

**MARITIME
REPORTER**
AND
ENGINEERING NEWS

www.marinelink.com

Gulf of Mexico
Now What?

Containershipping

Ready for the 13,000 TEU Boxship

Government Update

California: The Incredible Green Hulk



Karl Senner, Inc. extends our sincere concern and sympathy to our customers and employees that have sustained personal and property loss due to Hurricane Katrina.

Karl Senner, Inc. is fortunate to announce that our facility located at 25 W. 3rd Street in Kenner, LA did not sustain any serious damage due to Hurricanes Katrina and Rita. All offices, parts inventory warehouses and general shop areas are free from damage and "did not incur any flooding". We invite our customers to contact us at our office with any questions and/or concerns.

In the aftermath of Hurricane Katrina, lack of telephone communications and electricity posed a problem, but with the hard work and diligence of KSI employees, we remained "up and running" during the course of our recovery.

REINTJES
MARINE GEARBOXES

BERG PROPULSION
CONTROLLABLE PITCH PROPELLERS
AND BOWTHRUSTERS

Steerprop
AZIMUTH PROPELLERS

Rexroth
Bosch Group

SALES, PARTS, SERVICE • 500 H.P. TO 20,000 H.P.



Karl Senner, Inc.

WEST COAST
Karl Senner, Inc.
12302 42nd Drive S.E.
Everett, WA 98208
Mr. Whitney Ducker
(425) 338-3344

NEW ORLEANS
Karl Senner, Inc.
25 W. Third St.
Kenner, LA 70062
(504) 469-4000
Telefax: (504) 464-7528

Visit our website at <http://www.karlsenner.com>
E-mail address: service@karlsenner.com • sales@karlsenner.com • parts@karlsenner.com

ACCESS THE ENTIRE WORLD WITH ONE CD

18,000 +

With C-MAP/Commercial's CM-93 electronic chart database, you receive global coverage on one CD. Our 18,000+ electronic charts make navigating commercial vessels easier and safer than ever. CM-93 gives you the most up-to-date electronic charts you'll need on every port and every harbor in the world.

on-demand

CM-93 provides daily chart corrections instantly via the Internet or e-mail. Our dedication to providing you the latest information not only includes chart updates, but also worldwide weather services.

thousands

Current North American customers...

- US Army • US Navy • Carnival Cruises • Celebrity Cruises
- Holland American Line • Princess Cruises • Royal Caribbean Cruises • Alaska Tanker Company • Crowley Petroleum Transport
- Polar Tanker • Teekay Shipping • APL • Matson Navigation
- And Many Others

CM-93/3

...using CM-93 based systems by:

- Raytheon Marine • Sperry Marine • Kelvin Hughes • Klein Navigation • STN Atlas • Furuno • JRC • And Others

Select a navigational system with C-MAP CM-93/3 compatibility, and you'll be navigating with confidence! Call for product information.



508.477.7537 • commercial@c-map.com
www.c-map.com • Cape Cod, MA

Contents

Government Update

17 The Incredible Green Hulk

Dennis Bryant sheds light on severe new discharge restrictions that will affect nearly every large vessel calling on California.

Legal Beat

19 Spector vs. Norwegian Cruise Lines

William France discusses the effects of the Americans with Disabilities Act case will have on the maritime industry.

Investment in Design

30 The 13,000 TEU Containership

Plans for a mammoth new 13,000-TEU containership are now on the board. — by David Tinsley

Gulf of Mexico Resources Guide

37 The Recovery Begins

On the heels of two devastating hurricanes, Don Sutherland visited the region to report in pictures and words the gargantuan task ahead.

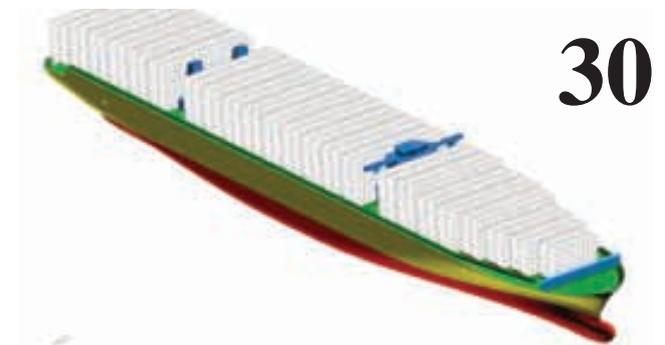
49 Products & Services Directory

61 Southern Hospitality in the Bronx

What does a professor with no facilities or students do? Dr. Bahadir "Baha" Inozu ended up at SUNY Maritime College in New York, where he found a staff and infrastructure to get his teachings back on track.



17



30



37

MARITIME REPORTER

AND
ENGINEERING NEWS

NEW YORK

118 E. 25th St., New York, NY 10010
Tel: (212) 477-6700; Fax: (212) 254-6271
e-mail: mren@marinelink.com • Web: Internet: www.marinelink.com

FLORIDA • 215 NW 3rd St., Boynton Beach, FL 33435
Tel: (561) 732-1659 Fax: (561) 732-6984

Associate Publisher

Gregory R. Trauthwein • trauthwein@marinelink.com

Associate Editor

Jennifer Rabulan • rabulan@marinelink.com

Technical Editor • David Tinsley

Contributing Editor • Dennis L. Bryant
Senior Maritime Counsel, Holland & Knight

Editorial Consultant

James R. McCaul, president, International Maritime Associates

Editorial Intern

Kate Queram • queram@marinelink.com

PRODUCTION

Production Manager John Guzman • guzman@marinelink.com
Asst. Production Manager Irina Tabakina • tabakina@marinelink.com

ADVERTISING SALES

Senior Vice President, Sales
Rob Howard • howard@marinelink.com
Tel: (561) 732-4368; Fax: (561) 732-6984

Senior Vice President, Sales
Brett W. Keil • bkeil@marinelink.com
Tel: (561) 732-1185; Fax: (561) 732-8414

Vice President of Sales

Lucia M. Annunziata • annunziata@marinelink.com

Classified Ad Sales

Dale L. Barnett • barnett@marinelink.com
Tel: (212) 477-6700

Sales Administration Manager

Tina Veselov • veselov@marinelink.com

Sales Assistant

Rhoda Morgan • morgan@marinelink.com

Manager, Accounting Services

Esther Rothenberger • rothenberger@marinelink.com

Manager, Public Relations

Mark O'Malley • momalley@marinelink.com

Marketing Coordinator

Jocelyn Pearring • pearring@marinelink.com

Manager, Information Technology Services

Vladimir Bibik • bibik@marinelink.com

CIRCULATION

mrcirc@marinelink.com

PUBLISHERS

John E. O'Malley
John C. O'Malley • jomalley@marinelink.com

International Sales Operations

Managing Director, International Sales

TONY STEIN

12, Braehead, Bo'ness, West Lothian EH51 0BZ, Scotland, U.K.
Tel: +44 (0) 1506 822240; Fax: +44 (0) 1506 828085

Germany/Switzerland

TONY STEIN • stein@marinelink.com
Tel: +44 (0) 1506 822240; Fax: +44 (0) 1506 828085

Japan

KATSUHIRO ISHII
Ace Media Service Inc., 12-6, 4-chome, Nishiike, Adachi-ku, Tokyo 121,
Japan, Tel: +81 3 5691 3335; Fax: +81 3 5691 3336

Korea

JO, YOUNG SANG • biscom@unitel.co.kr
Business Communications, Inc., Rm 1232, Gwanghwamoon Officia Bldg.
163, 1-Ga, Shinmoon-Ro, Jongro-Gu, Seoul, Korea 110-999
Tel: +82 2 739 7840; Fax: +82 2 732 3662

Scandinavia

ROLAND PERSSON/roland@orn.se
ÖRN MARKETING AB, Box 184, S-271 24 Ystad, Sweden
Tel: +46 411-184 00; Fax: +46 411 105 31

CHARLES E. KEIL, Vice President, International Operations

215 NW Third Street, Boynton Beach, FL 33435
Tel: +561-732-0312; Fax: +561-732-8063
24-hr Tel/Fax: +561-998-0313; Mobile Tel: +561-716-0338
e-mail: ckeil@marinelink.com

ShipConstructor

Empowering AutoCAD

Z-Tech Indee
Robert Allan Ltd.,
Canada



GPA 640 PSV M/V Orleans
Guido Perla & Assoc. Inc.,
Bender Shipbuilding and
Repair Co. Inc., USA

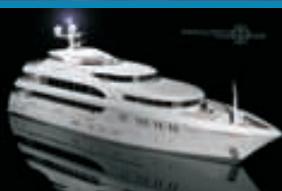


U.S. Navy Littoral
Combat Ship
Lockheed Martin Team:
Gibbs & Cox Inc.,
Marinette Marine Corp.,
Bollinger Shipyards Inc.,
USA



U.S. Coast Guard
Deepwater Program
National Security Cutter,
Northrop Grumman Ship
Systems Avondale
Operations, USA

VLCC/FPSO
Conversion
Mosocean/Xikomba
Dubai Drydocks, UAE



M/Y 50m Motor Yacht
Murray & Assoc. LLC,
Newcastle Marine Inc., USA

Staten Island Ferry
Marinette Marine Corp.,
USA



EUROPORT
MARITIME

Hall 1B, Booth #944

See you there!

Marintec
China

Booth #2H60

www.ShipConstructor.com

People who know Crowley know it takes more than a little ice to break our spirit.



In the summer of 1975, Crowley Maritime Corporation was about to embark on the biggest sealift in history. It was also the year when Alaska would experience the worst arctic ice conditions of the century. 47 Crowley barges were being cautiously towed from Anchorage up to the North Slope for the Trans-Alaskan Pipeline project. Arctic ice usually retreats for six weeks every summer, but this year it never happened. The determined fleet was forced to a standstill. Finally, after two months of waiting, the ice flows momentarily retreated. The Crowley crews immediately forged ahead. When the ice began to close in once again, it took four tugs to force each barge through.

It was slow, arduous work, but all 160,000 tons of cargo made it safely to their destination.

This is just one example of the perseverance of Crowley people. For over 50 years, we've been delivering much-needed fuel and cargo to remote villages in Alaska. We pioneered a way to install five massive oil exploration platforms in the middle of Lake Maracaibo in Venezuela. And when Hurricane Georges devastated Puerto Rico in 1998, we got our port facilities up and running the very next day to bring in critical relief supplies. But that's just the tip of the iceberg. To find out more, call 1-800-564-9251. Or visit us at www.mycrowley.com



Crowley. One exceptional company – run by one dedicated family for over 100 years.



CROWLEY[®]
People Who Know[™]

Liner Shipping • Worldwide Logistics • Petroleum & Chemical Transportation • Alaska Fuel Sales & Distribution • Energy Support • Project Management • Ship Assist & Escort • Ship Management • Ocean Towing & Transportation • Salvage & Emergency Response

© Crowley Maritime Corporation, 2005 CROWLEY is a registered trademark of Crowley Maritime Corporation

Circle 223 on Reader Service Card



A.P. Moller - Maersk A/S	34	ECB	26	MaK Deutschland	73	State Lands Commission	17
Aker Drilling	75	Ehler Shipping	75	Man B&W Diesel	11	State Water Resources Control Board	17
Aker Kvaerner	75	Electric Boat	25, 26	Marine Structure Consultants	34	Statoil ASA	28
Aker Kvaerner Subsea	75	Environmental Protection Agency (EPA)	18	Marine Systems	25	Stidd	12
Aker Yards	13, 36, 64	ESAB Welding & Cutting Products	65	Maritime Administration (MarAd)	26	STX Shipbuilding Co.	34
Albacore Research Ltd. (ARL)	36	Farstad Supply AS	36	Martime GmbH	11	SUNY Maritime College	26, 28, 61, 62
Alfa Laval	66, 67	Fassmer	75	Massachusetts Institute of Technology (MIT)	26	Swire Pacific Offshore Limited	11
Algiers	44, 45	Fire Department of New York (FDNY)	72	Mazagon Dock Limited	13	T&T Marine Salvage	
Allweiler AG	70	Fluid Power Solutions	70	MISC Berhad (MISC)	72	Tacoma Fire Department	9
American Salvage Association (ASA)	38, 40	GEBAB	11, 14	Mitsui O.S.K. Lines Ltd.	72	Technip Norge AS	75
American Waterways Operators (AWO)	26	General Dynamics	25, 26	Nanjing Tong Kah Shipbuilding	78	Technip Offshore Finland Oy	68
American Waterways Shipyard Conference (AWSC)	26	Germanischer Lloyd (GL)	30	National Shipbuilding Research Program (NSRP)	26	Teekay Shipping Corporation	34
Ameron International	71	Gladding-Hearn Shipbuilding	12	National Shipyard Association (NSA)	26	Teknotherm AS	36
APL	72	Grand Alliance (GA)	72	Naval Sea Systems Command (NAVSEA)	63	Texas A&M	62
Army Corps	39	Greater New Orleans Council of the Navy League	26	Navy League's Maritime Policy Committee	26	The Boston Pilots	12
Art Anderson Associates	9	Greek Merchant Marine Academy	26	Nicholls State	25	The New World Alliance (TNWA)	72
ASMAR Talcahuan Shipyard	75	GS-Hydro	68	Nicholson Steam Traps	69	The Seaman's Church Institute (SCI)	65
Atlas Incinerators	70	Gulf Repair	45	Nippon Yusen Kaisha (NYK)	72, 28	The Shipbuilders Council of America (SCA)	26
AVEVA	28	Hall & Stavert	12	NOAA	38, 39, 40	ThyssenKrupp Marine Systems	11, 14
Babson College	25	Hapag-Lloyd Container Line (HLCL)	72	Nordseewerke GmbH	11	Transocean Inc.	28
Bender Shipbuilding & Repair Co. Inc.	26	Healy & Baillie LLP	19	NorScan Offshore Ltd.	36	U.S. Army Corps of Engineers	63
Blohm+Voss	14	Holland & Knight	17	Northern Lights	12	U.S. Coast Guard	
BMT Nigel Gee and Associates	9	Hudong Zhonghua Shipyard	76	Northrop Grumman	64	U.S. Department of Homeland Security	9
Bollinger High Speed Vessels (BHSV)	25	Hydro	75	Norwegian Cruise Lines (NCL)	19, 20, 23, 24	U.S. Merchant Marine	25
Bollinger Shipyards, Inc.		Hyundai Heavy Industries	30, 32	Ocean Shipping Consultants	32	U.S. Navy	38, 40
Bugsier Reederei- und Bergungs-Gesellschaft mbH & Co. KG	12	Hyundai Merchant Marine	72	Oil and Natural Gas Corporation Ltd. (ONGC)	28	UltraJet	16
Bunker Logistics	34	IMO AB	71	Orient Overseas Container Line (OOCL)	72	Unitor Ships Equipment	36
C. Raymond Hunt Associates	12	IMT Marine Consultants Ltd.	11	Overseas Shipholding Group (OSG)	34	University of Michigan	62
Capstone Engineering Services, Inc.	72	International Maritime Organization	67	Palfinger Marine	16	University of New Orleans (UNO)	61, 62
Capstone Software Systems, Inc.	72	Island Offshore Group	13	Parakou Shipping Ltd.	34	University of Tennessee	25
Caterpillar	73	Istanbul Technical University (ITU)	62	Plant Technologies	66	Verreault Navigation Inc.	28
Chand	25	Jensen Maritime Consultants Inc.	13	Quick Repair	44, 45	Viking	71
Chemline Inc.	69	JJ Sietas KG	75	Reintjes	78	Vosper Hovermarine	9
Chevron	63	Johns Hopkins University	26	Rensselaer Polytechnic Institute (RPI)	61	Vosta LMG	76
Chilean Coast Guard	75	K. Damen Europe b.v.	12	Robert Allan Ltd.	72	VT Halter Marine, Inc.	26
China State Shipbuilding Corp.	78	Kaplan	78	Rolls Royce	13	Waigaoqiao Shipbuilding	78
Chinese Harbor Authority	76	Kawasaki Kisen Kaisha	78	Scania	16	Wal-Mart	46
City University, London	26	Keppel FELS	34	Seattle Fire Department	13	Wartsila Corporation	34, 66, 67, 72
Columbia University	26	Kobelt	16	Society of Naval Architects and Engineers (SNAME)	26, 62	Wartsila Corporation	75
CTMA Traversier Ltee.	28	Labroy Shipyard	11	Solstad Offshore ASA	36	Wartsila Lips	75
Cummins	78	Lloyd's Register (LR)	32, 72	South Boats	16	Westfalia Separator	67, 68
Dakota Creek Industries	13, 14	Lloyd's Register Capstone, Inc.	72	Southeast Shipyard Association	26	Wilhelmsen Maritime Services	36
DOF ASA	36	Louisiana State University	61	Southern Motel	46	Wooster Hydrostatics	70
Donjon Marine	40, 42	Maine Maritime Academy	25	Spence Engineering Company, Inc.	69		

A Single Source For GENUINE PARTS & AUTHORIZED SERVICE

Motor-Services Hugo Stamp is an authorized distributor and service repair facility for **MAN**, **NAPIER** and **KBB** turbochargers. We are committed to making sure that you get genuine parts and quality service.

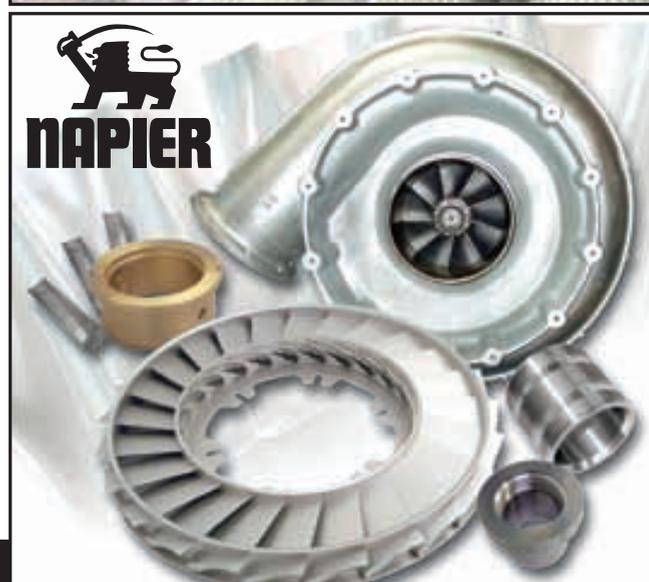
MSHS carries a wide range of MAN rotor assemblies from NA34 to NA70. On site, **MSHS** has access to one of the largest MAN turbocharger parts inventories in the Americas.

MSHS also maintains a comprehensive NAPIER inventory including complete cartridges for NA295 and 355 as well as 297, 357 and 457 turbochargers. For specific turbocharger information, visit www.mshs.com. Qualified **MSHS** service engineers overhaul and repair turbochargers and engines on marine and industrial applications worldwide. To learn more about the products and services we offer, call **954-763-3660** or toll free **800-622-6747** or email info@mshs.com



MOTOR-SERVICES HUGO STAMP, INC.
AUTHORIZED DISTRIBUTORS & SERVICE CENTER

3190 SW 4th Avenue, Fort Lauderdale, Florida 33315 • www.mshs.com



Circle 266 on Reader Service Card

Hard work?



After the main engine, you rely on each drive-line component to keep going - torsional coupling, gearbox, shafting, bearings and propeller - as well as the control systems.

ZF Marine offers a wide range of gearboxes for all types of vessels and Diesel engines from 10 to 10,000 kW, together with controllable pitch or fixed pitch propellers and associated drive-line components.

Purchasing from a single source, has obvious technical and commercial advantages. You can rely on ZF Marine's expert assistance throughout the ship design phase, ensuring a fully integrated propulsion system which exactly meets your requirements and provides optimum ship performance. Also, throughout the ship's working life, ZF Marine's worldwide service network is at your disposal around the clock.

ZF Marine supplies high quality, reliable equipment - which ship owners and crew need for the safe and efficient operation of their vessel under the hardest operating conditions.

Minimum down-time, means maximum profits!

ZF Industries, Marine Division

3131 SW 42nd St.,
Ft. Lauderdale, FL 33312
Tel: 954 581-4040
Fax: 954 581-4078

www.ZF-Marine.com

ZF Marine keeps you going!

Circle 310 on Reader Service Card

Driveline and Chassis Technology



Editor's Note

Enduring a historic October rainfall in New York, someone recently had the audacity to complain about the 10 consecutive days of rain and cold. Of course, the complainer was me, and as soon as the words crossed my lips my thoughts turned to the stories and images coming out of the Gulf of Mexico region, gratis of a double smack from hurricanes Katrina and Rita.

Putting this disaster in perspective is easily the most difficult task in my 13 plus years with *Maritime Reporter*. Simply put, the losses are incalculable, though I'm quite certain a number of insurance companies are burning the midnight oil trying to do just that. Anyone who knows the Gulf of Mexico realizes that the maritime and offshore energy businesses in Texas, Louisiana, Mississippi and Alabama are not merely businesses, they are the very core threads that weave the cultural and economic fabric of the region. For every large corporation in the shipbuilding and offshore oil business that announced losses due to the storms, there are perhaps a dozen other companies that were simply lost.

To get the story, we sent **Don Sutherland** — a long-time contributor to *MR* sister publication *MarineNews* — to the region for a week after Katrina hit. Logistics hell, combined with the arrival of hurricane Rita, stretched his one-week tour into a three-week journey. Along the way Don took many pictures — about 60 gigabytes by his best estimate — and met with a good number of locals and outsiders, both marine and non-marine, to gather information for his article, which starts on page 37 of this edition. Anyone who has read Don's regular work in *MarineNews*, though, knows that he is rarely at a loss for words. That said, part of his coverage is in the November edition of that publication. Along his "On the Road with Charles Kuralt"-esque travels, Don took to the air and water, nearly was left ashore by his ride, heard many great stories that unfortunately are not for publication, and enjoyed incredible generosity and assistance from colleagues I've know for years. Most of all, Don got the story.



(I really hate to single anyone out, as Don received assistance from innumerable individuals and companies, but a special debt of gratitude in this case is given to Robert Socha and the entire Bollinger Shipyard crew.)

www.marinelink.com

trauthwein@marinelink.com

On the Cover



On the Cover: Pictured on this month's cover is New Orleans after Hurricane Katrina blew through. (Photo Credit: Don Sutherland)

- 66 Pipes, Pumps & Valves
- 73 China
- 82 Buyer's Directory
- 88 Ad Index
- 89 Classifieds

Subscriptions: One full year (12 issues) \$28.00 in U.S.; outside of U.S. \$52.00 including postage and handling. For subscription information, call 212-477-6700; fax: (212) 254-6271; or e-mail: mrcirc@marinelink.com

MARITIME REPORTER

AND
ENGINEERING NEWS

www.marinelink.com

ISSN-0025-3448
USPS-016-750

No. 11

Vol. 67

118 East 25th Street, New York, NY 10010
tel: (212) 477-6700; fax: (212) 254-6271

Founder: John J. O'Malley 1905 - 1980
Charles P. O'Malley 1928 - 2000

Maritime Reporter/Engineering News is published monthly by Maritime Activity Reports, Inc. Mailed at Periodicals Postage Rates at Waterbury, CT 06701 and additional mailing offices.

Postmaster send notification (Form 3579) regarding undeliverable magazines to Maritime Reporter/Engineering News, 118 East 25th Street, New York, NY 10010.

Publications Mail Agreement No: 40024966
Return Undeliverable Canadian Addresses to
Circulation Dept. of DPGM
4960-2 Walker Road
Windsor, ON N9A 6J3

Publishers are not responsible for the safekeeping or return of editorial material. ©2005 Maritime Activity Reports, Inc.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means mechanical, photocopying, recording or otherwise without the prior written permission of the publishers.



Business Publications
Audit of Circulation, Inc.

Coming in *Maritime Reporter & Engineering News*

December 2005 Great Ships of 2005

MR's annual review of the best ships delivered in 2005, with an emphasis on the companies that built and supplied them.

January 2006 Passenger Vessel Annual

Marine Propulsion Directory • Marine Interior Design • Marine Finance & Leasing • Australia

Looking for *service* reliability, we deliver it.
ABB Turbochargers

ABB

New York/NJ, Miami, Houston, Seattle/Tacoma, Los Angeles — email: turbochargers@us.abb.com

Circle 202 on Reader Service Card

The most recognized name in Radar now has new family members.

FURUNO



New! FAR21x7 Radar and FAR28x7 Radar

- 12kW, 25kW X-Band or 30kW S-Band
- Designed to meet IMO standards
- FAR21x7 - 20.1" Color TFT LCD display
- FAR28x7 - 23.1" Color TFT LCD display
- 100 target ARPA auto plotting/tracking
- Display 1,000 AIS equipped targets
- Target Fusion merges ARPA & AIS targets
- Variety of antenna array options
- Network up to four Radars using Ethernet
- Radar Overlay on Furuno or Navionics charts
- Also available in Black Box version (non-IMO compliant)

Introducing the new FAR21x7 & FAR28x7 Radar Series

Furuno's Deep Sea Radars are some of our best selling radars in the commercial market. Simply walk down any dock, in any harbor and you will see the Furuno antennas proudly spinning. Why are they so popular? Because Furuno packages over 50 years of experience, reliability and flexibility into every single unit. When you have Furuno on your vessel, you can feel confident that you will reach your destination no matter what mother nature dishes out. And in true Furuno style, we also offer these Radars as Non-IMO Black Box units. This means you can supply any SXGA monitor you want or use one of our new sunlight viewable marine monitors. So whether you are using Radar for collision avoidance, navigation or monitoring flocks of birds for fishing, choosing Furuno is the easiest step.

RADAR

FISH FINDERS

SONAR

NAVIGATION

COMMUNICATION

AUTOPILOTS

www.Furuno.com

Circle 241 on Reader Service Card

FURUNO®

The most trusted name in marine electronics!

Navy Awards Contract for LCS Construction

The Navy has awarded General Dynamics - Bath Iron Works a \$223,262,430 option exercise contract modification for detailed design and construction of the second Littoral Combat Ship (LCS).

The General Dynamics' team began construction in October and ship deliv-

ery is scheduled for 2007. The Navy plans to build four Flight 0 LCS. The Navy has an option to build another from General Dynamics. Under a separate contract, Lockheed Martin will also build up to two of its LCS variant. General Dynamics - Bath Iron Works is the prime contractor. Major subcontractors who will perform part of the effort include Austal USA, in Mobile, AL;

Maritime Applied Physics Corporation (MAPC) in Baltimore, MD; General Dynamics Advanced Information Systems (AIS) in Pittsfield, MA; and BAE in Baltimore, MD.

LCS is an innovative combatant designed to combat challenging shallow-water threats in coastal regions, specifically mines, diesel submarines and fast surface craft.

Coastal Marine Acquires Assets of McElroy/Catchot

Coastal Marine Equipment, Inc. (Gulfport, Miss.), manufacturers of marine deck machinery and industry leader in providing machinery for the double hull new build and retrofit barge industry has acquired the assets of McElroy/Catchot Winch Company, Inc. (Ocean Springs, MS, formerly McElroy Machine & Mfg. Co., Inc., established 1915). Coastal Marine intends to complement its complete line of marine deck machinery by providing parts, service and technical support for all of the products, which previously made up the McElroy/Catchot product line.

New York Water Taxi Takes Delivery

After delivering a new passenger catamaran for New York Water Taxi in June, Gladding-Hearn Shipbuilding delivered a sistership, the Sam Holmes, for shuttle service on New York Harbor. The bright yellow, all-aluminum water taxi measures 72 ft. (22 m) long and 27.3 ft. (2.3 m) abeam, and draws 4 ft. (1.3 m). It is USCG-certified to carry 149 passengers but is limited to only 100 passengers when operating at New York City water taxi docks.

The vessel is powered by two U.S. EPA Tier 2-compliant Cummins QSK 19-M diesel engines, each rated at 800 Bhp at 2,100 rpm. The engines drive five-bladed NiBrAl Bruntons propellers via Twin Disc MGX 5145SC "Quick Shift" gearboxes and EC-300 control systems to improve the vessel's maneuverability and safety when bow landing.

California Clean Coast Act

The State of California enacted the Clean Coast Act. This law, which comes into effect on January 1, 2006, will prohibit oceangoing ships from conducting onboard incineration while operating within three miles of the California coast. The law will also prohibit oceangoing ships from releasing hazardous waste, other waste, sewage sludge, and oily bilgewater into marine waters of the state. If there is a release of such material from an oceangoing ship into marine waters of the state, the owner or operator must, within 24 hours, notify the State Water Resources Control Board. Upon the departure of an oceangoing ship from its first port or place of call in California in 2006, the master, owner, or operator must maintain on board selected information regarding the ship, its graywater and blackwater systems, and California port of call information.

(Read more about the new regulations on page 17)



CATEGORY 5™
MARINE CYLINDERS
Gamble in Vegas... NOT OFFSHORE!

DESIGN STANDARDS

- ASME Sec VIII, Div.1
- ABS
- Det Norske Veritas
- API
- UK-DEn
- USCG
- DnV
- LLoyd's
- CFR 46

Section 58.30-30 Cylinders
Section 58.30-25 Accumulators
Section 54 Energy Storage Devices

HYDRA-DYNAMICS INC.
19 Wrenfield Place
The Woodlands, TX 77384
www.hdieng.com
sales@hdieng.com
Phone 936-273-2882
Fax 936-273-2883

Contact: Carter Miller

© 18Feb2005

Tacoma Fireboat Refit

Art Anderson Associates finalized a contract with the City of Tacoma to provide naval architecture and engineering services for the complete renovation and refit of the Tacoma Fire Department's 30-knot SES (surface effect ship) fireboat Commencement. The contract is the result of a grant provided under the U.S. Department of Homeland Security's Assistance to Firefighters Grant Program. Art Anderson Associates will provide comprehensive engineering and design services for the vessel's propulsion, pumping, hydraulic,



electrical and command and control systems, and has brought in the SES expertise of BMT Nigel Gee and Associates for the modernization and rebuild of the vessel's SES-related structural and mechanical systems. The contract also includes an option for Art Anderson Associates to serve as the owner's representative throughout the bid and construction phase of the rebuild, providing the City of Tacoma with technical support during bid and proposal review, contract negotiation and the construction process. Upon completion of the refit and renovation, Commencement will be a Class-A fireboat with an expected service life of an additional 20 years. Commencement was built in 1982 by Vosper Hovermarine as a multi-purpose SES fireboat operated by a crew of three, and packs a lot of firefighting

capabilities into a small, fast package. It has two 445 bhp marine diesel engines powering two 19-in. propellers and a 345 bhp marine diesel engine that pro-

vides power to six 24-in. aluminum alloy fans, which, when engaged, maintain an air cushion beneath the vessel, allowing it to achieve speeds of up to 30 knots. The vessel pumps water at 5,500 gpm through titanium piping and five

fire monitors. Upon completion, the vessel will have more horsepower, improved firefighting capabilities, a modern command and control system and a new emergency medical unit.

Circle 1 on Reader Service Card

EVERY™ RUN.



DURABLE. ECONOMICAL. SERVICE AT EVERY PORT.

This is what you expect from a capable supplier. Cummins Marine understands that every run is critical to keep your business on track. That's why we offer complete propulsion, generating set and auxiliary power solutions from 37-1900 kW, designed specifically for the challenges of marine applications. Plus, our worldwide support network is staffed by marine-trained technicians to keep you running strong. For more information, visit our web site at www.cummins.com or call 1-800-DIESELS (1-800-343-7357).

Cummins
Marine

©2005 Cummins Marine, A Division of Cummins Inc., 4500 Leeds Avenue – Suite 301, Charleston, South Carolina 29405, U.S.A.

Circle 225 on Reader Service Card

Steel SWATH Hull



For Sale!
\$3.5 million - all equipment included

Will sell partially completed hull, or will complete vessel to your engineered specifications.



8500 Heckscher Drive • Jacksonville, Florida 32246
ph: (904) 251-1545 fax: (904) 251-3500

Ideal Vessel For:

**Offshore Casino
Gulf Offshore
Research Vessel
Cruise Ship
and more...**

Principal Particulars

Length Overall	237 ft. (72.2m)
Breadth	95 ft. (28.9m)
Transit Draft	12.5 ft. (3.8m)
Operations Draft	21.5 ft. (6.6m)

Transit Speed	12 knots
Installed Power	4 x 1045 kw



Circle 214 on Reader Service Card

ALARM PANELS • SWITCHBOARDS • BEARING TEMPERATURE MONITORING • THROTTLE CONTROLS • STEERING GEAR
BOILER AUTOMATION • PROPULSION CONTROL • CRANE CONTROLS • MIMIC PANELS • FIRE CONTROL • TANK GAUGING

Marine engineering and automation
Specializing in retrofits and repairs
Since 1987

Call today to discuss
your requirements.



TECHNICAL MARINE SERVICE, INC.

Phone: 800.239.9037

Email: sales@tms-usa.com

Technical Marine Service, Inc. is a registered Small Business U.S. Government contractor, CAGE 0U8R1

Circle 300 on Reader Service Card

First Order for New Containership Series

Nordseewerke GmbH, a company of ThyssenKrupp Marine Systems, received two new orders for a 3,400 TEU container ships. These orders mean the development, design and building of a new generation of compact container ships with a capacity from 3,100 to 3,700 TEU. The contractor of this order is GEBAB, which is based in Meerbusch. A total of 28 containerships have been delivered to GEBAB since 1987, and 11 additional ships are still to be built by the ThyssenKrupp Marine Systems' shipyards based in Emden, Kiel and Hamburg.

The owner of the two new ships is the shipping company Martime GmbH in Elsfleth. The new ships with the yard numbers 556 and 557 will be built according to Germanischer Lloyd regulations and feature the following main technical data:

Containership Main Particulars

Length, o.a.	..... 748 ft. (228 m)
Breadth, molded	..... 105.6 ft. (32.2 m)
Depth, molded	..... 60.9 ft. (18.5 m)
Deadweight tons	..... 42,250
Container capacity	..... 3,414 TEU
.....incl. 500 connections for refrigerated containers	
Propulsion 100% MCR	..... 28,880 kW at 104 rpm
Service speed approx.	..... 23.75 knots

Circle 2 on Reader Service Card

Swire Pacific Offshore Selects MAN B&W

MAN B&W Diesel has been awarded the contract to supply complete twin-screw medium speed propulsion packages for six Anchor Handling Tug Supply Vessels (AHTS). The vessels will be built by Labroy Shipyard, Batam, Indonesia (Labroy Shipbuilding and Engineering Pte Ltd., Singapore) and will be operated by Swire Pacific Offshore Limited, Singapore. The first vessel is expected to be launched in the beginning of 2007, and the following vessels are planned to follow at two-month intervals. The 120-ton bollard pull AHTS vessels have been designed by the U.K.-based IMT Marine Consultants Ltd.

A total main engine output of 2 x 3,285 kW will supply the propeller thrust, for a bollard pull of more than 120 metric tons. The ship service speed is optimized for 13.5 knots. The MAN B&W Diesel twin-screw Alpha Propulsion System type 9L27/38-VBS, which has been specified for the new-buildings, include:

- Two MAN B&W 9L27/38 engines, fitted with full engine power PTO and integrated journal bearing at the front-end, driving a fire-fighting pump arrangement.

- Two MAN B&W Alpha AMG55 gearboxes, type 57VO55EV, with a speed reduction ratio of 800:141. Additionally, each gearbox is equipped with a 1,800 r/min PTO shaft for a 1600 kVA shaft alternator.

- Two MAN B&W Alpha type

VBS980 four-bladed controllable pitch propellers. The 3,800 mm ducted CPP systems are complete with tail, intermediate shafts and bearings, stern tube equipment, and MAN B&W fixed propeller nozzles type AHT.

Circle 3 on Reader Service Card

120 ton bollard pull AHTS Main Particulars

Length oa	..... 216.5 ft. (66 m)
Length bp	..... 187 ft. (57 m)
Breadth	..... 52.5 ft. (16 m)
Deadweight	..... 2,100
Propulsion	2 x MAN B&W 9L27/38-VBS packages
Classification	.ABS Class +A1, Offshore Support & Towing Vessel, +AMS, + ACCU



**“TO FIND THE FINEST
OCEANGOING VESSELS,
SOMETIMES IT’S BEST
TO HEAD UPSTREAM.”**

- Duff Hughes, President, The Vane Brothers Company

Jeffboat, strategically located on the Ohio River in Jeffersonville, Indiana, has been designing and constructing vessels for 67 years. Over 10,000 vessels to be exact, all created with heavier welds, wheelabrated steel and superior coatings. At Jeffboat, not only do you get a technologically advanced oceangoing vessel at reasonable labor cost, you also get a dedicated project team. So when you look to build an oceangoing vessel, just look to the Ohio.

JEFFBOAT

Circle 253 on Reader Service Card

Boston Pilots Takes New Boats

The Boston Pilots has taken delivery of two Chesapeake class pilot boats from Gladding-Hearn Shipbuilding, Duclos Corporation. The shipyard's

new class of launches has also been built for the Delaware, Virginia, Maryland, New Orleans, Tampa Bay, and Portland, Maine pilots.

Designed by C. Raymond Hunt Associates in Boston, the all-aluminum



SEAARK MARINE

FAST, DEPENDABLE, DURABLE
FOR ALL YOUR PATROL BOAT NEEDS

GSA Schedule
ALL BOATS AVAILABLE ON GSA CONTRACT

P.O. BOX 210 • MONTICELLO, AR, USA 71657
PHONE: (870) 367-9755 • FAX: (870) 367-2120
WWW.SEAARK.COM

Circle 287 on Reader Service Card

launches measure 52.6 ft. (16 m) overall, with a 17-ft. (5.2 m) beam and 4.8 ft. (1.5 m) draft, and top out at 25 knots. Named Mystic and Chelsea, the boats are powered by twin Luger 6140AL2 diesel engines, each delivering 600 bhp at 2,100 rpm, with Twin Disc MG5114A gear-boxes. The engines turn two five-blade Hall & Stavert NiBrAl propellers. Each launch is equipped with a 12 kW Northern Lights generator.

Safety equipment includes heated handrails and decks to prevent ice build-up in the winter, and wide side-decks. At the transom are a throttle and steering controls and a winch-operated U-frame over a recessed platform for pilot rescue operations.

Each wheelhouse and forecandle is outfitted with Stidd reclining seats, finished galley, and enclosed head. The forecandle's berthing areas are isolated from the noise and traffic of the galley and head, with noise levels below 77 dba, and include heating and air-conditioning.

Circle 4 on Reader Service Card

New Tug for Bugsier



Bugsier Main Particulars

Length, o.a.	100.7 ft. (30.7 m)
Length, waterline	94.8 ft. (28.9 m)
Breadth, o.a.	38.7 ft. (11.8 m)
Depth hull, molded	13.3 ft. (4.05 m)
Draft, max.	21 ft. (6.4 m)
Speed	12.3 knots
Class	Germanischer Lloyd

The Dutch Shipyard K. Damen Europe b.v. delivered a tractor tug to Bugsier-Reederei- und Bergungs-Gesellschaft mbH & Co. KG, Hamburg. The tug, called Bugsier 1, is fitted with twin azimuth thrusters, is suitable and licensed for use as harbor assistance tug.

The tugboat is designed to meet a bollard pull of at least 65 tons with two Ulstein Aquamaster rudder propellers

OLYMPUS
Your Vision, Our Future

Innovation in NDT™

Accurate Thickness Measurements of Steel Hulls

MG2 Series
These affordable and easy-to-use pocket-sized thickness gauges offer practical performance features.

No Need to Remove Paint!
Thru-Coat®
This patented technology displays coating thickness and true metal thickness, using a single backwall echo. Available on the 37DL PLUS and most MG2 models.

37DL PLUS
Advanced thickness gauge combines powerful thickness measurement features with sophisticated data acquisition and output capabilities.

www.panametrics-ndt.com
pana@olympusNDT.com
Telephone: 781-419-3900
Fax: 781-419-3980

PANAMETRICS-NDT™
Nondestructive Testing Products

Circle 274 on Reader Service Card

type US 305 FP supplied by Rolls Royce and two Deutz main engines with a total output of 4,050 kW. However, during bollard pull trials the tug reached of bollard pull of 60 tons. During the coming months a modification will be prepared and implemented to overcome this deficiency in bollard pull. Meanwhile, Bugsier will take Bugsier 1 in operation.

Circle 5 on Reader Service Card

Navy Orders Six Subs

A contract was signed in New Delhi for the construction of six Scorpene submarines, that will be built in Mazagon Dock Limited shipyards, in Mombay. The French-Spanish consortium will provide engineering, technical assistance, training and specific equipment, with Navantia responsible for the aft parts of the six submarines, as it is been done in other contracts as Chile and Malaysia. The six subs are slated for delivery in 12 years.

Circle 6 on Reader Service Card

Submarine Main Particulars

Length	217.8 ft. (66.4 m)
Diameter of resistant hull	20.3 ft. (6.2 m)
Surface displacement	1,550 tons
Submerged displacement	1,705 tons
Maximum speed, immersed	20.5 knots
Maximum speed, surface	11 knots
Autonomy	45 days
Crew	31

Aker Yards to Build PSV for Island Offshore

Aker Yards signed a contract with Island Offshore VI K/S, a company within the Island Offshore Group in Ulsteinvik, Norway, to deliver a UT 776 E platform supply vessel. The value of the contract is \$36.4 million. This is the 16th contract between the shipowner, Island Offshore Group in Ulsteinvik and Aker Yards. The hull for the PSV will be built in Romania. Delivery of the vessel is scheduled for March 2007.

Circle 7 on Reader Service Card

Seattle's New Fireboat: Designing for 50 Years

Traditionally, fireboats have been designed to function as floating water pumps to fight fires in wooden docks and burning ships. A modern port like Seattle has much more complex requirements. While some wooden piers remain, marine fires are more likely to involve chemicals and other materials that can cause significant threats to people and the environment. An effective modern fireboat program must also take into account the particular natures of the city of Seattle's waterways, which include separate saltwater and freshwater areas. In 2003, Seattle voters approved the Fire Facilities and

Emergency Response Levy program, which included a marine program that would build a large new fireboat; refurbish an existing fireboat and build a third small quick response boat.

Seattle currently has two fireboats. The 97-ft. (29.5 m) aluminum-hulled Chief Seattle was built in 1983 and has the capacity to pump water at 7,500 gpm and 800 gallons of foam. The 123-ft. (37.5 m) steel hulled Alki, built in 1928 pumps 16,300 gpm and 1,000 gallons of foam. One of these, the Alki, is based inside the Ballard Locks while the other is posted to Elliot Bay, which includes the deep sea docks, the Duwamish River estuary and an extensive area of heritage waterfront with piers and buildings

In 2002, following a number of significant marina fires, the Seattle Fire Department reviewed the adequacy of its marine equipment operations. The analysis showed that Seattle's fireboats should have greater pumping capacity; accommodate EMS, rescue, salvage, and environmental remediation functions; and be able to pump water to land fires should water mains break during earthquakes or other disasters.

This report led to the development of the marine component of the 2003 levy proposal. It provided for a sweeping new set of plans to enhance the existing

fireboat fleet. The existing fireboat Chief Seattle systems, engines and pumps will be upgraded to pump 10,000 gpm and have the ability to reach an average top speed of 18 to 20 knots. The overhaul should extend the Chief Seattle's service life by 20 years. The 78-year-old Alki will be retired from service. For quick response on either side of the Ballard Locks the city is building a small, 26-knot, 50-ft. (15.2 m) fireboat with a 4,000 to 5,000 gpm capacity.

The most significant item in the levy's marine program is a new large platform fire boat capable of pumping 20,000 gpm or more to protect the salt water port area outside the Ballard Locks. With the passage of the levy, Jensen Maritime Consultants Inc. was contracted to develop a design that would meet an extensive set of criteria. The build contract has been awarded to Dakota Creek Industries of Anacortes, Washington.

The boat that evolved on the Seattle company's boards has exceeded most of the prime criteria. The 108 x 26.8 ft. (32.9 x 8.2 m) hull has a 15-ft. (4.6-m) depth with a 10-ft. (3.1-m) fully loaded draft and a 390 long ton displacement when fully loaded. Like a land-based pumper truck, the boat will pack formi-

World Class Quality North American Location



Irving Shipbuilding Inc.

Halifax Shipyard - East Isle Shipyard - Shelburne Ship Repair - Woodside Industries

P.O. Box 9110. 3099 Barrington Street, Halifax, NS, Canada B3K 5M7
Phone: +1 (902) 423 9271 Email: marketing@irvingshipbuilding.com

www.irvingshipbuilding.com



Circle 243 on Reader Service Card

dable horsepower with a pair of DD MTU 12V-4000, 8V4000 M70 main engines generating 1,550 bhp each at 2,000 rpm. A pair of the same engines will be utilized as pump engines. Each pump engine will drive a pair of FFS SFP250x350, 5,000 gpm fire pumps for a total in excess of 20,000 gpm.

This can be directed on a fire through one 7,000 gpm (1,590cu. m./hr.), two 5,500 gpm (1,250 cu. m./hr.), two 3,000 gpm (680 cu. m./hr.) and two 1,000 gpm (230 cu. m./hr.) fire monitors as well as manifolds with multiple hose connections forward and aft. The boat will have a 100 hp stern thruster for enhanced

maneuvering when fighting fire. A 200 hp bowthruster is sized to offset the small side force of the bow monitors. However, the vessel is designed primarily to fight fire bow first.

The new boat will also have tankage for 6,000 gallons (22,710 liters) of foam (which can be directed at a chemical

fire. All monitors will have foam capability as well as remote flow adjustment down to 25 percent of maximum flow. The manifolds will have foam and compressed air connections. The boat will also be fitted with a deluge system for vessel protection and wash down.

Fuel tankage will be 20,940 gallons (79,260 liters) and fresh water will be 1,200 gallons (4,540 liters). With the two pump engines running at full capacity, and the main engines running at 50 percent capacity for maneuvering, as they would be when fighting fire, this would give the fireboat roughly a 72-hour endurance. Fully loaded, the boat will make greater than 14 knots. With the contract awarded to Dakota Creek Industries late in September, delivery is scheduled for November 2006.

Circle 8 on Reader Service Card

2,700 TEU Containership Launched at B&V

A 2,700 TEU containership built at Blohm+Voss, which belongs to ThyssenKrupp Marine Systems, was christened Cosco Panama. Godmother of the ship was **Anja Berlien**, wife of **Dr. Olaf Berlien**, Chairman of the Board of Directors at ThyssenKrupp Technologies AG. GEBAB (Gesellschaft



für Konzeption und Betreuung privater Investitionen mbH, Meerbusch) is the ship's owner; Maritime GmbH is the ship's manager. Cosco Panama is particularly significant in that it is likely the last time a containership will be launched from the Blohm + Voss yard. ThyssenKrupp Marine Systems AG made the strategic decision to have Blohm + Voss concentrate on the construction of large-scale yachts and naval vessels.

Circle 9 on Reader Service Card

Containership Main Particulars

Length, o.a.	707 ft. (215.5 m)
Width on frames	97.8 ft. (29.8 m)
Depth	54.1 ft. (16.5 m)
Tensile draft	37.9 ft. (11.6 m)
Design draft	33.1 ft. (10.1 m)
Load-bearing capacity	37,950 tdw
Container capacity	2,702 TEU
Diesel engine	MAN/B&W 7L70MC/C
MCR	21,770 kW at 108 rpm

ADVERTORIAL

Columbus Software Simplifies Cutting Machine Programming

Columbus integrated flexible programming software is the first cutting software package developed and maintained by a cutting machine manufacturer. Designed by ESAB and proven in installations around the world, this Windows®-based

package provides simple set-up and full process control for every cutting machine in your shop. Columbus supports straight and bevel cutting for oxyfuel, plasma, waterjet, and laser processes, along with all current marking devices. A simple graphic interface allows easy programming without knowledge of machine codes. New post processors can be added with

ease. An estimating module simplifies costing and customized reporting. For more information, contact us toll free at 1-800-ESAB-123 or www.esabcutting.com.

ESAB Innovations Enhance Plasma Cutting



ESAB invented plasma cutting in the late 1950s and we've never stopped developing ways to improve plasma cutting capabilities. With features such as a choice of conventional and Precision Plasmarc™ torches, a patented single torch system for cutting and marking, and programmable cutting parameters, ESAB makes plasma cutting simpler, more automated, and able to produce consistent cut quality every time, regardless of operator skill level. ESAB's exclusive Smart Flow system for conventional plasma and Integrated Electronic Flow Control for Precision Plasmarc use proportional valves controlled by the CNC for fast, accurate gas switching and regulation. These systems shorten preflow times by as much as 300 percent to increase production and reduce gas costs. For more information, contact us toll free at 1-800-ESAB-123 or www.esabcutting.com.

ESAB Takes Oxyfuel Cutting to New Heights of Productivity



ESAB's patented Automatic Flame Control automates oxyfuel piercing, cutting and torch balancing functions. The system automatically adjusts the flame through the CNC without manual input to achieve optimum pre-heat temperature for piercing. The system features internal ignition that is reliable and requires less maintenance. It will automatically re-ignite when necessary. Automatic Flame Control allows faster preheat, minimizes piercing time, reduces slag and blowback, detects lost cuts, maximizes cut quality, reduces secondary operations, and permits unattended operation – producing exceptional productivity in an oxyfuel cutting gantry. For more information, contact us toll free at 1-800-ESAB-123 or www.esabcutting.com.

Product of choice for professional CNC cutting.

Trust ESAB to simplify plasma beveling.

- Make straight and bevel cuts on the same part
- Automatically adjusts cutting parameters such as speed, kerf and tilt angle for material thickness and bevel angle
- Precision Tactile Sensor maintains the torch height relative to the plate surface for accurate bevel cutting
- Cut material from 1/4 to 1 1/4 inch thickness

ESAB's unique integration of cutting machine, control and plasma flow control has created a new era in plasma cutting and beveling. The Expert Motion Plasma Variable Bevel Angle (VBA) System is the most accurate and easy-to-use beveling system in the industry. The reduced size and weight allows its use on smaller machines or as a retrofit, making beveling more affordable.

Ask for ESAB by name.

Great things happen when you put us to work.
1.800.ESAB.123 www.esabna.com www.esabcutting.com



WELDING | CUTTING | FILLER METALS

Circle 236 on Reader Service Card

**WE HELPED PUT A MAN ON THE MOON.
WE CAN GET CREWS OUT TO YOUR RIG.**



Very soon, crews heading out to rigs in the Gulf of Mexico will be experiencing something different. Something new. That's because they'll be going to work aboard SLICE™ Crew Transport Vessels, two of which are scheduled for a Fall 2006 delivery. Designed and built by Lockheed Martin, the world leader in advanced technology systems and solutions, the SLICE Crew Transport Vessel is a twin-hull design that provides high speed and stability, even in high sea states. And that means a more comfortable trip for your crews. SLICE. Fast. Safe. Cost-effective. It's more than a vessel. It's a solution.

Circle 259 on Reader Service Card

LOCKHEED MARTIN
We never forget who we're working for™



Twin UltraJets for New Offshore Wind Farm Boat

The 45.9 ft. (14 m) catamaran RSS Scirocco has been built by South Boats' Special Projects Division to operate around the U.K. coastline supporting and servicing the inshore and offshore wind farm structures.

The vessel is powered by twin Scania

DI9 55M 420 hp engines driving twin UltraJet 376 waterjets, providing a design speed of 24 knots sprint, with an 18 knot service speed.

Ben Colman, Sales Director, reports that Ultrajets were chosen because of the increased maneuverability and the

ability to hold station while work was carried out. This was a key requirement when servicing offshore wind farms especially in very rough sea conditions. RSS Scirocco is fitted with a Kobelt multi-station electronic steering, throttle and bucket control system, tailored to



RSS Scirocco Main Particulars

Length, oa.	45.9 ft. (14.3 m)
Length, hull	42.6 ft. (13 m)
Breadth ....	.20 ft. (6.1 m)
Draft ....	.33 ft. (1 m)
Displacement ....	.16,000 kgs
Diesel Engines	2 x Scania DI9 55M 420 hp
Waterjets	2 x Ultra Dynamics UltraJet 376
Design Speed ....	.24 knots
Service Speed ....	.18 knots
AC Electrics ...	HFL RIZ8.5KVA50 8.5Kva Ranger
Deck Crane ....	.Palfinger

Maximum Reliability For Demanding Offshore and Shipbuilding Applications

PAN-STEEL® Stainless Steel Fully Coated Self-Locking Ties provide the strength of steel and the protection of a polyester coating for a durable method of bundling and fastening.

Longer Useful Life

- Base 316 stainless steel with a low-smoke, halogen-free, polyester coating provides resistance to temperature extremes, corrosion, weather, chemicals, salt spray and UV radiation to withstand harsh environments

Innovative Locking Head Construction

- Assures locking in any position, with a high rated loop tensile strength of up to 450 lbs., for a durable solution that delivers an extra margin of strength

Added Safety

- Fully coated body construction assures steel is not exposed providing added protection for the installer and the bundle

Lower Installed Cost

- Patented self-locking design requires no fold over or additional installation steps
- Super-heavy (.625" width) ties meet Coast Guard specifications (IEEE Standard 45) making them an ideal alternative to conventional strapping to dramatically reduce installation time

Flexibility in Selection

- Available in three widths, standard cross-section (.18" width), heavy cross-section (.31" width) and super-heavy cross-section (.625" width) for selecting the optimum size and strength to meet the application



Application of super-heavy MLTFC tie with RT1HT tool



Industry leading installation tools to enhance productivity

PANDUIT is a Global Leader Providing Innovative Cable Management Solutions.

- **Stainless Steel Systems**
- **Cable Ties and Accessories**
- **Raceway Systems**
- **Routing Systems**
- **Identification Systems**
- **Power and Grounding Systems**
- **Terminals**
- **Safety and Facility Solutions**



Visit us at www.panduit.com/ss14

Contact Customer Service by email: cs@panduit.com
or by phone: 800-777-3300 and reference ad # ss14

the application with independent control over each waterjets steering and position, selected by various control modes from the main helm position. The waterjets can be serviced quickly and easily without dry-docking the boat, an important issue when a vessel is operating in an area where there are no facilities to undertake extensive repair work.

"During sea trials the boat performed faultlessly and proved the hulls compatibility to the UltraJet unit and speeds. Performance and manoeuvrability were well above expectation," said Coleman

The vessel is fitted with an Island wheelhouse with flying bridge and observation deck atop. It will be painted marine international safety orange while the hull and ring deck are to be left in a bare aluminium finish.

The scantlings of the vessel have been substantially constructed by South Boats to take into account the vessels operation. It is fitted with a central helm, sophisticated electronic navigation equipment, Kobelt electronic steering, with throttle and UltraJet bucket controls directed towards the helmsman's position. The wheelhouse is fitted with KAB seating for 12 passengers, plus crew.

On deck is a Palfinger Marine PK4501M foldable crane. Code named SCC001, the vessel is a first of class new build for the newly formed South Boats Special Projects Division. The vessel marks a significant milestone in the company's history and is the smaller of the two new aluminium vessels that have been designed and entered into the company's sales portfolio.

Circle 10 on Reader Service Card

California

The Incredible Green Hulk

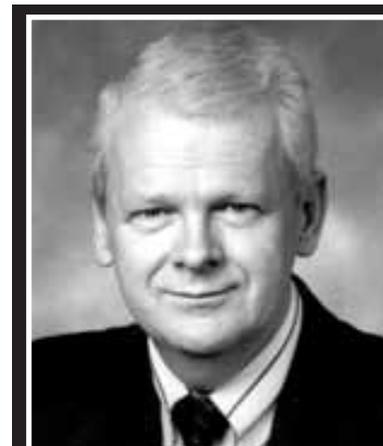
By Dennis Bryant, Senior Counsel,
Holland & Knight LLP

California politicians have once again shown that they are masters at playing up to the vocal minority. Governor Schwarzenegger signed into law a bill adopted by the state legislature that will impose severe discharge restrictions on virtually all large vessels calling at California ports. Any improvement of the California environment as a result of this legislation will be marginal at best. One is reminded of the 1960's television show where the 700-pound Incredible Hulk plodded around beating up smaller individuals and saving the world.

owner or operator must, within 24 hours, notify the State Water Resources Control Board. Upon the departure of an oceangoing ship from its first port or place of call in California for 2006 and the future, the master, owner, or operator must maintain on board selected information regarding the ship, its graywater and blackwater systems, and California port of call information. This same information must be communicated to the State Lands Commission. The term "oceangoing ship" means a private, commercial, government, or military vessel of 300 gross registered tons or more calling on California ports or

go far beyond the international provisions found in the MARPOL Convention.

Practical problems regarding the prevention of such discharges will present themselves on many ships, particularly with regard to graywater. The statute defines "graywater" as drainage from dishwasher, shower, laundry, bath, and washbasin drains, but does not include drainage from toilets, urinals, hospitals, or cargo spaces. While drainage from toilets and urinals on ships feed into the sewage system, the same is not generally true for graywater discharges. On many ships, particularly older ones, con-



Dennis L. Bryant, Senior Maritime Counsel at the law firm of Holland & Knight, Washington, D.C., is a contributing editor of MR/EN.



California Governor Arnold Schwarzenegger signed into law a bill that will impose severe discharge restrictions on virtually all large vessels calling at California ports.

The Clean Coast Act, which comes into effect on January 1, 2006, will prohibit oceangoing ships from conducting onboard incineration while operating within three miles of the California coast. The law will also prohibit oceangoing ships from releasing hazardous waste, graywater, sewage, sewage sludge, and oily bilgewater into marine waters of the state. If there is a release of such material from an oceangoing ship into marine waters of the state, the

places.

Large cruise ships operating out of California ports have been subject to similar restrictions for several years, but this is the first time any jurisdiction has attempted to impose such sweeping conditions on all classes of vessels. Inclusion of government and military vessels is particularly interesting, given the exemption or waiver generally accorded federal activities by state governments. These restrictions obviously

SCHOTTEL for the Shipping World



Our product range embraces 360° steerable propulsion systems, manoeuvring devices, and also complete conventional propulsion packages rated at up to 30 MW. Through our worldwide sales and service network we offer economical and reliable solutions for every imaginable maritime application. So we can provide the right thrust for your vessel.

SCHOTTEL, Inc. · 5804 River Oaks Road South · Harahan, LA 70123 · USA
Tel.: 5 04 / 7 29 41 10 · Fax: 5 04 / 7 29 41 20 · eMail: nmoerkeseth@schottel.com



Innovators in propulsion technology

SCHOTTEL GmbH & Co. KG · Mainzer Str. 99 · D-56322 Spay/Germany
Tel.: + 49 (0) 26 28 / 6 10 · Fax: + 49 (0) 26 28 / 6 13 00 · eMail: info@schottel.de · www.schottel.com

Circle 286 on Reader Service Card

trol of graywater discharges is complex. Ships calling at California ports will soon be faced with penalty actions if they don't successfully turn off all possible graywater discharge lines. They will also be faced with the problem of where to store the graywater until they sail out

of California waters. If the ship spends much time at anchorage, the graywater collection may quickly exceed tankage capacity.

The unique recordkeeping and reporting requirements will prove daunting for a ship with a small and overworked

crew. In this regard, those requirements will become a Catch-22 situation. If California suspects an improper discharge, they can prove it with the ship's own records. If the state can't prove an illegal discharge, they can probably find a paperwork violation. If the ship does-

n't make timely and accurate reports, that is a separate violation. The maximum civil penalty authorized by the statute is \$25,000 for each violation.

Why does the State of California engage in such behavior? Its politicians seem to be constantly vying to out-do each other with regard to proving their "Green" credentials. Ships, particularly foreign ships, are easy targets with no political downsides. Neither the politicians nor the small but vocal environmental advocacy groups care that such things as graywater discharges from ships with 20-person crews are minuscule. Tackling real environmental problems such as agricultural pollution in the San Joaquin Valley would mean taking on powerful opponents with hefty political and financial clout. Better to attack a small issue that lacks the political capability of fighting back.

The position taken above does not represent a defense of pollution of the environment. Rather, it is a call for common sense. Ships have been the target of attacks for oil spills for years. All the data show, though, that the large majority of oil entering waters of the United States comes from land-based sources - particularly what are called no-point sources. The federal and state environmental enforcement agencies, though, have yet to come to grips with this fact. They continue to pound the ship owners and operators, largely because it is easier than tackling real problems, the solution of which will provide measurable benefits.

In 1996, Congress amended the Federal Water Pollution Control Act (FWPCA) to preempt states and political subdivisions from regulating discharges from military vessels covered by uniform national discharge standards promulgated by the Secretary of Defense, in consultation with the Administrator of the Environmental Protection Agency (EPA). The regulations have gotten bogged down in the face of other priorities, but the concept is excellent. Military vessels have to be able to operate unimpeded worldwide. State and local jurisdictions can not be allowed to impose unique requirements on military vessels.

The same philosophy holds true for commercial vessels. Standards must be uniform so that a ship in compliance in one port of the United States will be in compliance in all U.S. ports. It may be time for the maritime community to seek the consistency that would be provided by the uniform discharge standards.

The Brand to Trust



New Construction, Repairs, Conversions

13 Gulf Coast Locations

40 Dry Docks

Design & Engineering, Hydraulic,
Electrical, Machining & Propeller Shops

24 / 7 / 365 Service



8365 Highway 308 South • Lockport, Louisiana 70374
Telephone: 985.532.2554 • Fax: 985.532.7225
www.bollingershipyards.com • sales@bollingershipyards.com

Circle 216 on Reader Service Card

The Americans with Disabilities Act

The Effect of Spector vs. Norwegian Cruise Lines

In its June 6, 2005 decision in *Spector v. Norwegian Cruise Lines* the United States Supreme Court held by a five-to-four majority that the Americans with Disabilities Act of 1990 (ADA) applies to foreign-flag cruise ships in United States waters. An article in the August 2005 edition of *Maritime Reporter and Engineering News* discussed the sections of the ADA which the Supreme Court considered in its decision. This second article will consider the practical effect of the decision on the two Norwegian Cruise Lines (NCL) vessels in the context of the complaint filed by plaintiffs. In August 2000, several Houston, Texas residents commenced an

action against NCL in the United States District Court for the Southern District of Texas. In their amended complaint, they describe themselves as "individuals with physical impairments that substantially interfere with one or more of their major life activities, including walking." One utilized an electric scooter and two required wheelchairs for mobility. Two of the plaintiffs, not otherwise physically impaired, claimed discrimination because they "are known to associate with persons with disabilities." The ADA specifically includes individuals who are "known to have a relationship or association" with disabled persons within the scope of those protected from

discrimination. While the complaint was also filed on behalf of "all current and former passengers of NCL cruises who are similarly situated," a determination of whether the action should be certified as a class action has not yet been made.

Since cruise ships are not identified in the ADA, the complaint alleged that the two vessels involved, which regularly sail in and out of Houston embarking and disembarking passengers on their cruise itineraries, are "places of public accommodation and ... also house numerous places of public accommodation" and are therefore prohibited from discriminating against the disabled or those who associate with them under



William N. France is a senior partner of Healy & Baillie, LLP, a New York law firm with a focus in maritime law, as well as a licensed professional engineer.

KING-GAGE® Marine Systems



KING-GAGE® LevelPRO
Multiple Tank Level Processors

Continuous measurement of multiple ballast and shipboard service tanks.

- Total volume and/or tank depth
- Durable corrosion proof housing
- Digital communications output



Tank Level Indication for the Marine and Offshore Oil/Gas Industries



KING-GAGE® LiquiSeal
Liquid Level Transmitter

Rugged marine liquid level sensor for ballast/cargo/service tanks or draft measurement.

- Electronic or pneumatic output
- Proven air purge principle
- Externally mounted





- Tank Gauges
- Draft Measurement
- Air Control Stations
- Compressed Air Filters
- USN Service

KING-GAGE® LevelBAR
Tank Level Indicator

Analog LED column graphically displays tank level as total volume and/or depth.

- Replaces fluid-filled gages
- Stainless steel housing
- Greater reliability





KING-GAGE®
SINCE 1937 KING ENGINEERING CORPORATION

800-242-8871 • 734-662-5691 • FAX 734-662-6652 www.king-gage.com

Towing, Mooring, Umbilical, Oceanographic – and other Winches

MOORING WINCHES --
Our CONGRATULATIONS to Sause Brothers on Sunset Bay in 2004, and repeat order for 2005 barge. Once again an industry leader has chosen Rapp Hydema





TOWING WINCHES -- recent order for M/V Saturn matches winches supplied to Western Towboat



RESEARCH & SPECIALITY WINCHES --
This hydrographic is but one of several types aboard NOAA's FRV-40 Oscar Dyson



UMBILICAL WINCHES -- this one aboard Fugro McLelland's M/V Bucentaur

Congratulations to Oceanering -- on recent deepwater winches order!

U.S.:



RAPP MAREQ
COMMITTED TO INNOVATING THE INDUSTRY

www.rappus.com

Norway:



RAPP HYDEMA
COMMITTED TO INNOVATING THE INDUSTRY

www.rappmarine.com

Circle 257 on Reader Service Card

Circle 282 on Reader Service Card

Legal Beat

Section 12182 of the ADA. In addition, the vessels were alleged to be "public transportation services provided by a private entity ... engaged in the business of transporting people ... whose operations affect commerce" which are also prohibited from discriminating by Section 12184. The specific allegations of discrimination in the complaint concerning cruises in September 1998 and August and September 1999 are: notwithstanding that the two named vessels can accommodate several thousand passengers, each vessel has but four cabins "accessible to persons who utilize wheel chairs or scooters"; passengers who must utilize these accessible cabins pay a surcharge; NCL has not taken steps and is unwilling to remove architectural barriers in the vessels' existing facilities or to offer goods and services in alternative settings when it is readily

achievable to do so and plaintiffs, therefore, were denied full and equal benefit of the services, programs and facilities of the public accommodations unless they paid surcharges to obtain assistance or modifications from the crew; plaintiffs were subjected to "different criteria and eligibility requirements that tend to screen out or discriminate against" persons utilizing scooters and wheel chairs in particular because NCL maintains evacuation equipment and programs in locations that are not accessible to them and would not be accessible in the event of an emergency; and, those plaintiffs traveling with the disabled were also discriminated against because they were forced either to miss programs, services and activities or avoid onboard facilities or to leave their loved ones alone. The suit seeks a declaratory judgment that NCL has violated the ADA; an injunc-

tion prohibiting NCL from continuing to fail to remove architectural barriers when such removal is readily achievable, to fail to modify its policies and procedures to insure equal access to goods and services aboard the vessels, and to fail to remove discriminatory policies, procedures and eligibility criteria; and the award of plaintiffs' reasonable attorneys fees and costs.

In November 2000, shortly after suit was filed, NCL moved to dismiss the complaint for failure to state a claim. That is, even assuming the allegations of the complaint were true, NCL claimed they were legally insufficient to support the relief sought. NCL argued that requiring its ships to comply with the ADA was an impermissible extraterritorial application of the ADA; that it was not required to remove barriers from its ships because the administrative agen-

cies responsible for promulgating regulations regarding cruise ships had failed to do so; and, that the companion plaintiffs' allegations did not establish that they were targeted for discrimination. It is important to understand that NCL's motion was made before plaintiffs offered any evidence in support of their allegations. The District Court issued its decision almost two years later, in September 2002, granting in part and denying in part NCL's motion. A summary of the District Court's holdings will help in understanding the significance of the Supreme Court's ruling. Initially, the lower court determined that the ADA's definitions of public accommodations-places of lodging (containing more than five rooms for rent); an establishment serving food or drink; theaters, concert halls and the like; sales or rental and service establishments; museums



Viking Enhanced Softloop Fender

When Push Comes To Shove, Have A Viking On Your Side!

- The softest, most forgiving ship assist fender on the market
- Designed for greater energy absorption and gripping ability
- Ideal for tractor tugs, bow, stern and side fenders
- Side hip fenders for tug and barge units
- Pier cell fenders

Tel: (732) 826-4552 • Fax: (732) 826-5533 • E-mail: vikingfender1@yahoo.com • www.vikingfender.com

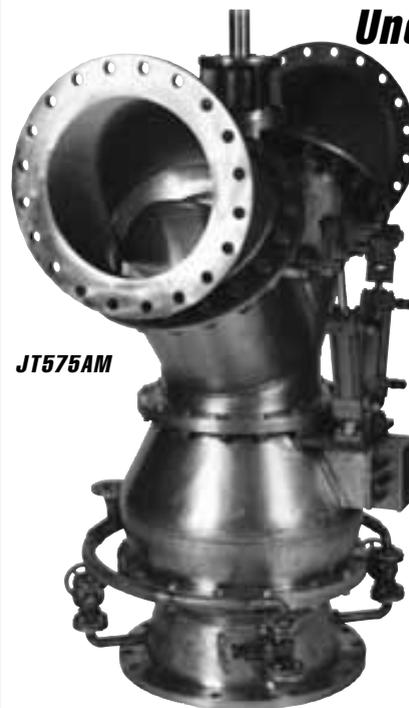
a division of Viking Marine Products, Inc.

1160 State Street • Perth Amboy, NJ 08861 USA

Circle 302 on Reader Service Card

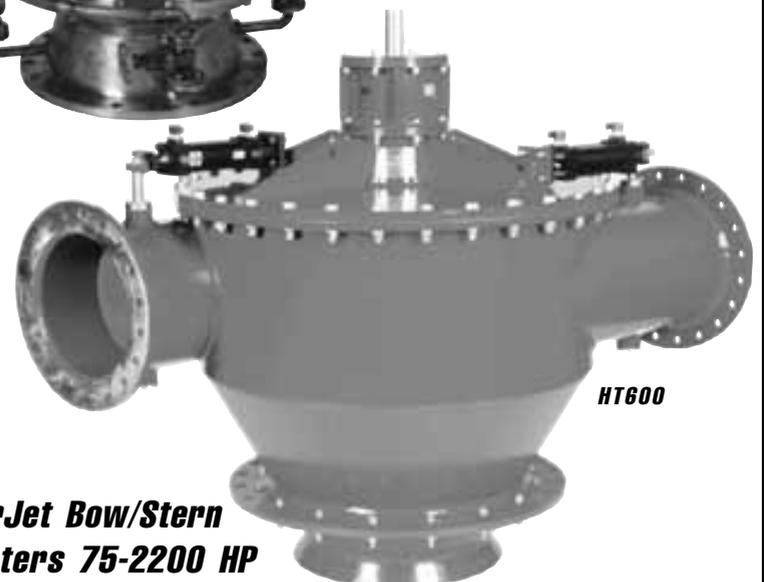


Uncompromised Control



JT575AM

- **Low Submergence Requirement**
- **Small Hull Penetrations**
- **Auxiliary Propulsion/ "Take Home" Capability**
- **Effective Thrust In Currents**
- **Proudly Made In The USA!** 



HT600

WaterJet Bow/Stern Thrusters 75-2200 HP

2201 Pinnacle Parkway • Twinsburg, OH 44087
(330) 963-6310 www.omnithruster.com

Circle 271 on Reader Service Card



**One organization.
Two world-class brands.**

Caterpillar® Marine Power Systems

For over 80 years, we've never compromised in bringing the best value to our customers, in creating innovative products, or in our commitment to protect and preserve the earth. We never compromise. And neither should you.

www.cat-marine.com. or www.mak-global.com



©2005 Caterpillar
All Rights Reserved.

Circle 220 on Reader Service Card

NACE Unveils New Marine Courses

Corrosion society renews its commitment to helping the marine industry fight corrosion.

By Matthew V. Veazey, Course Developer, Education, NACE International

Protective coatings provide the first line of defense against the estimated \$276 billion annual cost of corrosion in the U.S. NACE International has been at the vanguard of this ongoing battle with its Coating Inspector Program (CIP), which has set a world-class benchmark for quality assurance on myriad coatings projects. NACE appreciates the marine industry's role in helping to make CIP a success for more than 2 decades. Now, NACE would like to return the favor.

Recognizing that new regulations and technological advances have dramatically altered the options for fighting corrosion in marine environments, NACE is introducing a new, comprehensive set of courses tailored for the marine industry. Although coatings will remain effective tools for combating marine corrosion, corrosion control practitioners can employ other protective measures as well. By offering four new marine-focused courses, NACE will continue to serve the marine industry as an important resource for quality control and prevention training.

The four new NACE courses include Marine CP 2-Cathodic Protection (CP) Technician, Offshore Corrosion Assessment Training (OCAT), Shipboard Corrosion Assessment Training, and Marine Coatings Technology. Brief descriptions of these new offerings follow:



Marine CP 2-CP Technician

Does your job involve applying CP technology to marine vessels, offshore structures, or underwater pipelines? If so, NACE has developed a course for you.

The Marine CP 2-CP Technician course is adapted for the marine industry from NACE's existing CP 2 course. The intensive six-day course features intermediate-level discussions of corrosion theory and CP concepts, types of

CP systems, alternating current and direct current stray-current interference, and advanced field measurement techniques.

Combining both theoretical knowledge and practical techniques for testing and evaluating data, Marine CP 2 shows students how to determine the effectiveness of both galvanic and impressed current CP systems and gather design data. It includes lectures and hands-on training with equipment and instruments used in marine CP testing. Highlights of the course include:

- Corrosion theory
- CP systems
- Field measurements and instrumentation
- Stray current and CP interference
- Safety specific to CP
- CP recordkeeping.

Students in this course should either have a working knowledge of CP or extensive CP field experience with a technical background and marine or offshore work experience. Before registering for the course, students should complete a preliminary application for certification at least 60 days in advance so that NACE can verify their education and prerequisites.

Prerequisites for Marine CP 2 include high school chemistry and mathematics courses (including algebra, balancing equations, converting units, logarithms, and graphs); the NACE Basic Corrosion Course, NACE's CP 1-Cathodic Protection Tester course (or equivalent); and comprehensive knowledge of electrochemistry, electrical laws, series and parallel circuits, meter operation, and CP fundamentals. Students can earn 5 CEU's in the course, which concludes with written and practical exams.

OCAT

OCAT is designed for anyone who is involved in integrity management of fixed offshore structures. The curriculum applies to individuals with management and planning responsibilities, field inspectors who conduct in-service inspections of facilities, offshore platform operations personnel, and other corrosion control professionals.

The five-day program covers the elements of in-service inspection and maintenance planning for fixed offshore structures. In addition, it addresses the Minerals Management Service (MMS) facility evaluation grading system requirements for inspection reporting.

OCAT highlights include:

- Corrosion and corrosion control
- Protective coatings systems
- Splash-zone systems
- CP systems
- Regulatory issues
- Corrosion prevention maintenance programs
- Facility breakdown
- Condition grading systems
- Data collection and management systems
- Assessment standards
- Safety
- In-service evaluation equipment
- Inspection planning



Photo credits: NACE International

- MMS Level 1 inspections (A-B-C grading)
- Data utilization and maintenance planning.

There are no prerequisites for OCAT, but NACE recommends that attendees possess a high school diploma or GED and have at least three months' experience performing field inspections of fixed offshore platforms. Students can earn 3.2 CEU's in this course.

Shipboard Corrosion Assessment Training

Shipboard Corrosion Assessment Training covers the fundamentals of coatings, corrosion, and corrosion control. The course emphasizes how these concepts relate to assessing the condition of tanks and other structures and determining which actions will effectively maintain fully operational status. Developed for coating inspectors, shipyard planners, design engineers, type commander representatives, and port engineers, Shipboard Corrosion Assessment Training gives the assessor practical guidelines for surveying and evaluating protective coating system condition on specific areas of a marine vessel. It can serve as the basis of a consistent, orderly, and repeatable process of evaluation that earns the confidence of all personnel involved in the maintenance cycle. Highlights of the course include:

- Visual assessment exercise
- Corrosion theory
- Corrosion control
- CP
- Protective coatings and linings
- Corrosion-resistant materials
- Safety
- Corrosion protection system evaluation
- Evaluation tools and equipment

Grading system. Students wishing to take Shipboard Corrosion Assessment Training must meet two prerequisites. In addition to having successfully completed NACE CIP Level 1 or holding NAVSEA Basic Paint Inspector Certification, students must have two years' direct experience in the preservation, planning, quality assurance test-

ing, or design of coating systems.

Marine Coatings Technology

NACE's Marine Coatings Technology course—presently under development—will present essential knowledge about corrosion and marine coatings before delving into quality control issues, different structural considerations in regard to these coatings, and operational matters. Highlights of the five-day course include:

- General, health and safety, and corrosion issues
- Marine coatings
- Quality control
- Structure-specific matters
- Operational considerations.

With an approved application and successful completion of the course, a student can become a Certified NACE Marine Coatings Technologist. There are two paths for attaining this level of certification. Following Path 1, a student who holds a NACE CIP card (any level) and has three years' coating experience can acquire the certification by passing the Marine Coatings Technologist exam and having an application approved by a NACE review board. Students pursuing Path 2 must have three years' coating experience, successfully complete the course, and have an approved application.

A Marine Coatings Technologist with a total of eight years' coating experience in the marine industry can advance to the next level of certification: Certified NACE Marine Coatings Specialist. An individual with these credentials need only pass the Marine Coatings Specialist Certification Exam and have an approved application to attain the higher designation.

For more information about these or any other NACE courses, visit the NACE Web site: www.nace.org or contact NACE FirstService by phone: 281/228-6223 or e-mail: firstservice@nace.org.



and libraries; places of recreation, education and exercise-encompassed such facilities even if located aboard cruise ships. Further, the court held that cruise ships fall squarely within the definition of "specified public transportation services" under Section 12184.

The court addressed and rejected NCL's argument that application of the third sub-chapter of the ADA to cruise ships could conflict with international regulations governing the structural and safety requirements of the vessels. The court reasoned that the "mere 'possibility' that ... plaintiffs' claims ... might conflict with applicable international treaties and conventions" was an insufficient ground for dismissal for failure to state a claim. Further, NCL had not proved that the physical accommodations requested by plaintiffs were not readily achievable or that alternative methods of meeting those accommodations were also not readily achievable. The court commented that "[p]resumably, if a proposed accommodation would conflict with safety requirements under treaties or maritime conventions, then it would not be 'readily achievable' as defined in the [ADA]." The court also noted that at a later stage in the litigation NCL may be able to establish that certain proposed modifications or alternative methods of compliance were not required by the ADA because they are not "readily achievable." Finally, the court rejected NCL's conflicts argument because NCL had failed to show how compliance with plaintiffs' non-physical modification claims (such as the surcharge for disabled persons) would conflict with international regulations.

Significantly, because of the early stage of the litigation, the merits of NCL's arguments concerning actual conflicts between the ADA and international conventions simply was not addressed. NCL also argued that the ADA was domestic legislation and its application to foreign-flag vessels would be an impermissible extraterritorial application of the statute. After a lengthy review of precedent, the court concluded that Congress intended the ADA to apply broadly and that foreign-flag vessels are not exempt from compliance with the regulations of port nations unless they are engaged in "innocent passage" through coastal territorial waters or the issues regulated involve the vessel's internal affairs, normally interpreted to mean interactions between the vessel's owners and crew. Neither exemption applied to NCL's vessels. In fact, the court noted that failure to accommodate disabled domestic passengers while in domestic waters directly implicated Congress' interest in protecting U.S. citizens' rights.

However, the court did accept NCL's argument that plaintiffs could not enforce the ADA's barrier removal requirements because the responsible agencies' had failed to create guidelines regarding new construction or alterations of cruise ships. Both the Department of Transportation (DOT) and the Department of Justice (DOJ) were charged with issuing applicable regulations under the ADA. While such regulations in the form of ADA Accessibility Guidelines had been issued for places of public accommodation, cruise ships had been specifically excluded pending development of standards appropriate for their unique requirements. The court noted that two Florida District Courts had held that failure to promulgate regulations did not prevent application of the ADA to cruise ships, while two other District Courts (one also in Florida and the other in Hawaii) had reached the opposite result. Acknowledging that the issue was difficult, the court held that the ADA's existing barrier removal guidelines did not apply to cruise ships and those claims seeking the removal of physical barriers aboard the vessels were dismissed. Calling the lack of appropriate regulations unfortunate, the court said the agencies could remedy the situation by creating the appropriate guidelines and, until then, it would not "force owners of cruise ships to guess which barriers they must remove to accommodate the disabled, or ... subject them to varying and possibly conflicting instructions from courts on the issue."

The final issue decided by the court concerned the viability of the companion plaintiffs' claims. Again, after a thorough analysis of analogous precedent, the court held that because the companion plaintiffs sought to derive benefits from their stay on NCL's vessels that were independent of the benefits enjoyed by the mobility-impaired plaintiffs and because NCL also charged them an additional fee to stay in the same rooms as their disabled traveling companions, they suffered discrimination and incurred additional fees due to their association with the disabled. Accordingly, NCL's motion to dismiss those claims was denied.

Both NCL and the plaintiffs appealed the District Court's decision to the United States Court of Appeals for the Fifth Circuit. The court of appeals upheld dismissal of the barrier removal claims, but on the basis of the "clear statement rule" to the effect that Congress had failed affirmatively to express an intent that the ADA should apply to foreign-flag vessels. And, on that same ground it reversed the lower court's decision sustaining the non-barri-

er removal claims. The appeal court's holding was premised, in large part, on the canon of statutory construction that statutes should be construed narrowly to avoid conflicts with international law in accord with the doctrine of comity among nations. Said the court: "Because the [ADA] barrier removal provisions may govern the finest details of maritime architecture in the quest to render

ships fully accessible to disabled passengers, those provisions pose a stark likelihood of conflicts with the standards set out in [SOLAS]. Therefore, as a matter of statutory construction, [the ADA] must be narrowly construed in a manner that avoids these potential conflicts." On the ground of statutory construction the court also rejected a piecemeal application of the ADA, as the dis-

VISIT US AT EUROPORT MARITIME STAND NO 1907

Save up to
US \$6,300
per vessel

Fleet 77



Fleet 33



Fleet 55



Inmarsat Fleet with Xantic Airtime: The Reliable Connection

As more and more people make the switch to Inmarsat Fleet, it pays to shop around for the best maritime airtime provider. Xantic offers you the most cost-effective and reliable service available, plus a full range of extra services that add enormous value to your Fleet experience.

There are also some huge savings on offer if you sign up for Xantic airtime today. Whether you already have Fleet and are looking to upgrade to a better provider, have Inmarsat-A and wish to migrate to Fleet, or are buying Fleet for the first time, you can save as much as US\$ 6,300 per vessel.

This special offer must end soon. Find out more on www.xantic.net or contact Xantic Customer Services on +61 7 5498 0000 or email service@xantic.net. Or contact your local account manager.

There's never been a better time to opt for Inmarsat Fleet.



Circle 309 on Reader Service Card

strict court suggested might be necessary in respect of a barrier whose removal was readily achievable and therefore not in conflict with international law.

The appeals court did not accept the reasoning and conclusion of the Eleventh Circuit Court of Appeals which held that the ADA did apply because of its interpretation that the ADA applied only within United States' waters. Also, the appeals court rejected the argument that application of the ADA would not affect the internal management and affairs of a foreign-flag vessel finding that adjustment of evacuation procedures and crew responsibilities to say nothing of structural changes directly concerned such matters.

When plaintiffs appealed to the Supreme Court their claims had been dismissed in their entirety. The Supreme Court reversed the court of appeals. A five-to-four majority held that NCL's foreign-flag cruise ships undoubtedly fell within the ADA's definitions of public accommodations and specified public transport and that the court of appeals too broadly applied the "clear statement" rule, in violation of applicable precedent. Accordingly, the non-barrier removal claims were sustained. The majority further held that the ADA's requirement that barrier removal be "readily achievable," defined as "easily accomplishable and able to be carried out without much difficulty or expense," meant that modifications in violation of

international conventions, such as SOLAS, would by definition not be "readily achievable." The same result would apply to the ADA's limitations on modifications that pose "a significant risk to the health or safety of others that cannot be eliminated by a modification of policies, practices, or procedures or by the provision of auxiliary aids or services" according to Section 12182.

But the majority specifically did not decide whether the ADA requires permanent and significant structural modifications that interfere with the internal affairs of any cruise ship, domestic or foreign, although it concluded that if it did, then recourse to the clear statement rule would not be necessary. In considering these issues, the court was divided. Three justices concluded that many ADA requirements (chiefly the non-barrier removal requirements) had nothing to do with a vessel's internal affairs but that barrier removal "would appear to involve requirements that might be construed as relating to internal ship affairs," though the doctrine need not be invoked when barrier removals would conflict with international regulations and so be not readily achievable. However, these justices thought that courts should have the freedom to invoke the clear statement rule even "without determining whether [the ADA] actually imposes a particular barrier-removal requirement entailing a permanent and significant structural modification interfering with a foreign ship's

internal affairs. Conversely, where it is not obvious that a particular physical modification relates to a vessel's basic architecture and construction, but it is clear the modification would conflict with an international legal obligation, the court may simply hold the modification not readily achievable, without resort to the clear statement rule." Two justices disagreed with necessity to invoke the internal affairs clear statement rule in light of the "readily achievable" limitation in the ADA and the United States' strong interest in protecting United States passengers.

Another four-justice group concluded that even if the ADA imposed a requirement interfering with a foreign-flag vessel's internal affairs (in which case the clear statement rule would bar application) the requirement would nonetheless apply to domestic vessels. Accordingly, the ADA could be applied on a case-by-case basis. The consequences of unequal application of the ADA to foreign and domestic cruise ships were not even mentioned. As noted in the earlier article, the dissent would have held, simply, that the ADA does not apply to foreign flag cruise ships because it lacks a clear statement of intent to do so and because Congress could never have intended the statute to be applied in a piecemeal fashion. The effect of the Supreme Court's decision on the district court litigation would appear to be only to reinstate the non-barrier removal and companion claims. And at this stage, the plaintiffs must now submit evidence that NCL actually violated the ADA in these respects. The barrier removal claims, it will be recalled, had been dismissed by the district court for the failures of the DOJ and DOT to issue regulations specifically applicable to cruise ships. Until such regulations are issued, the lower court decision in Spector, in the Fifth Circuit at least, is authority for the conclusion that ADA barrier removal claims on cruise ships—both foreign and domestic—may not be prosecuted. The Supreme Court did not address the effect of lack of regulations since there was no conflict between the circuit courts on this issue. Accordingly, lack of DOJ and DOT regulations governing cruise ships may prevent barrier removal claims depending on the court in which suit is brought. Interestingly, the First Circuit Court of Appeals held in *Umpierre v. Ferries Del Caribe, Inc.*, 403 F. 3d 60 (April 26, 2005), shortly before the Supreme Court decision in Spector, that lack of DOJ and DOT regulations specifically governing the new construction or alteration of cruise ships may not be fatal to ADA barrier-removal claims on foreign-flag cruise ships if the claims are stated under "regulations that require removal of existing barriers by all public accommodations and public transport apart from regulations that may govern any new construction or alteration." On remand, the District Court of Puerto Rico was specifically instructed to consider this issue. It seems clear that the next issue for resolution by courts of appeal will be whether lack of DOT and DOJ regulations prevents prosecution of ADA barrier-removal claims. Promulgation of such regulations would go a long way towards resolving the requirements for structural requirements for newbuilding cruise vessels as well as alteration of existing vessels. It would also provide uniformity and certainty for the courts to apply the barrier removal requirements of the ADA. Until then, the Supreme Court's ruling in Spector has merely set the stage for future litigation interpreting the details of a complex and ambiguously worded statute.

Take Command of Your Career®

Your experience may qualify you for a seagoing career with Military Sealift Command.

In the next several months, **Military Sealift Command** will be hiring **Civilian Mariners** for Federal employment. The following positions are in our Deck, Engine and Supply Departments:

- | | |
|---------------------------------------|-------------------------------|
| Able Seaman | Engine Utilityman |
| Ordinary Seaman | Electronics Technician |
| Unlicensed Junior Engineer | Pumpman |
| Refrigeration Engineer | Chief Cook |
| Deck Engineer Machinist | 2nd Cook |
| 1st Radio Electronics Engineer | Assistant Cook |
| 2nd Radio Electronics Engineer | Cook/Baker |

If you are interested in a career that offers on-the-job training, advancement opportunities, steady pay and Federal benefits, visit our Web site at www.sealiftcommand.com/MR or call 1-888-228-5509 to speak with a recruiter.



MSC IS AN EQUAL OPPORTUNITY EMPLOYER AND A DRUG-FREE WORKPLACE

Harris Named President of NASSCO



F.J. Harris

National Steel and Shipbuilding Company (NASSCO) said that, effective January 1, 2006, **Frederick J. Harris**, 60, will become president of NASSCO, succeeding **Richard H. Vortmann**, 61. Vortmann will become chairman of the board of NASSCO.

"The 23-year span of Dick Vortmann's leadership as president of NASSCO encompasses dramatic changes in both the company and the shipbuilding industry, and he has kept a steady hand on the organization's helm throughout his tenure," said **Michael W. Toner**, General Dynamics executive vice president and group executive for Marine Systems. "Fred Harris, who has served the Electric Boat subsidiary of General Dynamics and its customers with an intense focus on quality, innovation and efficiency, will carry that commitment and energy to NASSCO as he leads the company forward," Toner said.

"Fred has an intimate understanding of shipbuilding, shipyard operations and our customers' expectations, and is committed to helping NASSCO excel."

Harris joined Electric Boat in 1973 as a senior engineer in the Trident ballistic-missile submarine program. He held positions of increasing responsibility, including Deputy Program Manager-Advanced Propulsion Plant Technology Program for the Virginia-Class Submarine, before being appointed senior vice president for programs at Electric Boat.

In that position, he was responsible for execution of several key design, construction and fleet support programs, including the Seawolf- and Virginia-class submarine programs, CVNX Aircraft Carrier Design, Submarine Planning Yard & Fleet Support, and Submarine Life-Cycle Engineering.

Harris graduated from Maine Maritime Academy with a bachelor's degree in Marine Engineering. He sailed for several years in the U.S. Merchant Marine, notably aboard the U.S.-registered SS Transglobe, the most decorated American merchant ship of the Vietnam War.

He holds a U.S. Coast Guard Chief Engineer's License of Unlimited Horsepower. In 1972, Harris received an MBA degree from Babson College, graduating with distinction.

Bollinger Named Executive Vice President

Bollinger Shipyards, Inc. named **Chris Bollinger** as Executive Vice President of New Construction Division, according to **Donald "Boysie" Bollinger**, Chairman and CEO of the Lockport, La. headquartered

shipbuilding and repair company. Bollinger has been employed at Bollinger Shipyards, Inc. since 1993 and has held numerous managerial and leadership positions. He will continue his role on Bollinger Shipyard's Board of Directors as well as serving as President of Bollinger/Incat USA (B/I), Bollinger

High Speed Vessels (BHSV) and Chand, which are divisions of Bollinger Shipyards, Inc. Bollinger received his Bachelor of Science Degree in Business Administration from the University of Tennessee in 1993, and his Master of Science Degree in Business Administration from Nicholls State.

Every Night, All Night

#1 IN MULTI-SENSOR THERMAL IMAGING

FROM THE PERSIAN GULF TO THE GULF COAST
We've Got Your Back

The Most Reliable – The Best Support – Across the Broadest Base of Operations



SeaFLIR III



Sea StarSAFIRE III



SeaFLIR II



WideEye



Security HD

CDMQ™ Products
FLIR Systems' unique Commercially Developed - Military Qualified products undergo a development process that delivers battle hardened products at volume commercial prices. It's part of what has made FLIR the number one thermal imaging multi-sensor supplier.



USA: 1.800.727.FLIR
International: +44 (0) 1732 22 0011
See video of these products at:
www.flir.com

Walpert Appointed SCA Director Emeritus

The Shipbuilders Council of America (SCA) selected **Harvey B. Walpert** to be the first ever Director Emeritus of SCA in recognition of his outstanding contributions to the maritime industry. **Bruce Croushore**, Vice President of Bender Shipbuilding & Repair Co., Inc.

of Mobile, AL and past Chairman of SCA, presented the award during the SCA Fall Meeting in Amelia Island, FL on September 29, 2005.

Walpert's shipbuilding experience includes 22 years at Electric Boat Corporation, a division of General Dynamics, and 22 years at Halter Marine Group (currently VT Halter Marine, Inc.). He has served in his cur-

rent position as a Senior Defense Advisor for Bender for more than 5 years.

He is past Chairman of SCA, Southeast Shipyard Association, American Waterways Shipyard Conference (AWSC), National Shipyard Association (NSA), National Shipbuilding Research Program (NSRP), ECB and has served as a mem-

ber of the American Waterways Operators (AWO) Board of Directors. He is a past President of the Greater New Orleans Council of the Navy League and for several years was the shipbuilding expert on the Navy League's Maritime Policy Committee. He is also a founding member of the Maritime Cabotage Task Force (MCTF) and has served on industry panels for the Society of Naval Architects and Marine Engineers (SNAME) and the Maritime Administration (MarAd).

SCA President **Allen Walker** said, "For the past 50 years, Harvey Walpert has dedicated his professional career to the betterment of the maritime industry. The Council is honored to have him become our first director emeritus."

A native of Baltimore, MD, Mr. Walpert earned a bachelors degree from Johns Hopkins University and an MBA from Columbia University.

Greek Scholar Finds Berth at SUNY Maritime

She loves to paint abstracts, and the first time that she came to New York she was a member of a Greek folk dance troupe. But, **Vasiliki Sapouna's** purpose in coming to Maritime this fall semester as a Fulbright scholar is to continue and upgrade her family's traditional passion for the shipping business. Her grandfather, father, and uncles were all seafaring captains, or engineers, and her youngest brother has also entered Greek Merchant Marine Academy after getting a degree in Information Technology.



Vasiliki pursues a Master of Science in International Transportation Management at SUNY Maritime. It is a unique course of graduate study offered by Maritime's Department of Global Business and Transportation (GBAT). The program requires 33 credits to be successfully completed; 36 credits if the student follows an optional track in which, under faculty supervision, the student develops a thesis. When asked why she chose SUNY Maritime College to pursue her Fulbright scholarship, Vasiliki said: "I am interested in the whole package of transportation, not just the vessel - but the logistics, fleet management, marketing, and beyond. In other programs a student can only study Shipping-Sea Transportation (City University, London) or Logistics (MIT). Only the Maritime College has such a program that combines study of all modes of transport and how they can be used together to get the best result in

**Two ships
passing in the night
are no longer
nameless.**



GlobalWatch™ AIS takes the guesswork out of vessel identification. It's easy to interface it with your AIS-compatible Electronic Chart System, and it clearly displays all sorts of critical navigational information. You'll instantly see data like the name, MMSI, draft, length, and destination of all the ships in a radius of up to 30 miles. Even dynamic data such as a ship's position, speed over ground and heading are shown. The information is real time because it's refreshed constantly. GlobalWatch adds "intelligent", dynamic data to your chart overlays.

It even offers simple text messaging on a computer-like keypad, instead of the cumbersome 9-key phone pad found on other AIS units.

Just think of the benefits. You can easily navigate through heavily-trafficked commercial ports. "See" around bends in rivers to avoid near misses or collisions. Identify the position of nearby vessels in dense, blinding fog. GlobalWatch will radically change the way you view bridge electronics. And best of all, it's built by a name you already know and trust - ACR.



YOUR ULTIMATE WAY OUT

ACR Electronics, Inc., 5757 Ravenswood Road, Fort Lauderdale, FL 33312, U.S.A.
For information call (954) 981-3333 • e-mail: info8@acreelectronics.com • www.acreelectronics.com

A Chelton Group Company

Mandated for commercial vessels; a must-have for luxury yachts

Circle 203 on Reader Service Card

ACR Electronics, Inc. is registered by UL to ISO 9001:2000



WHY INSIST ON PETROCOM'S DIGITAL WIRELESS NETWORK TO FIRE UP YOUR PRODUCTIVITY?

BECAUSE FAILURE IS NOT AN OPTION.

When a leading South Louisiana automation company needed an ultra-reliable method for moving large amounts of production data at high speeds for its oil and gas customers in the Gulf of Mexico, their choice was an easy one.

They insisted on PetroCom's new digital wireless network. Why? Because it's based on secure, proven GSM/GPRS/EDGE technology. It offers pocket-sized, cost-effective, low-power hardware. And it can be installed in minutes - not days.

PetroCom's inherently secure, high-speed data communications network puts a virtual information superhighway at this company's disposal. Enabling it to wirelessly transport steady streams of data generated from offshore monitoring devices to its onshore datacenter. Allowing onshore and offshore workers to remotely access this decision-critical data in real time via a secure Web portal.

Having such a reliable and flexible conduit for securely moving high volumes of information,

then making it instantly available, lets this company increase its customers' productivity in ways it never could before. And gives it a competitive advantage that its less technology-savvy competitors will be hard-pressed to match.

To learn all the ways we can help your company capitalize on the Gulf's first digital wireless network to fire up your productivity and mobilize your workforce, contact us at 1-800-PETROCOM or www.petrocom.com. Then watch your competitors eat your dust.



VOICE • HIGH-SPEED DATA • FIXED WIRELESS • INTERNET ACCESS • E-MAIL • SHORT MESSAGE SERVICE • PRIVATE NETWORKING

transporting goods."

"Vasiliki epitomizes the type of graduate student whom we seek to recruit to our program here at Maritime," says Dr. **Larry Howard**, Chair of GBAT, "and with Jim Drogan, our Graduate Program Director, and **Bob Wolf**, our new Director of Graduate Admissions, I believe we have an excellent team that will successfully market Maritime to

intelligent young scholars like Vasiliki, who desire to immerse themselves in an intense study of the integrated processes and activities of maritime transportation."

AVEVA Restructures in China

AVEVA has restructured its Chinese

operations into two operational divisions. The move will dedicate AVEVA's VANTAGE engineering solutions and personnel to the unique requirements associated with each of the industry sectors; delivering solutions, support and consultancy more effectively.

The two divisions will be run from AVEVA's Asia Pacific operation and headed by: Ms **Liu Xiao Bin**, Vice

President, for the Guangzhou-based China Process and Power Division; and Ms. **Zhou Chun**, Vice President, for the Shanghai-based China Marine Division.

The China Marine Division will be responsible for serving all aspects of marine engineering and construction (including both shipbuilding and offshore facilities), to organizations including: China Shipbuilding Industry Corporation (CSIC), China State Shipbuilding Corporation (CSSC), and China Ocean Shipping (Group) Company (COSCO).

Transocean Inc. Wins Contracts for Rigs

The Transocean Leader, a fourth-generation, deepwater semi-submersible rig, won a one-year contract from Statoil ASA for exploration and development drilling operations offshore Norway. The Transocean Leader is expected to commence the contract by September 2007, in direct continuation of the rig's current contract, also with Statoil in Norway. Expected revenues are approximately \$133 million.

Additionally, Oil and Natural Gas Corporation Ltd. (ONGC) of India awarded the ultra-deepwater drillship Discoverer Seven Seas a three-year contract for drilling operations offshore India. The drillship is expected to complete its current three-year contract with ONGC by February 2007 and commence the new contract by the end of May 2007, following an estimated 90-day planned shipyard program. Revenues of approximately \$345 million could be generated over the three-year contract period, excluding revenues for comprehensive services that include well planning, operations support and logistics management.

Contract to Modify Ferry Design

Verreault Navigation Inc. of Les Méchins, Quebec, won a \$4.8 million contract to modify and enhance some of the design elements of the ferry M/V Madeleine operated by CTMA Traversier Ltée. between Cap-aux-Meules, in the Iles-de-la-Madeleine, Quebec, and Souris, Prince Edward Island.

The Madeleine will be equipped with a new stern and modified to expand the loading deck, allowing the ferry to carry more cargo and dock more easily, and provide better access for inspections and maintenance. This work is expected to prolong the life of the ferry by 10 to 15 years. Verreault Navigation Inc. will undertake these modifications between February and March 2006.

PROFESSIONALISM • EXPERIENCE • SERVICE



Setting Standards of Excellence
in Marine Classification



Circle 209 on Reader Service Card

World Class Communications Anywhere in the World



Secure Corporate Access

Digital Telephony

Broadband Internet

Real-Time Video

Circle 219 on Reader Service Card

Whether away at sea or moored in a foreign port, a reliable communications system isn't just a luxury — it's a lifeline. With over 20 years experience in mission-critical offshore communications, CapRock satellite networks deliver advanced services with unmatched reliability.

Available as either a standard service package or a custom-developed network, CapRock satellite solutions provide coastal and offshore vessels with business-grade communications. From telephone, fax, e-mail, internet and video to secure corporate networking, CapRock delivers the services you've come to expect in places you wouldn't expect to find them.



RELIABILITY TO THE EXTREME™

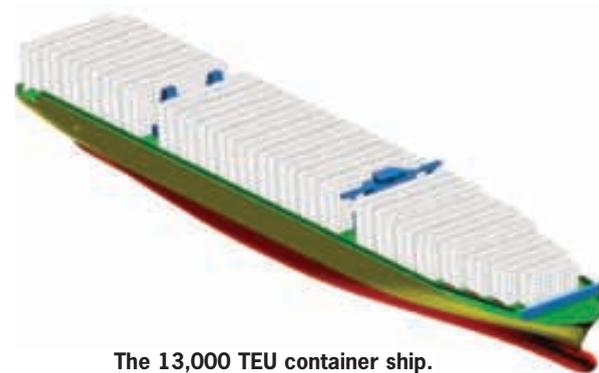
www.CapRock.com

Ready for the 13,000 TEU Boxship

By David Tinsley, Technical Editor

Having already prepared the ground for the production of as yet untried 'cathedral' engines of 14 or more cylinders, offering record concentrations of propulsive power from a single prime mover installation, Hyundai

Heavy Industries has also demonstrated a readiness to construct containerships of unprecedented size. However, a joint design study for a boxship of 13,000-TEU capacity, carried out by the Korean yard in conjunction with classification society Germanischer



The 13,000 TEU container ship.

Lloyd, favors a twin-screw configuration for such vessels, using two low-speed engines of a cylinder number proven in service.

Given the rapid advance in newbuild size over recent years, with a generation of ships in the 10,000-TEU category now starting to emerge from eastern Asian yards, the next step towards the 12,500/13,000-TEU mark is probably not that far off. Hyundai has equipped itself technically and physically to accommodate this prospective further development in market requirements, and has indicated that the production time for such a behemoth

would be just nine or 10 months. However, the current workload and extensive forward commitments preclude the possibility of delivering a 13,000-TEU containership before 2009.

Main dimensions of the proposed containership design would be 1,253 ft. (382-m) long, 177.8 ft. (54.2-m) wide, and 44.2 ft. (13.5-m) draft, and the maximum box intake would be 13,440-TEU, including a 21-row weatherdeck stow of 7,200-TEU. Powering would be by two eight-cylinder engines of some 45,000-kW apiece, driving twin propellers, and ensuring a service speed of 25.5-knots.

Acknowledging both the liner shipping sector's unerring quest for economies of scale, and its overriding preference for single-diesel, direct-drive plant, the study partners considered the various powering and propulsion options that could engender a speed of 26-knots in a boxship of such enormous capacity.

Hyundai undertook cost evaluations for different drive arrangements, including hybrid concepts as well as the single-engine and twin-drive options. Most significantly, the indications were that a twin propulsion system would be only "negligibly" more cost-intensive than the design variant with a single main engine.

From a technical standpoint, GL and Hyundai have taken the view that absolute safety is a major argument for the twin-drive solution. The redundancy implicit in such an installation points to a continuing ability to maneuver the vessel and make harbor in the event of the failure of one engine. The fact that the size of engines and propellers nominated for the draft design are in widespread use is seen as positive with regard to industry experience and service history, and is also a plus factor in terms of technical management, as concerns ease and cost-effectiveness of maintenance and



Got something to say?

We're Listening. Naval Architects – Marine Engineers – Team Players



5301 Shilshole Ave. NW, Suite 200 | Seattle, WA 98107 | t 206.782.3082 | f 206.782.3449 | info@ebdg.com | www.ebdg.com

Circle 235 on Reader Service Card

RAMCO

TFE SPRA-GARD® SAFETY SHIELDS FOR ALL PIPE CONNECTIONS IN THE MARINE INDUSTRY

To prevent fire from hazardous oil sprayouts and to ensure safety for shipboard personnel and equipment

IS YOUR ENGINE ROOM PROTECTED IN ACCORDANCE WITH SOLAS REGULATION 15.2.11*?

ABS TYPE APPROVED

**Shielding required on piping to avoid sprayouts of fuel oil, lubricating oil and other flammable oils*

"ONLY THE BEST IS ALWAYS SAFE"

RAMCO® MANUFACTURING CO., INC.
 365 Carnegie Avenue, Kenilworth, NJ 07033
 Tel: 908-245-4500 • Fax: 908-245-3142
 Web Site: www.ramco-safetyshields.com • E-Mail: info@ramco-safetyshields.com

Circle 281 on Reader Service Card

Diesel engines simply run and run



One of our clients published the best reference for the MAN B&W 32/40 engine in his magazine. The article gives a detailed account of 1 million accumulated running hours on eight MAN B&W 32/40 engines.

The gist of that story: the MAN B&W 32/40 cuts down running costs consequently. And you don't have to think about this engine for very long time. It simply runs and runs.

MAN B&W Diesel - a member of the MAN Group

Circle 262 on Reader Service Card



MAN B&W Diesel AG · Stadtbachstrasse 1 · 86224 Augsburg · Germany · Telephone +49 821 322-0 · Fax +49 821 322-3382 · www.manbw.com

LR: 1,900 New Containerships by 2012

Hand-in-hand with the accelerated development in the size of long-haul container vessels must come changes in the structure, design and deployment of the feeder fleet. According to **David Tozer**, Lloyd's Register's Business Manager for Container Ships, some 1,300 new vessels will be required to accommodate anticipated cargo growth in the feeder trades up to 2012. The calculation is based on projections of a doubling in trade volume in feeder and intra-regional operations during the period 2002-2012.

also be needed to replace existing tonnage over the same timeframe, suggesting a total demand in the order of 1,900 ships. Assumptions regarding fleet renewal stem from an analysis which indicated that up to 40 percent of feederships worldwide were at least 15 years old, suggesting that much of the tonnage involved would be removed from the market by 2010.

For 1,900 or so vessels to be introduced into service by 2012 would necessitate an annual infusion of newbuilds at a rate well in excess of current levels. In the opening edition of Container Ship



Focus, a technical publication produced by LR, Tozer is reported as taking the view that the lack of efficient, modern feeder tonnage poses a major threat to the container sector, and could potentially compromise the industry's investment in new, large post-panamax capacity.

"There is a clear need for modern feeder designs which are flexible yet targeted, but so far there is little evidence that this opportunity has been realized, and few orders have been placed," said Tozer. LR, in association with Ocean Shipping Consultants, has identified a range of feeder designs, each optimized for a particular trading region. Tozer is of the view that the feeder trades could potentially become one of the most important sectors for the container

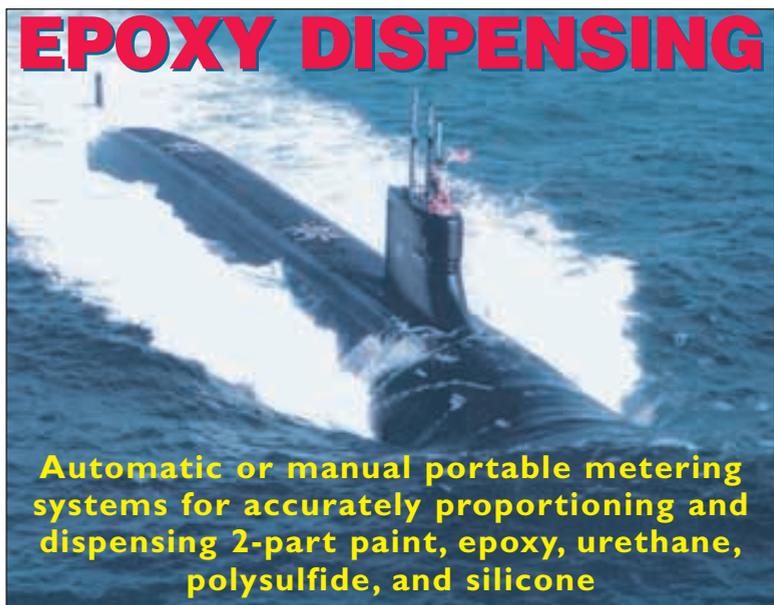
industry. "But to date there has been a failure to recognize the scale of the future demand. Without proper investment, the lack of capacity could constrain demand and adversely impact on deepsea vessel economics," he said.

Recent figures have indicated that around half of all newbuild boxship capacity on order or under construction entails vessels of more than 6,000-TEU. For sure, the overall containership orderbook does have the appearance of being out of balance, with its capacity orientation to a large number of very large vessels. Investment in smaller boxships and feeders has been at a markedly lower level, to the extent that a serious demand scenario has developed at the lower end of the size spectrum.

(Continued from previous page)

spare parts procurement. In examining the case for perpetuating the single-engine solution beloved of the deepsea containership industry, the study team found that the output of a 14-cylinder diesel would be insufficient to achieve the specified speed, while a 16-cylinder engine was considered too large. Moreover, HHI deems that the maximum, practical size of propeller has been reached, at a diameter of 9.5-m and weight of 110-tons. A single-screw system for the conceptual vessel of 13,000-TEU would call for a propeller of a size, it was suggested, that would involve a great risk of cavitation. Furthermore, the extremely high power transmitted by a single shaft was also felt to represent a risk. The proposed new behemoth would also denote a departure from standard technical design by virtue of the arrangement of the deckhouse in the forward part of the ship, rather than surmounting the engine room.

2-PART PAINT AND EPOXY DISPENSING



Automatic or manual portable metering systems for accurately proportioning and dispensing 2-part paint, epoxy, urethane, polysulfide, and silicone

Ashby Cross manufactures a wide range of metering pumps for all types of 2-part materials



Ashby Cross Co.

28 Parker Street, Newburyport, MA 01950 USA ■ (978) 463-0202 ■ FAX (978) 463-0505

www.ashbycross.com

Circle 212 on Reader Service Card

ANCHORS

ANCHOR

LARGEST INVENTORY OF NEW & USED IN THE U.S.A.

FAX: 713/644-1185
WATTS: 800/233-8014
PHONE: 713/644-1183

CHAINS

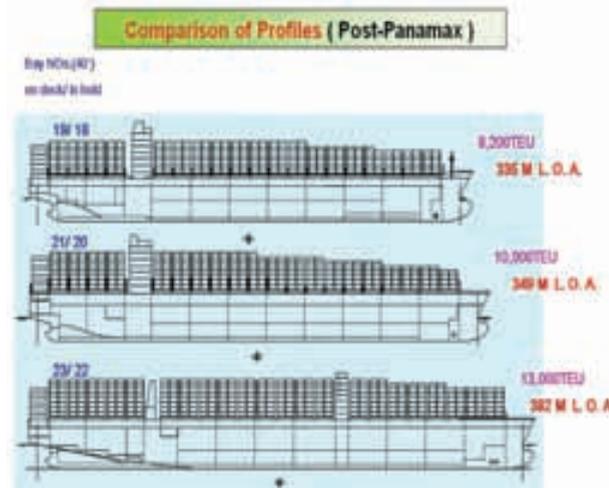
MARINE

ALL TYPE ANCHORS & CHAIN
ABS, LLOYDS GRADE 2, 3, K-4
CHAIN & FITTINGS

P.O. BOX 58645
HOUSTON, TX 77258

sales@anchormarinehouston.com
www.anchormarinehouston.com

Circle 210 on Reader Service Card



Size comparison of container ships. The separation of deckhouse and engine room is clearly recognizable for the 13,000 TEU ship.



Navigating the future with care

INNOVATION
PERFORMANCE
RELIABILITY

"Simplified" VDR



JCY-1700S

(Voyage Data Recorder) Fully Type Approved

- Extensive Worldwide Service & Installation network
- Strategic stocking depot locations worldwide
- Small, compact and lightweight components for easy installation
- Swift on-site setting of parameters for various interfaces
- External Memory Expansion for data archiving
- On-line Maintenance and Diagnostics Option
- Fixed or Float-Free Capsule Option

ECDIS



JAN-701/901 Console Fully Type Approved

- 18.1" or 23.1" Color LCD Console or Desk Top versions
- ECDIS with Conning Display and/or Radar Overlay Options
- Flexible Analog & Serial interface capabilities
- Displays Vector and Raster Charts
- Multi-view function allows 2 charts to display simultaneously
- Ease of operation supported by high-speed drawing and processing



Japan Radio Co., Ltd.

1021 SW Klickitat Way, D-101 Seattle, WA 98134
206-654-5644 phone 206-654-7030 fax

www.jrcamerica.com

OSG Signs Time Charter

Overseas Shipholding Group, Inc. signed an agreement with Parakou Shipping Ltd., an international shipping company based in Hong Kong, to time charter four product carriers for 10 years each. The vessels, two of which are already under construction, will be built by STX Shipbuilding Co., Ltd. in Korea

and are scheduled for delivery to OSG in September and October 2006 and April and June 2007. The product carriers, all sister ships with a capacity of 51,000 dwt and six segregations, will be able to transport petroleum products, vegetable oils and IMO III chemicals. Delivery of the vessels will increase the number of product carriers in OSG's fleet to 50.

Wärtsilä Power for Keppel FELS Rigs

The semi-submersible drilling platforms for Keppel FELS will be equipped with generating sets and steerable thrusters from Wärtsilä. Wärtsilä Corporation has been awarded contracts with a total value of more than \$60 million, by Keppel FELS Ltd. in Singapore



for 32 diesel generating sets to power four jack-up rigs and two semi-submersible drilling platforms. The combined output of these orders is about 115 MW. Wärtsilä will also supply steerable thrusters for the semi-submersible platforms. The rigs and platforms are being built at Keppel FELS Ltd for the Danish company A.P. Møller - Mærsk A/S. The first of the jack-up rigs is due for delivery in the fourth quarter 2007, and the semi-submersible platforms are due to be delivered in 2008 and 2009.

The four jack-up rigs are of the CJ50 design from Marine Structure Consultants. They can operate in water depths of up to 106.7 m, and drill high-pressure wells down to 9,144 m. The main power supply on each rig will be provided by four eight-cylinder Wärtsilä 26 generating sets with a combined electrical output of 9,600 kWe.

Each semi-submersible will have a dynamic positioning system with eight electrically-driven Wärtsilä Lips steerable thrusters. The platforms will also be able to be attached to a pre-laid mooring system. The semi-submersible platforms will each be equipped with eight 16-cylinder Wärtsilä 26 generating sets having a combined electrical output of 38,720 kWe.

Circle 11 on Reader Service Card

Teekay Implements Bunker Procurement Software

Teekay Shipping Corporation has implemented Bunker Logistics' BunkerDashboard Bunker Procurement Software, which is designed to help users and distributed teams improve their knowledge base, collaborative efforts, productivity and performance.

Mark Cameron, Director of Procurement for Teekay Shipping, said "We wanted to streamline and improve our bunker procurement processes while increasing the integrity and value of the data we were capturing. With LQM's Bunker Dashboard, we have found a solution that helps us improve our processes and allows us access to the most current market data to support management decisions and assist analysis."

Circle 12 on Reader Service Card

Shipowners

Charterers

Shippers

Banks

P&I Clubs

Hull Underwriters

Trading Companies

Governments

THE POWER OF PARTNERSHIP

Legal Services for Global Business

HB

HEALY & BAILLIE

Healy & Baillie, LLP
61 Broadway
New York, NY 10006-2834
T: +1 212-943-3980 F: +1 212-425-0131

Healy & Baillie, LLP
The Lock Building
20 Marshall Street, Suite 104
South Norwalk, CT 06854-2282
T: +1 203-354-1360 F: +1 203-354-1363

Healy & Baillie
Suite 1303, Dina House, Ruttonjee Centre
11 Duddell Street, Central, Hong Kong
T: +852-2537-8628 F: +852-2521-9072

www.healy.com

NEW YORK

NEW JERSEY

HONG KONG

CONNECTICUT

Circle 246 on Reader Service Card





One sure way to keep the cost
of satellite communication above water



It's time for StratosOne

Time is money, and StratosOne can help you save on both with an all-in-one, optimized solution that provides improved data handling efficiency for all of your shipboard messaging. StratosOne is the leading messaging solution for maritime users:

- Unified solution for e-mail, fax, telex and SMS messaging
- Advanced file compression and full-duplex transmission to reduce cost and transmission time
- Industry-leading virus protection and SPAM filtering
- Onboard billing for crew e-mail and SMS messaging
- Support for Inmarsat, Iridium, MarineSat/LandSat and VSAT platforms

**Don't let the cost of satellite communications drag you under.
Contact Stratos today for a free StratosOne CD.**



Toll Free (North America): 1 888 766 1313 Worldwide: +1 709 748 4233
info@stratosglobal.com www.stratosglobal.com

Come see us in Seattle at
Pacific Marine Expo, Booth 1344

Aker Yards to build AHTS for NorSkan Offshore

Aker Yards has been awarded a contract worth approximately \$47.5 million by NorSkan Offshore Ltda., Brazil, to build an Anchor Handling Tug Supply (AHTS) vessel. Delivery is scheduled for April 2007. NorSkan Offshore is an offshore supply vessel company owned by Solstad Offshore ASA and DOF ASA in Norway on a 50/50 basis, and is

focusing on the strong Brazilian offshore vessel market.

Teknotherm Takes Over Unitor HVAC Business

Unitor Ships Equipment (now part of Wilhelmsen Maritime Services) has reached an agreement with Teknotherm AS to transfer its activities in the shipbuilding heating, ventilation and air conditioning (HVAC) market to

Teknotherm AS. The transfer includes HVAC products, a group of engineers in Poland as well as Unitor's order backlog of HVAC systems.

Teknotherm will represent a continuation of Unitor's HVAC activities in the shipbuilding market with respect to technical solutions, market contacts as well as after-sales and service capabilities. Unitor will continue to strengthen

its refrigeration spares and service offer, and Teknotherm will, through a separate agreement, appoint Unitor as HVAC service subcontractor at selected locations.

Teknotherm AS was founded in 1926 and has grown to be a worldwide manufacturer and supplier of marine refrigeration systems.

Circle 13 on Reader Service Card

Aker To Build AHTS for Farstad

Aker Yards signed a contract worth \$69 million to build an Anchor Handling Tug Supply Vessel (AHTS) for Farstad Supply AS, to be delivered in the summer 2007.

Farstad Supply AS is wholly owned by Farstad Shipping ASA.

The new vessel will be the most advanced within the Farstad-fleet. The 27,500-hp vessel will be one of the biggest and most advanced vessels within its segment.

Vessel type	UT 732 CD,
	Anchor Handling Tug Supply Vessel
Contract value	\$.69 million
Yard	Aker Brattvaag, Langsten
Delivery time	Summer 2007
Length	304 ft. (92.7 m)
Deadweight	4,800 tons
Design	Rolls-Royce Marine

ShipConstructor Supports STEP Import/Export

Albacore Research Ltd. (ARL) are cooperating on the development of a translator that will enable ShipConstructor to import and export STEP files containing pipe, HVAC, and equipment data.

This will enhance ShipConstructor's interoperability in large shipyard environments, allow organizations to more easily access legacy data, and simplify the long term storage and retrieval of archival product model data throughout the entire product lifecycle. IPT is developing the translators using the all-new ShipConstructor Application Programming Interface (API) creating intelligent distributed system objects directly in the ShipConstructor Product Model Database.

Initially, IPT will develop a translator that enables ShipConstructor to import and export STEP files containing pipe, HVAC, and equipment data. IPT will also develop complementary tools that allow pipe shops to use STEP data most effectively.

Subsequent development of the translator will focus on additional data types, such as ship hull molded forms and ship structures.

Circle 14 on Reader Service Card

"With ILS, we are able to compete with our biggest competitors without making huge investments."



Ulrich Freudenberger and Maïke Pabst, Managing Directors

"We signed up for the ILS e-marketplace because it offers us the exposure of advertising, along with the lead generation of an aggressive marketing campaign at a fraction of the cost. It provides us with highly qualified leads and has introduced us to some significant customers that would never have known about us previously. With ILS, we are able to compete with our biggest competitors without making huge investments. The amount of business ILS has delivered is worth a ten-year subscription."

Ulrich Freudenberger, Managing Director at Inter Seas Services and Trading GmbH, NORDERSTEDT, GERMANY

We're proud to have kept Inter Seas Services and Trading GmbH steaming ahead. We thank them and all of our longstanding subscribers for letting us be a part of their success.



Inventory Locator Service,® LLC
1-800-233-3414 (North America) • 1-901-794-5000 (Worldwide) • 1-901-794-1760 (Fax) • ebusiness@ILSmart.com • www.ILSmart.com

Circle 251 on Reader Service Card

**SEVERN TRENT DE NORA
MARINE SEWAGE
TREATMENT**

OMNIPURE™

Don't let confusion over discharge regulations tie up your vessel.



Treat Black and Gray water economically with the Severn Trent De Nora Omnipure Mariner

- USCG and IMO certified
- 12 persons black and gray water, 25 persons black water only treatment
- Modular design, very light weight with a small footprint
- 37"L x 34"H x 24"W
- All three components are designed to fit through hatches
- No chemical additives needed
- No sludge to remove
- No biological mass to maintain
- Minimal maintenance
- No screens or filters to clean



1110 Industrial Blvd. • Sugar Land, Texas 77478 USA
Tel: + 1 281 240 6770 • Fax: + 1 281 240 6762 • sales@severntrentdenora.com
www.severntrentdenora.com



Circle 289 on Reader Service Card

MARITIME REPORTER AND ENGINEERING NEWS

www.marinelink.com

The U.S. Gulf of Mexico

The Recovery Begins

Photos & Stories by Don Sutherland

November 2005

It's easy to spot the river from above, but where does the bayou end? Even locals don't recognize all their landscape, so many landmarks gone. Taken September 18, before the additional flooding of Rita. (Photo: Don Sutherland.)

Gulf of Mexico Resources Guidebook

37

The U.S. Gulf of Mexico

Putting the Pieces Back

By Don Sutherland

Houses were in the water, and boats were on the land. They were up on the levees, out on the highways, deep in the woods — towboats, barges, shrimpers, sometimes behind tall trees that looked too thick to bend out of the way. How, in the name of Mother Nature, did they get in there? How would they get out? How would they all get out?

It was a spectacle for the first few minutes as the helicopter sped past, with rooftops poking through waters and motorboats, upside down, drifting through onetime back yards. But as the helicopter continued south, the spectacle became more like a sideshow, something to gawk at, like an accident at the side of the road -- a battered church here, a pile of school buses there, cars that might have been new weeks before — all in the water, up to the sills and higher. The panorama was unbroken, continuous, contiguous, blending waters here blue, there brown, some smeared in dark rainbow hues, punctuated by flotsam pressed against the stands of trees, the shoulders of highways.

The helicopter sped over the littered, lifeless landscape for twenty minutes, thirty, after a short stop at New Orleans for fuel. "Who had the big idea of putting headquarters in Alexandria?" said **Rudy Teichman**, the founder of T&T Marine Salvage of Galveston, Texas. He had parts to deliver, a small box for something aboard the Big-T, the company's 600-ton crane barge that arrived in position a few days before. The drive by car would have been four hours or more -- from Alexandria, to Lafayette, to Baton Rouge, to New Orleans, to Belle Chasse, to Venice where the crane was — if the roads were open. Information was still spotty that 18th of September, within three weeks of Katrina's hit, but it was a safe bet there were closures east and south of Baton Rouge. The helicopter sped past bits and pieces, the roof of a house on one side of a bridge, a wall with a doorway on another, ongoing for forty minutes, fifty.

The spectacle and the sideshow became a dull thud, a repetitive redrawing of endings. A dream here, a career there, a future, the things people keep in cabinets and drawers, loves, lives.

Port Sulphur, Buras, they were down there somewhere, or at least the memory of them was. They were

part of the territory in Katrina's eye when she came ashore. Near Empire was the icon of the storm for southern Louisiana, two large yellow boats, 160-footers, high and dry with their keels on the divider of La. 23. Nearby, a stack four or six deep, of shrimpers of all sizes, outriggers broken and tangled. Everywhere, in ones and twos, a quarter or half mile inland from the Mississippi, lay the large steel shrimpers, some standing upright, some on their sides.

"You think this is bad?" said Teichman. "Wait till you see Empire. We can't fit the Big-T through on the Mississippi side, so we'll have to come in from the Gulf side, past the bays and bayous. That's the long way around. I'd hate to get stuck in there during hurricane season."

Teichman and the pilot, down for the duration from Alaska, discussed places to land at Venice, whose littered terrain looked treacherous. A small open patch along a short channel looked like it would work, across from an enormous crane barge — Southern Hercules was the name on the stern -- with half to three-quarters of its length driven up on the shore. At on the opposite shore was the Big-T and its entourage of tugs and small workboats. The Big Boomer, all foredeck and fenders, sped Mr. Teichman and the box of parts to the Big-T. Updates were exchanged, a few instructions given, then the helicopter rose for the return to Alexandria before the sun disappeared.

It was early in a salvage operation of exceptional scale, but some of its patterns were already clear. Nothing would be easy. Nothing would be quick. There was much to learn.

Incident Command Alexandria: The Big Picture

Whose idea it was, Alexandria had its attractions from a logistical point of view. Foremost, perhaps, was the airport — a regional setup in scope, but accustomed to midsize commercial jets and, unlike New Orleans, mostly intact. "We'd like to welcome and thank the relief workers who've joined us," came the voice from the cockpit in a flight out of Atlanta, although there was only one white vest with a red cross aboard, "emergency relief" printed beneath.

Alexandria was far enough north for the worst of the

storm to miss, most of the locals describing a hosing and high winds. But then came the flood of humanity from New Orleans and south, and active Coast Guard and reservists, and Navy personnel, and people from the Corps of Engineers and NOAA, and VPs and presidents of salvage operators working through the ASA (American Salvage Association). "The Louisiana Convention Center?" said an officer in an Alexandria P.D. prowler, "make a right on MacArthur, it's almost straight across from the motel, used to be a Day's Inn, don't know what they call it now ... "

Including its access or frontage roads, MacArthur Drive is an eight-lane thoroughfare, with US. 71 AND US 165 combined for a link to I-95, thence I-10, the road to New Orleans and beyond — places like Gulfport, Stennis and Pascagoula in Mississippi, and points south in Alabama. Considering the range of destruction, Alexandria among towns unscarred must have seemed centrally located.

The buildings on both sides of MacArthur are low like most along suburban byways, malls and fast-food stops, and perhaps the area's greatest concentration of hotels and motels — all of them packed, dirty according to residents including Coast Guard personnel whose own homes had been lost, trashed by civilian transients according to managers, but with roofs overhead and clean linens. Within short range of the lodgings was the equally squat convention center. It was no Hynes or Javits or Moscone, or even Moriel, but its offices had doors that could close-in on briefings, its exhibition floor had a broad open expanse where tables and chairs, computers and charts, formed offices of sorts where people from each service could mix and confer.

"It's the first time so many different agencies have come under one roof," said **Capt. Jim Wilkins**, Supervisor of Salvage and Diving for the U.S. Navy's Sea Systems Command, "military and industry together. But each has a jurisdiction and responsibility. Sometimes they might overlap, there sometimes could be gaps. They can coordinate here face to face."

Topping the agenda was the creation of an agenda -- building a list of priorities in the wake of "the most devastating hurricane to strike the United States," in the words of the Coast Guard. A national emergency

Together

Heading down Route 90 in the direction of Grand Isle, in Boutte, we stopped on a whim, with a sense of futility, at a motel to inquire. Incredibly, they had a vacancy. Forty-five a night, including fridge, microwave, and local phone service. We found someone's sweat shirt and Speed Stick in a drawer, and a bowl with a can of beef hash in the microwave. So what? It was a paradise. In fact, almost a miracle

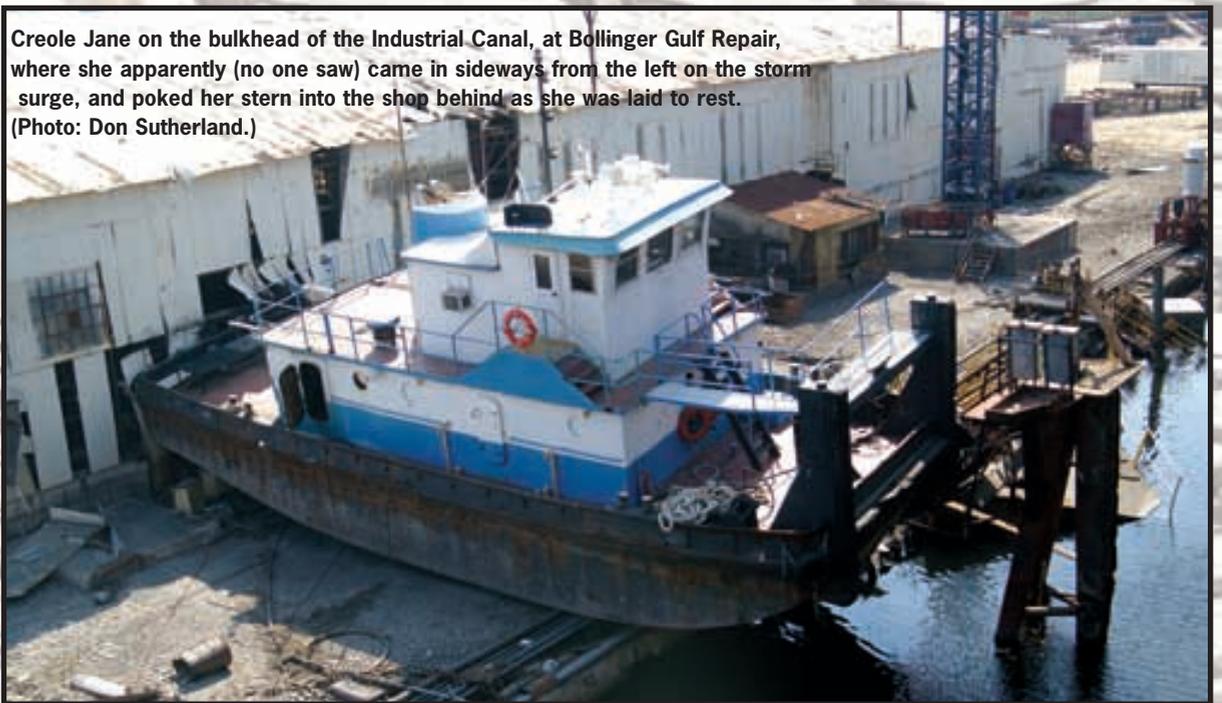
was already underway and the object now was to avert a national crisis. The waterways of the region, the rivers and canals and ports, are the principal routes of domestic petroleum and seafood inbound, grain and coal outbound. The place to start, for national agencies, was the national well-being -- local regions' needs were also high on the agenda, but they would be next.

While many ports were damaged — or nearly obliterated, in the case of some between Belle Chasse and Venice — the main maritime arteries were in fairly good shape. The Intracoastal Canal and the Mississippi were relatively clear of wrecks and debris, and could quickly be opened to daylight navigation. Along most of the routes, the main task was to re-establish aids to navigation and get transit back to 24 x 7. "That we should have by the end of this week," said the Coast Guard's Master Chief David Coffman by Sept. 17. "We had to wait for searches and researches to be completed," with NOAA and the Army Corps ascertaining where, perhaps, even a trailerable 55-footer might not wish to go. Besides maritime wrecks, there could be trees in the water, and pieces of bridges, and sometimes

A lot of jack-up boats endured Katrina intact, in jacked-up position — but not all. (Photo: Don Sutherland.)



Creole Jane on the bulkhead of the Industrial Canal, at Bollinger Gulf Repair, where she apparently (no one saw) came in sideways from the left on the storm surge, and poked her stern into the shop behind as she was laid to rest. (Photo: Don Sutherland.)



Bewildered and afraid, somebody's hungry dog had been tied for unknown reasons to the car. Port Sulphur fire chief Charles Bondi fed her a MRE, and bottled water from the bag. She especially enjoyed the shortbread. (Photo: Don Sutherland.)



people. There were more than 900 navigational devices in the Gulf Intracoastal alone, Master Chief Coffman said, but the day before they'd worked 208. They

were getting there.

"The thing we always try to impress upon folks," said **Roger Parsons**, Director, Office of Coast Survey, "is that

our assets are deployed during non-emergencies, teams are pre-staged. We had 22 NOAA vessels ready to go, with fathometers and sidescan sonar to deter-

mine what's sunk in the water, or where it's silted-in." Said **Howard Danley**, Chief of the Navigation Services Division, "In Alexandria, we had two phone conversations daily, conducted with the Captain of the Port of New Orleans and all Federal players, to keep positive on what assets were available, what their capabilities were, what results of previous days results. I thought the coordination was outstanding."

It was the Industrial Canal, toward the east end of New Orleans, connecting the Intracoastal, the Mississippi, and Lake Pontchartrain, where immediate attention had been required. Katrina's storm surge had tossed massive structures around — towboats, barges, drydocks — like bathtub toys. Before bargeloads of rocks could be brought to the lake to patch-up the levee, the way had to be cleared. Bisso Marine was near at hand.

With commercial navigation on the verge of recovery, attention in that third week was turning to local conditions -- things off the national highway, but requiring prompt attention. "We have two heavy lifters," said the Navy's Capt. Wilkins, "Donjon Marine, and they've subcontracted T&T.

Other ASA members have contracted privately for removing large barges from levees, raising the larger vessels and the like, and the smaller commercial and recreational vessels can be assisted by local sources."

The costs would be charged to the insurers, or to the otherwise responsible parties " the salvage operation will not come out of the taxpayer's pocket."

Season's Greetings

"We have been contracted to the U.S. Navy for salvage and related services in the southern Atlantic zone; which includes the Gulf," said **John Witte Jr.** of Donjon Marine, "a contract we've won every five years since 1979. But in an event as all-encompassing as this, nobody's ever had the training."

Witte describes a triad set-up by FEMA, the Corps of Engineers, and the Coast Guard, to identify and fund wreck removal. The Navy was brought in to work as a conduit for technical expertise. "We joined the effort on the Saturday after the storm," said Witte, "to support the Navy with salvage assistance and our employees. We also supplied a commercial mechanism to provide all the services that are needed," which by the third week of October included subcontracting to local operators.

NAVAL ARCHITECTS
MARINE ENGINEERS



Aker Marine

TECHNOLOGY FOR MARINE PROJECTS



Aker Yards AH06
Designed by Aker Yards Project (www.ay-pro.com)

Vancouver, BC, Canada
Tel: +1 604-730-4200
Fax: +1 604-730-4297
Email: info@akermarine.com

Houston, TX
Tel: +1 713-981-2012
Fax: +1 713-270-2944
Email: info@akermarine.com



Team Salalah



Pionero

www.akermarine.com

Preferred for Innovation

Circle 205 on Reader Service Card

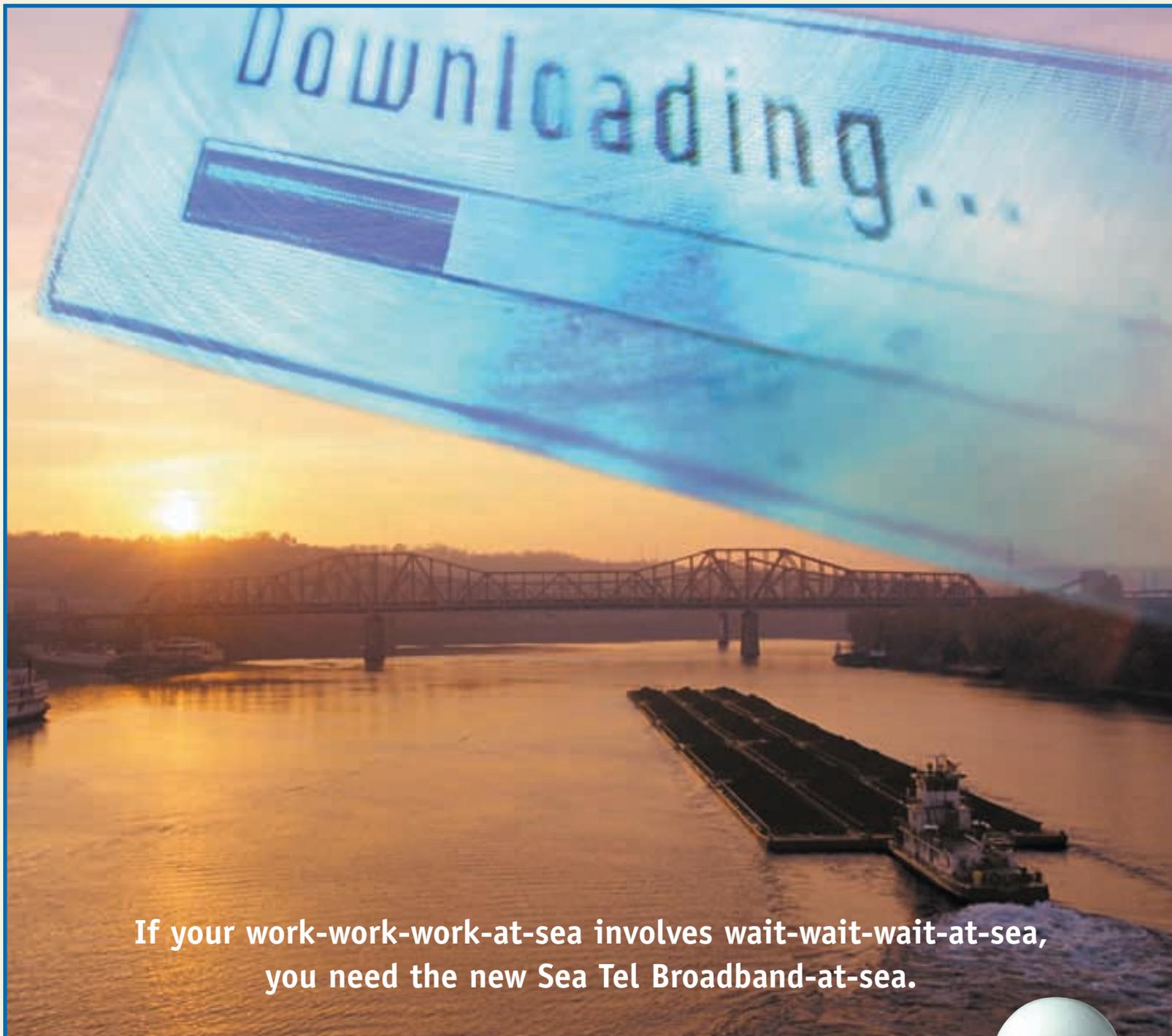
RESPONSE IS OUR MIDDLE NAME

Rescue Towing
Lightering
Salvage
Firefighting



For information call us at:
206-332-8076
or visit:
www.marineresponsealliance.com

Circle 263 on Reader Service Card



If your work-work-work-at-sea involves wait-wait-wait-at-sea, you need the new Sea Tel Broadband-at-sea.

Introducing the WaveCall 4003. Business level connectivity wherever you cruise.

Tired of waiting for dial up or downloads at sea? Imagine Internet connectivity offshore the same as you get on shore - always on, lightning fast and multiple users. ✦ Just one meter in size, the WaveCall 4003 gives you blazingly fast inbound and outbound speeds for downloading large files, streaming video, voice, video teleconferencing or simply surfing the web at will. ✦ With coverage from

Airtime Cost Comparison

	WaveCall 4003	Inmarsat 77 ¹	Inmarsat B ²
Download speed	512 kbps	64 kbps	64 kbps
1 GB file download	256 min	2,080 min	2,080 min
Cost/MB	*1	\$16.53 ISDN \$36.00 MPOS	\$18.60 (\$9.00/min)
Cost/GB	*1,000	\$16,640 ISDN \$36,000 MPOS	\$18,720

4.15.03. ¹Source: KVH website ²Source: Delta Communications website

North to South America, Northern Europe to the Med, and soon in the Far East, the 4003 also is the most cost efficient. Perfect for business.

Perfect for family and crew. Perfect. ✦ The WaveCall 4003 from the name you trust, Sea Tel. Affordable broadband Internet-at-Sea™ in a compact dome. Work without the wait.



Compact and rugged, the 4003 stands up to all conditions.



Look to the leader. Look to Sea Tel.

Sea Tel, Inc. 925.798.7979 ✦ www.seatel.com ✦ Sea Tel Europe 44 (0) 2380 671155

Circle 228 on Reader Service Card



From here it's a quarter- to half-mile to the water, according to the salvors at Titan. The boats are high and dry, but their removal had to wait for other parts of the same highway to be de-flooded. (Photo: Don Sutherland.)

Witte describes the "shock value" of his first flyby over Plaquemines Parish — where everything from Belle Chasse to Venice and Pilot Town beyond is or was located — as "sobering." As much as the sight of it all would prompt immediate responses, the future in this scenario was as sobering as the past. The Atlantic zone does not have just hurricanes, it has a "hurricane season," which like hunting and fishing seasons has a formal closing. It's at the end of November. Katrina, in the final days of August, left plenty of time for an encore.

Not every storm for the season of '05 has been a hurricane, of course. With winds under 75, they're just "tropical storms." But they're impressive enough to get names, and to recommend against moving high objects through the ocean. There was, for example, Ophelia, and the Donjon 1,000-ton crane Chesapeake 1000. With the tug Atlantic Salvor, the crane sat in the bay of its name for well over a week. The tug Powhatan with the Columbia, a 400-ton revolving derrick barge, was similarly confined by the elements. With the Powhatan and the Columbia moving on for Alabama, the Chesapeake 1000 finally arrived at Venice on September 29.

"The Captain of the Port of New Orleans had anticipated the hit," said Kevin Teichman, representing a second generation at T&T. "Before the storm had hit, they'd moved to Alexandria — I assume they expected to have quite a lot of damage — and requested our 53-ft. command trailer." Just after the storm, the Coast Guard requested helicopters, and Teichman found himself on his first of several flights over Venice, and the tip of another finger in the Louisiana Gulf, Port Fourchon, "taking note of how many vessels were beached or sunk. I remember the first time I flew over there, and the destruction and devastation was just overwhelming — it's something I'll never forget."

On Sept. 2, they moved the trailer to Belle Chasse "and used it for the air ops at the navy base, where the power had gone out. Meanwhile we were preparing our barges to come over. We didn't expect to find services or hotels where they were headed, so we put quarters by Martin Quarters of Galiano on with complete systems to be totally self sufficient, bunks and showers, and provisions for large supplies of diesel and gasoline. It took about a week to get the barges ready, and we mobilized at Venice on September 10."

With winds in the range of 150 mph,

The **ULTRAJET[®] 305**
 Outstanding Performance & Quality
 for demanding applications

Ultra Dynamics Marine, LLC
 Tel: (614) 759 9000 Fax: (614) 759 9046
 Email: sales@ultradynamics.com www.ultradynamics.com

Circle 301 on Reader Service Card

Gulf Coast Resources Guide

it's easy to envision the shingles, the siding, the roof, the walls of a house blowing away, cascading like toothpicks and twigs across the landscape till hitting some object that remains, for the moment, immovable. Therein lay the heartbreak for the residents of the parish, who this time lost their own Russian Roulette. According to one Mississippi pilot, it's happened before — he cited the wipeouts of Betsy in 1965, and Camille in 1969 — and seasonal migrations are part of the lifestyle. "We have to pull out of Plaquemines Parish first," he reported, "so we don't collide with whoever's leaving New Orleans." Yet most of the time, their migrations have concluded back at home — damaged, perhaps, but there. It was different this time. Not houses and stores one by one, but entire towns will probably need replacing before this recovery is complete. And that assumes everyone chooses to play Russian Roulette again.

It's easy to envision light frame buildings splintering away with such violent winds against them, but there were a few things that proved immovable. A masonry church looked structurally intact, as did even the old courthouse, a shell — burned years ago by felons, in a tale of local lore. The old ruin still stood, still handsome, even, and proof that though powerful, Katrina's winds were not all-powerful. So how did they find the force to top levees with barges? Not one or two, but thirty or forty? What kind of breeze leaves a stone building standing, but carries steel structures twice the length over the shore and across the land to a highway? Or further, to the middle of nowhere?

The wind has an accomplice. If the tide raises all boats, so does the storm surge. The wind-whipped water becomes a cascade, blown out of its bed into the landscape. Depending on where, by whom, the description is of a wall or a mountain, twelve to thirty feet high (Camille's in 1969 is given at 24 feet), the bearer of bad tidings from everything loose, and much fastened-down that was fragile. How can the surge place vessels beyond both the east and the west banks of the river? "The wind blows from the west," the old pilot explains patiently, "then from the east."

It's a big river around the 50-mile marker, a couple miles wide and deep enough for ocean tankers. There's plenty of water for churning. The wind subsides and the surge subsides, and the objects are dropped as the flood recedes. They look quite mysterious where they sit, great curiosities, but with the facts known, the force of hydraulics is easy to picture. Where it stretches the imagination is further north, at New Orleans proper. The river's still mighty, but twisty and looking civil. The Industrial Canal looks calmer yet, hard to imagine enraged. But drydocks akimbo suggest its mood swing, and then there was Miss Darby, who took a spin from Bollinger shipyard at Algiers up to Gretna — and she was not alone.

Bollinger's Natural Wonders

Bollinger Shipyards operates 14 locations from New Orleans to Texas City, each undoubtedly able to tell tales of their day with Katrina. Two that seem representative of nature's dark side, and the storm's quixot-

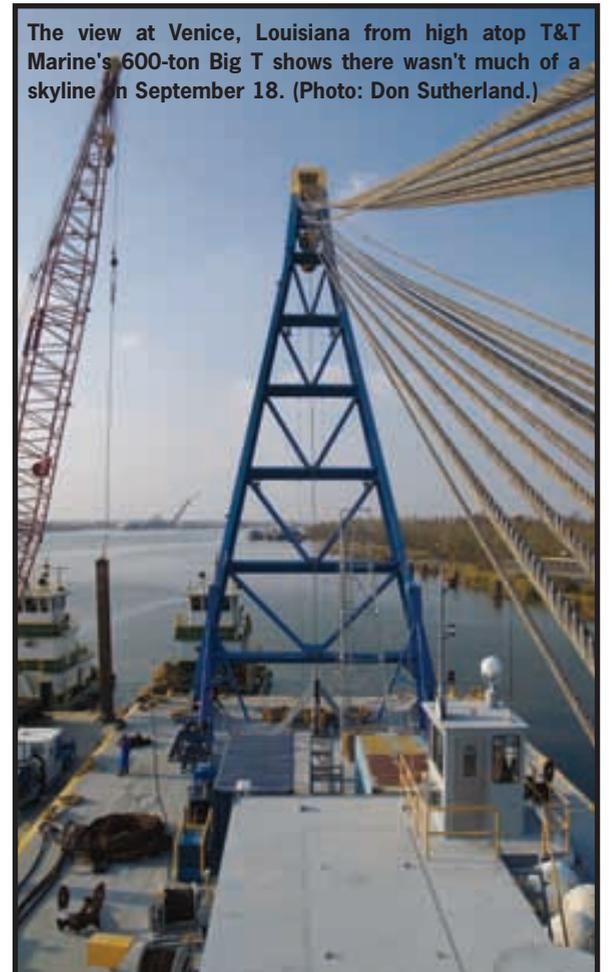
Bollinger and Bisso crews confer on the means to extract tug Rhea I. Bouchard from drydock Miss Darby, after their unscheduled tour up the Mississippi during Katrina. (Photo: Don Sutherland.)



Tug and cranes of Bisso Marine come into place to lift tug Rhea I. Bouchard out of her drydock, beached after a two-mile spin during Katrina. (Photo: Don Sutherland.)



The view at Venice, Louisiana from high atop T&T Marine's 600-ton Big T shows there wasn't much of a skyline on September 18. (Photo: Don Sutherland.)





Robert Socha demonstrates the old Bollinger spirit for getting the drydock Miss Darby, with a tugboat inside, off the Gretna shore. He was asked to desist until the surveyors could finish their work. (Photo: Don Sutherland)

ic decisions come out of the New Orleans area.

A third Bollinger installation in the area, Quick Repair on the Harvey Canal, seemed more drenched than damaged. When we dropped in on September 21, engineers at pitchometers were making their precise measurements of propellers, of which a large inventory — for which there might soon be a spike in demand — sat orderly on their shelves, to all appearances oblivious to the tempest. There are probably good reasons, with an engineer's explanation for why one waterfront locale gets mashed and another barely stained. But until the explanation's given, it all may seem arbitrary, random — or part of a mysterious plan. That night on TV, a report was given of a predominantly Catholic neighborhood whose lawns were pulverized, except for the statues of the Virgin. Those stood erect and, like Bollinger's propellers, seemingly untouched. You can make of that what you will, and plenty of people did.

But over on the Industrial Canal, between the River and the Lake, things ran wild for a time. Many of the same forces that broached the city's levees shifted the architecture and appurtenances of the waterways, leaving a world upside-down and backwards. The toll here was against property, and industrial property at that, with nowhere near the flash, the guilt and rhetoric that followed the human and emotional toll in the Ninth Ward, adjacent. But being less loaded, they permit a cooler appraisal of our place in a world we sometimes think tamed. Too many of our structures and our insti-

tutions, it turns out, were built for sunny days.

On Lake Pontchartrain's south end, for example, is a riverboat of sorts — a casino built on a barge and operated by Bally's, but technically capable of navigation — whose reason for being was to part money from fools. One end broke free of its mooring, swinging around from its dock toward the shore, sweeping-up a sailboat or two from the marina next door and using them to cushion its landing on the edge of the parking lot. The lot itself was strewn with yachts and sailboats — someone said there were a hundred, but we're sure it was under sixty — feeding all the more into the powers of imagination. Sitting athwart a parking-lot median, the Maximum Pleasure probably symbolized something now, something ironic, that she hadn't when first named.

Where tongue-clucking ironies were ripe for the picking at the wrecked gambling hall, the Industrial Canal was more of an "ugh." The surge had raged-past at the twelve-foot mark, tumbling furniture in offices and carrying sections of buildings away. Some of the buildings at Bollinger's Gulf Repair are said to have survived Louisiana storms since between the World Wars. Now it is thought they'll have to be torn down. Not only the water, but a generous supply of mud had trailed through -- and while the water could recede or evaporate, the best the mud could do was to lie there and harden. By the time of our inspection on the 22nd, the mud had allgatored into tiles that bordered on attractive, except for the dust they gave off. A Bobcat

darted and spun, scraping the mud carpet up into mounds.

How did she get there? Those engineers could explain it, we feel quite sure, but the pushboat Creole Jane was up on the bulkhead of the Industrial Canal, in sort of a cul-de-sac she should not have fit. She must have arrived from the north, for a set of stout poles would arrest transit to or from points further south. She would have been traveling sideways. Just a few yards off her knees was the solid blank wall of a drydock, with a huge Reinauer barge within. Astern was a building with sheetmetal walls, too close for Creole Jane's liking — as she settled ashore, her fantail rammed through.

A second Reinauer barge sat in a drydock nearby, like the first in for conversion to double-skin, this one at an angle from jostling by Katrina's force. And quite a force it must have been, for evidence elsewhere tells us one thing: when Bollinger sets-up a drydock, it's set-up sturdy.

The drydock Miss Darby is the smaller of two at the Algiers yard, measuring 160 ft. (plus aprons) by over 70 ft. by around 30 ft. high, with a lifting capacity of 1,800 tons. Anyone who has difficulty visualizing those dimensions could picture three-story houses, six of them in two strings of three; combined, their footprint would approximate that of Miss Darby, also known as Dock 2 at the Algiers yard. Dock 1 is even larger, with a 4,200-ton capacity and equal perhaps to 10 three-story houses, in two strings of five. Of all the

maritime facilities in New Orleans, the Algiers yard with its massive structures is probably the best-known to the public. It could be seen across the river from the approach to the Moriel Convention Center.

At the time of Katrina, the tug Rhea I. Bouchard occupied Miss Darby, her upper house looming perhaps one story higher than the drydock's wall. A familiar sight in New York, the Rhea had come south to be fitted with an Intercon coupling.

Nobody's sure exactly what happened during the storm — no eyewitness has come forward — but when it was all over, about half of the drydock's girth was astride the bank of the river at Gretna, a mile-and-a-half or two upriver from Algiers, listing to port by maybe ten degrees. The Rhea stood stock upright within, as if still in the yard. Their unseen journey had carried the pair under the Crescent Connection, the twin cantilever bridges that conduct I-90 east. Neither bridge was struck by the pilotless mariners, by some stroke of good fortune — make of it what you will. What the Bollinger organization was trying to make was a situation amenable to workers. Most had left with the evacuation of the city, and most had nothing to come back to. Wherever the general population had scattered, so did the shipyard workers and their families, their responsibilities, their kids' need for school. There was no telling when

they'd return, if at all.

How do you run a shipyard without workers? The question was as critical to the New Orleans recovery in general as to the Bollinger companies and their customers. In order to boost its own economy through jobs, the city had already built one of the drydocks at Gulf Repair, leasing it to the company for 99 years.

"We had competition for labor," said **Robert Socha**, the company's vice-president of sales and marketing. "Not just from other shipyards, but from entire other industries." Word was going around that Burger King offered a \$6,000 bonus for people to come make burgers. With thousands of roofs to be patched, houses to be repaired, or torn down and replaced, there was plenty of work for whomever can swing a hammer. "I was offered a thousand dollars a day," said Mr. Socha, "to drive a Bobcat. Don't think it wasn't tempting."

Instead, Mr. Socha rooted around in some muddy places, finding three dozen Bollinger caps and 150 shirts. "Maybe our guys coming back didn't have clothes," he explained. Aside from the mud, the garments were in good shape, so they went into the washer-dryer in Mr. Socha's West Bank home, not far from the beached Miss Darby.

Also assembled for workers without homes were trailers supplied by FEMA — 69 of them by press time, with a request in for 40 more. The ones we saw

were roomy and comfortable, easily accommodating three. Depending on which yard, Bollinger will put-up workers only, or workers and spouses. "Quick Repair normally has 300 people, including subcontractors," said Socha,

"at the moment there are about 100. Altogether in the New Orleans area, we're looking for about 500 people — from fitters, welders, electricians, machinists, helpers, to safety people." Anyone interested should peruse the

What the show is all about — Darryl prepares for heavy lifting high atop T&T's 600-ton Big-T. (Photo: Don Sutherland.)



(c) 2005 DON SUTHERLAND



Blast into the future with the advanced technology of the new X-Caliber DC water pressure system. The stealthy X-Caliber delivers high performance water pressure that will invigorate showers, and dramatically improve overall water pressure system capability.

ADVANCED FEATURES

- Adjustable cut in pressure
- Operates on 12 or 24VDC
- Under voltage protection
- Anti-flooding protection
- Variable Speed
- Adjustable power setting
- Over voltage protection
- Over current protection
- Dry run protection
- Rotating bracket

SPECIFICATIONS

MAX PRESSURE	67 PSI (4.5 BAR)
MAX FLOW	10 GPM (38 LPM)
SUCTION/DISCHARGE	3/4" FPT (METRIC ADAPTER INCLUDED)



FEATURES

- Wireless Non-electric.
- One touch dry bowl feature.
- Flushes rags, quarters, and panty hose.
- Lightest one-piece vitreous china toilet on the market.
- Labor saving installation with quick connect inlet and discharge.
- No complicated mechanical equipment in the discharge plumbing.
- Five Year Warranty



The Royal Flush Hydro-Vac is built around a simple, no-nonsense, water jet macerator. The reliability of this technology has been proven for over a decade by earlier Royal Flush models and has been demonstrated at trade shows annually by repeatedly flushing rags, and quarters while customers stare in disbelief. Royal Flush Hydro-Vac marine toilets operate on a simple principle of accelerating pressurized water through a jet to create an instantaneous local vacuum, that macerates and discharges sewage to the vessels holding tank or treatment system. There are no complicated mechanical devices such as motors, impellers, mechanical macerators, or vacuum generators to maintain. The one-piece Hydro-Vac is ideal for commercial vessels, where an easily installed, reliable, non-electric system is required. Our toilets are also available in elongated, and wall hung versions and each has a 5 year warranty and all colors match Kohler fixtures.



PHONE: 954-581-6996
 FAX: 954-587-0403
 800-662-8557
 WWW.HEADHUNTERINC.COM

HEADHUNTER
 WWW.HEADHUNTERINC.COM



Circle 245 on Reader Service Card

web site at www.bollingershipyards.com.

Socha invited us home for dinner. The missus and kids were in Texas, initially to await restoration of full services — for although the neighborhood was on high ground and hadn't flooded, there were trees down everywhere. Power was on, but so was martial law, and a curfew. The rest of the city on the east bank was, of course, largely underwater, entirely dark and abandoned. Police and military vehicles blocked each entrance. If you had passes, as workers in recovery, enforcement, or essential industries would be granted, you were accorded courteous passage. If you didn't have passes, you were accorded a firm instruction: turn around, go back. Everyone who reads the newspapers, watches TV, knows why. There were, of course, no restaurants on even the west bank, no grocery stores open. Socha's

plan was to leave the next morning, to join his family in Houston. Over a repast of peanut butter and crackers, we watched the local news — piped-in from emergency studios in Florida, not quite lip-synched — and it was definite. Hurricane Rita was going to hit. As of that night, she was worse than Katrina.

Lovely Rita

Rudy Teichman of T&T Marine would have been right in his concerns back on the 18th, about getting caught at Empire during hurricane season. Said **Kevin Teichman**, looking back, "We moved out of Venice on the 22nd, and went upriver to Bisso's facility at Mile 102 just north of Belle Chasse. It was no guarantee of protection, of course, against damage by another Category 5 storm — Lake Pontchartrain, the Industrial Canal, Miss Darby and the Rhea, all were further north yet. But at

least there was shelter at Bisso's. Venice was wide open to the elements — and, if you needed it, there was no place to hide.

Rita's approach put everything on hold. Even before the rains hit, she was preceded by high winds — and followed by them. It was no time to be lifting objects weighing hundreds of tons on cables with tall cranes. For many, it was a cue to leave town again.

We were determined to be on the scene when the Rhea came out, come hell or high water. Heading down Route 90 in the direction of Grand Isle, in Boutte, we stopped on a whim, with a sense of futility, at a motel to inquire. Incredibly, they had a vacancy. Forty-five a night, including fridge, microwave, and local phone service. We found someone's sweat shirt and Speed Stick in a drawer, and a bowl with a can of beef hash in the microwave. So what? It was a paradise.

In fact, almost a miracle.

That stretch of Rte. 90 is all commercial for maybe six miles, with a Wal-Mart at one end and two Chinese-American all-you-can-eat-for-\$9.95 buffets at the other, one on the west lanes, one on the east — shrimp sushi and boiled crawfish go well. Considering conditions — growing worse thanks to Rita — the buffet selection was surprisingly diverse. The shrimp were probably imported, of course, but it still was amazing that someone was driving them into southern Louisiana.

"We are open!" declared handwritten signs outside the restaurant, as well as most other businesses still functional, as it was a distinction in that time and place. A bit of a siege mentality set-in just before Rita. The supermarket across the highway from the Southern Motel was stripped nearly bare, except for an

Venice, Oct. 7. Inverted shrimper was ready to be raised, when T&T's diver discovered a fuel leak to be patched. Outriggers were tangled beneath pier. It can take awhile to raise a boat. (Photo: Don Sutherland.)



WHILE OTHER
COATING COMPANIES
HAVE BEEN FOCUSED
ON DOWNSIZING
AND REORGANIZING,
WE'VE BEEN FOCUSED
ON YOU.



At Sherwin-Williams, we've been spending our time innovating, expanding, and finding better ways to service your needs. We've developed new products that dry faster, cover in fewer coats and allow you to get your vessels in the water quicker. We've enhanced our marine technical support and our nationwide distribution system. And, perhaps most importantly, we took the time to thoroughly understand your business, to help owners, operators and applicators work together to achieve the ultimate goal of increased productivity. In other words, we didn't veer off course. Which has put us in a great position to help you.



To learn more, contact your Sherwin-Williams marine representative or call 800-524-5979 to have a rep contact you.

Circle 290 on Reader Service Card

abundance of bottled water. Lines formed at the gas pumps, and even we got cut-off by a blonde and her finger. But it was easy to understand. If you ran out of gas, had a breakdown or got hurt, there were bigger fish in your rescuers'

frying pans.

It was a tough time and place for ethics. The whole region, according to the newsradio, was hoping that Rita would go elsewhere. They were wishing the tempest on their neighbors,

and it made them felt awful. Rita arrived at Boutte Friday night. Except for one very loud, angry thunderclap, we slept through it. The lights and the phone were off at 0630, but were back on within the hour. We thought we'd take 90

East to the Rte. 23 exit, the Belle Chasse Highway, for a look at those two pogy boats on the road down by Empire. The drive up Rte. 90 revealed a few houses standing in water, but billboards had taken the worst hit in the night. Compared to the icons of Katrina, compared to all fears, the region got-off light with Rita.

There were still squalls that morning, rain bands as they're called, that arrived periodically to shake the car and render the windshield wipers useless. We missed the requisite turnoff to 90 Business, and wound-up crossing the Huey Long Bridge into New Orleans. "Unfortunately," states an encyclopedia article we'd read, "most people currently living in hurricane-prone areas do not understand the threat of storm surge ... In South Florida, many people, houses and animals were virtually swept away by storm surge in the great hurricanes of the early part of [the twentieth] century. Yet the collective memory no longer holds these recollections ..."

In New Orleans, that day, the collective memory was reminded. And yet the winds, gusty as they were, did not seem like they would churn-up a surge. They and the squalls were annoying as we drove around town, but otherwise innocuous. Our mind changed when sheets of corrugated steel sailed close past the windshield, evidently part of a wall until recently. We retreated to Boutte till the next day.

The winds had subsided and the weather was clear, so we were able to see from a half-mile away that there was a roadblock down Rte. 23. That's okay, we're press. We get to go everywhere. We pulled-up to the sheriff's car, and jumped out with a gregarious "hi!" "You are blocking my roadblock," said the sheriff.

Didn't know you could block a roadblock. Wouldn't that make us a deputy? "Please move your car to the northbound lane," said the sheriff, staring ahead through his windshield. We complied.

"I'm press," we announced upon return to the patrol car's side, "doing a story on ..."

"Can't get through," said the sheriff, still staring ahead, "road's closed."

"Oh. What's the trouble?"

"Flooding."

"Oh. Still? I thought you'd be all dried up by now." Why was he still staring ahead? "So, when do you think it might open? Tomorrow?" "Probably not," he said. His tone clarified his fixed gaze. We were too stupid to look at.

ADVERTORIAL

AlcoTec Offers Training and Certification in Aluminum Welding

AlcoTec, a subsidiary of ESAB Welding and Cutting Products, is the technology leader in the manufacture of aluminum welding, brazing, and metallizing wire. As a result, AlcoTec employees are uniquely qualified to offer training, certification, and consultation in aluminum welding.

AlcoTec's welding school incorporates theory and a hands-on approach to welding

aluminum alloys, as well as one-on-one discussions with staff. Topics include general characteristics of aluminum, metal preparation, welding procedures, and inspection. AlcoTec also offers welder performance qualification and welding procedure qualification.

Training is provided at AlcoTec's facility in Traverse City, Michigan; customized training can be developed to meet your needs. For more information, contact AlcoTec toll free at 1-800-228-0750 or online at www.alcotec.com.

Convenient Package Sizes Speed Production in Aluminum Welding

AlcoTec quality aluminum welding wire is offered in convenient packages designed to provide continuous twist-free wire in high volume for production applications. Twist-free wire delivery ensures ease of use and consistent quality welds.

The packaging also maximizes product stability and protects product quality from the time the wire leaves the factory until it is put to use. The wire is easily installed, and when empty, the environmentally friendly packaging is fully recyclable.

Most popular alloys and diameters are available in the AlumaPak 300-lb. drum for high production applications or the convenient 50-lb. AlumaPak Mini for medium-to-high volume users. For more information, contact AlcoTec toll free at 1-800-228-0750 or online at www.alcotec.com.

ESAB Launches 100% Satisfaction Guarantee Program

In celebration of their 100th anniversary, ESAB Welding and Cutting Products North America is offering a revolutionary pledge to their customers: 100% Satisfaction Guaranteed. With complete confidence in their products, ESAB is the only manufacturer in the industry to offer this unique purchase protection, allowing consumers to buy completely risk free. This guarantee is a way to show how committed ESAB is to customer satisfaction. The 100% Satisfaction Guarantee applies to ESAB welding equipment, gas apparatus, hand-held plasma machines, and filler metals. The guarantee is valid for 100 days from the date of purchase.

For more information, contact ESAB toll free at 1-800-ESAB-123, press 5, or online at www.esabna.com/100satisfactionguarantee.

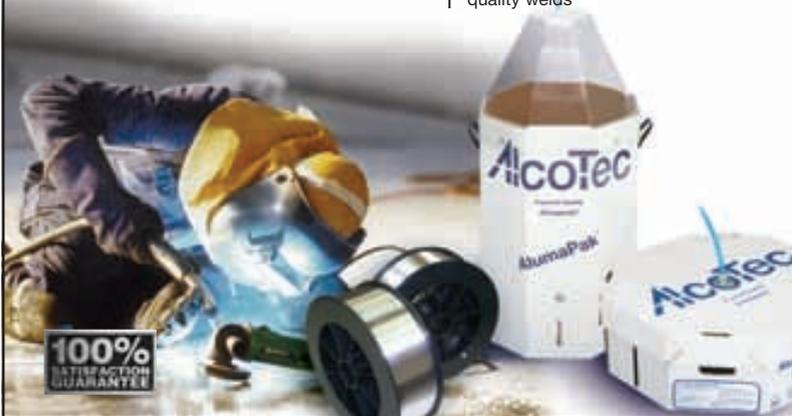


Product of choice for professional welders.

Trust AlcoTec for top-quality aluminum welding wire.

Environmentally friendly packaging designed to maximize product stability and quality

AlumaPak 300-lb. drum and 50-lb. AlumaPak Mini provide continuous twist-free wire for ease of use and consistent quality welds



AlcoTec Wire Corporation – a subsidiary of ESAB® Welding and Cutting Products – is the world's largest producer of aluminum welding wire and the only single source for all the aluminum alloys currently registered for aluminum welding applications. Our state-of-the-art drawing and spooling equipment, combined with proprietary processes, ensure the best dimensional, mechanical and metallurgical control in the industry. The result is wire with precise diameter, cast, helix, and sliding friction controls for exceptional feedability and lot-to-lot consistency. **For your next aluminum welding job, ask for AlcoTec by name.**

1.800.228.0750 www.alcotec.com

AlcoTec

ESAB Your Partner in Welding & Cutting Since 1904

Great things happen when you put us to work.

Circle 237 on Reader Service Card

Emerson Bearing

201 Brighton Avenue
Boston, MA 02134
Tel: 1-800-225-4587
Fax: 1-800-252-1996
E-Mail: info@emersonbearing.com
Web: www.emersonbearing.com
CEO: Steven Katz



For 50 years Emerson Bearing has been a leading supplier of Ball and Roller Bearings to the Marine and Shipping industry. With over 28,000 sq. ft of inventory and 24/7 service Emerson can meet your immediate needs ranging from Pillow Blocks, Split Bearings, Sheave wheel crane bearings, Oil Seals, Hydraulic cylinders and equipment, and much more.

Circle 99 on Reader Service Card

ImpactWeather, Inc.

8787 Tallyho Rd.
Houston, Texas 77061
Tel: (877) 792-3220 Toll free
Tel: (713) 378-2720 Houston Metro • Fax: (713) 943-4645
E-mail: marelano@impactweather.com • http://www.impactweather.com
For more information, contact: Mike Arellano
Industry Manager, Offshore/Marine



ImpactWeather provides accurate and timely marine weather information - a key component of the decision-making process. Whether you're sailing across the Atlantic, or managing a weather-sensitive project, our comprehensive worldwide marine weather forecasts can provide the critical information you need to operate safely and efficiently in any marine environment.

Circle 98 on Reader Service Card

2-W Diving, Inc.

P.O. Box 2011
Mt. Pleasant, SC 29465-2011
www.2wdiving.com
Gary W. Quaks
tel: 843-566-1766
fax: 843-566-1768
email:two-wdiving@worldnet.att.net
Descr: Commercial Diving Services
Products: Marine Engineering, Salvage, Ship Repair

AAF International

10300 Ormsby Park Place Ste 600
Louisville, KY 40223
www.aafintl.com
Debbie Marshall
tel: 888-388-0529
fax: 888-388-0529
email:dmarshall@aafintl.com
Descr: Manufacturer of air filters & air filtration equipment.
Products: Diesel Engine- Spare Parts & Repair, Filters/Filter Systems, Ventilation Systems / Products

Aanderaa Instruments Inc

182 East Street, Suite B
Attleboro, MA 02703
www.aadi.no
Erik Brekke
tel: 508-226-9300
fax: 508-226-9306
email:erik.brekke@aadi.no
Products: Oceanographic and Meteorological Instruments, Monitoring Systems

ABB Inc. - Business Unit Turbocharger

1109 Howard St.
Deer Park, TX 77536
www.abb.com
Michael Kriner
tel: 281-930-8383
fax: 281-930-9595
email:atc.houston@us.abb.com
Descr: Sales and service of ABB turbochargers
Products: Turbochargers, Diesel Engine Spare Parts & Repair, Engines, Propulsion Equipment

AC-CESS Co Uk Ltd

Tyrebagger Works, Clinerty, Kinellar,
Aberdeen, AB21 0TT
Scotland
www.ac-cess.com
Callum Magee
tel: 0044 1224 790100
fax: 0044 1224 790111
email:info@ac-cess.com
Products: AC-ROV micro inspection underwater remotely operated vehicle

Accord International

4380 South Wayside, Suite#100
Houston, TX 77087
www.accordintl.com
Kevin Juergen
tel: 713-641-2288
fax: 713-641-3636
email:sales@accordintl.com
Descr: Fabricator of hoses and fittings; large and small bore
Products: Hoses, rubber, composite, metal, fire, gaskets, couplings, expansion joints, ventilation systems/products

Accurate Marine Surveys Inc.

10455 Dockside Dr. w.
Jacksonville, FL 32257
www.marinesurveyor.com/accurate
Gary Frankovich
tel: 904-377-0475
fax: 904-260-7955
email:frankovich@marinesurveyor.com
Descr: marine surveys, damage/insurance/pre-purchase

Acomarin Engineering Ltd

PO Box 223
Naantali, 21111 Finland
www.acomarin.fi
Kari U. Laiho
tel: +358-40-900 4060
fax: +358-2-435 4696
email:kari.laiho@acomarin.fi
Descr: Finnish Engineering Company over 35 years experience in the modern maritime technology
Products: Pushpin(R)- ATB - Coupling Systems, hydraulic and pneumatic, State-of-the-Art, PLC Controlled, Ballast, Consultants, Couplings

Advanced Automation Technologies

640 Rice Blvd.
Exton, PA 19341
www.aatcranes.com
Richard Schultz
tel: 610-458-8700 ext. 295
fax: 610-680-3666
email:rschultz@aatcranes.com
Descr: Crane builder, repairs, upgrades
Products: Computer/computer software, consultants, crane, hoist, derrick, whirleys

Advanced Marine, Inc.

1237 St. Francis Rd.
BelAir, MD 21014-2024
www.advanced-marine.com
Edward H. Bond
tel: 410-893-7760
fax: 410-893-7761
email:ebond31851@comcast.net
Descr: Supplies/brokers new and used dredges/pumps and marine equipment
Products: Hydraulic dredges/pumps/harvesters, marine engineering, pipe fittings/cuttings/connecting/systems

Advanced Motion & Controls Unlimited, Inc.

2431 Laura Lane
Pearland, TX 77581
Evan Golfis
tel: 281-997-9973
fax: 281-997-0106
email:amcu_inc@msn.com
Descr: Marine automation, pneumatic controls
Products: Control system- monitoring/steering, propulsion equipment

Advanced Power Systems Interational, Inc.

588 Lime Rock Rd.
Lakeville, CT 06039
www.fitchfuelcatalyst.com
Chris Wright
tel: 860-435-2525
fax: 860-435-2424
email:chriswright@fitchfuelcatalyst.com
Products: Fuel & Emissions reduction technology

Advanced SubSea Inc.

2426 West Loop South, Ste. 200

Houston, TX 77027
www.advanced-subsea.com
Jacques Schoellkopf
tel: +33 1 42 22 11 76
fax: +33 1 42 22 21 99
email:jsk@advanced-subsea.com
Descr: Positioning and survey services
Products: Subsea positioning, metrology consultants, GPS, navigation

AEPSCO Marine

2517 Ferry Road Suite 200
Virginia Beach, VA 23455
www.aepcomarine.com
Mr. Lester Lee
tel: 757-490-8500
fax: 757-490-7175
email:Lee_Lester@aepco.com
Descr: Ship repair and marine structure
Products: Ship repair, shipyards

Agiosat Global Communications

2333 N. Valley Street
Burbank, CA 91505
www.agiosat.com
Tom D. Soumas, Jr.
tel: 877-728-2668 (24x7)
fax: 818-526-1715
email:tsoumas@agiosat.com
Descr: Business recovery/IT infrastructure/communication reestablishment throughout the affected Gulf Region.
Products: Instant infrastructure, communications, satellite communications, voice, data, 2-way radio and video

AGMarine, Inc.

5711 34th Avenue NW Suite 201
Gig Harbor, WA 98335
www.agmarine.com
Devon Liles
tel: 253-851-0862
fax: 253-851-0865
email:devoni@agmarine.com
Descr: Distributor of commercial marine navigation
Products: Gyrocompass, autopilot, speed log, magnetic compass, RAI, steering gear, charting systems, autopilot systems, control system-monitoring/steering, marine electronics

Air Compressor Energy Systems

10151 S. Perdue
Baton Rouge, LA 70814
www.acesgs.com
Ron Naquin
tel: 225-272-2722
fax: 225-272-1424
email:info@acesgs.brcoxmail.com
Descr: Compressed air products distributor
Products: Air compressor and air dryers, oil/water separators, pipe fittings/cuttings/connecting/systems, pump-repair-drives

Alfa Lava

955 Mearns Road
Warmminster, PA 18974
www.alfalaval.us
Noreen Comerford
tel: 215-443-4021
fax: 215-443-4200
email:noreen.comerford@alfalaval.com
Descr: Alfa Laval help you with all of your bilge/oily/wastewater and ballast treatment, separation, heat transfer, and tank cleaning needs. We are here to arrange your spares, service, planned maintenance, and training needs.
Products: Separation, heat transfer, fluid han-

dling, ballast, shipbuilding (repairs, maintenance, dry docking, waste water treatment)

ALGAE-X International

PO Box 4011
Fort Myers Beach, FL 33932
www.algae-x.net
John Bennett
tel: 239-463-0607 or 877-425-4239
fax: 239-463-7855
email: info@algae-x.net
Descr: Manufacturer of fuel management products for Diesel Fuels
Products: Fuel conditioning, treatment, filtration and emission control technologies

All Seasons Diving Company

PO Box 90
Dryden, MI 48428
www.AllSeasonsDiving.com
Captain Tom
tel: 810-796-2357
email:AllSeasonsDiving@Hotmail.com
Descr: Diving, charters, hyperbaric medic services, marine medical services
Products: Hyperbaric chambers, equipment and services; computer/computer software, training

Allied Independent Marine Contractors Inc.

1356 SE 17th Street
Fort Lauderdale, FL 33326
www.almcomarine.com
Phil Friedman
tel: 954-523-9770
fax: 954-523-8270
email: mail@portroyalgroup.com
Descr: Marine repair and refit contracting.
Products: Boatbuilder, shipbuilding (repairs, maintenance, dry docking)

Allied Marine & Industrial

118 West St
Port Colborne, On L3K4C9 Canada
Dave Marsland
tel: 905-834-8275
fax: 905-834-1128
email:sales@allmind.com
Descr: Steel fabrication, custom machining, millwrights and marine engineers
Products: Marine engineering, pipe fittings/cuttings/connecting/systems, ship repair

AllMaritim AS

P.O. Box 51
Bergen, 5812
Norway
www.allmaritim.com
Trond Dale
tel: +47 5533 6160
fax: +47 5533 6161
email:trond.dale@allmaritim.com
Descr: Supplier of oil spill response equipment
Products: Oil spill response, salvage

Alocit Group/Warfield Company

500D Abbott Drive
Broomall, PA 19008
www.alocit.us
Earl Bowry
tel: 757-484-0020
fax: 757-484-6114
email:earlb@alocit.us
Descr: Manufacture of underwater coatings and mil spec marine paints
Products: Alocit 25.15 underwater applicable epoxy, Enviropeel Corrosion Inhibiting Stripable coating, coatings/corrosion

control/paint, corrosion control

Alpha Star Corporation

5199 E. Pacific Coast Highway
Long Beach, CA 90049
Rose Ragalini, Ph.D.
tel: 562-985-1100 ext. 29
fax: 562-985-0786
email:roseregagali@alphastarcorp.com
Descr: Life, impact and damage prediction
Products: Progressive Failure Analysis, fire and safety products, shipbuilding (repairs, maintenance, dry docking, software)

Altus Innovations

9B Whitecrook Business Centre, Whitecrook
St. Clydebank
Glasgow, G81 1QF
UK
www.altusinnovations.com
Iain Galbraith
tel: +441419412340
fax: +441419412242
email:info@altusinnovations.com
Descr: Power and control engineers
Products: Consultants, marine engineering, naval architects, marine engineers

Aluminum Marine Construction (Almar)

117 Puyallup Avenue E.
Tacoma, WA 98421
www.almarboats.com
Mike Sandemam
tel: 253.572.2877
fax: 253.572.0065
email:info@almarboats.com
Descr: Boat customization for specific customer needs

Ambest Supply Co.

1619 Greenleaf Oaks
Sugarland, TX 77479
Fouad Alameddin
tel: 281-240-2700
fax: 281-240-2788
email:ambestsupply@aol.com
Descr: Procurement and supply
Products: Air conditioning and refrigeration, diesel engine (spare parts and repair, engines)

AMDETECH (Americn Detection Technologies, Inc)

619 Chartres Street, Unit G
New Orleans, LA 70130
www.amdtech.biz
Robert Juneau
tel: 504-915-8065
email:robert.juneau@amdtech.com
Descr: security and contraband detection services

Amergent Techs

65 Pine Avenue, Suite 221
Long Beach, CA 90802
www.amergenttechs.com
Frank Whipple (Capt - USCG Ret.)
tel: 714-892-0085
fax: 714-891-9588
email:Fwhipple@amergenttechs.com
Descr: Marine safety, security and environmental services
Products: Assessments, audits, planning, compliance, damage surveys, training, Oil and spill management, temporary personnel for surge support, consultants, oil spill response, training

American BOA, Inc.

1420 Redi Road
Cumming, GA 30040
www.americanboa.com
Vic Flock
tel: 678-513-3380
fax: 770-781-3968
email:vic.flock@iwka-abi.com
Descr: Manufacturer of metal flexible products
Products: Flexible metal hose and hose assemblies, expansion joints, pipe fittings/cuttings/connecting/systems

American Electronic Services Inc.

1401 Sandra St. PO Box 1490
Morgan City, LA 70380
www.americanelectronics-la.com,
Glenn Fuselier
tel: 985-702-8400
fax: 985-702-8403
email:gbf@teche.net
Descr: Marine electronics, sales, and service.
Products: Autopilot systems, GPS, marine electronics

American Fan Company - a Flakt Woods Company

2933 Symmes Road
Fairfield, OH 45041
www.americanfan.com
David Medley
tel: 360-202-8043
fax: 360-678-2253
email:david.medley@flaktwoods.com
Descr: High performance fans and air distribution for marine, offshore and naval applications.

American Marine Holdings Government Services

7110 21st Street East
Sarasota, FL 34243
www.amhgov.com
John Hotz
tel: 281-240-2700
fax: 281-240-2788
email:hotz@amhmail.net
Descr: Industrial and commercial boat manufacturer
Products: Fiberglass boats, aluminum boats, boat builder

American Marine Transportation Inc.

178 Via De La Reina
Merritt Island, FL 32953
www.americanmarinetransportation.com
Tom Connell
tel: 321-452-0522
fax: 321-452-3452
email: tconnell@shore.net
Descr: Tug, barge, and cargo transportation
Products: Brokers, consultants, marine equipment

American Nautical Services, Inc.

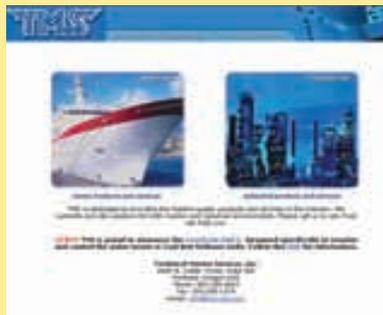
3311 South Andrews Ave., Suite 11
Fl. Lauderdale, FL 33316
www.amnautical.com
Ed Hays
tel: 954-522-3321
fax: 954-522-3390
email:ed@amnautical.com
Descr: World class nautical chart agency and marine bookstore
Products: Nautical charts and marine professional and technical books, nav/comm equipment, navigation

Technical Marine Service, Inc.

6040 N. Cutter Circle, Suite 302
Portland, OR 97217-3956
tel: 503-285-8947
fax: 503-285-1379
www.tms-usa.com
sales@tms-usa.com
martin@tms-usa.com
Contact: Martin Wolf

Since 1987, TMS has provided automation, monitoring and control design engineering. TMS specializes in steamship boiler automation and combustion control. TMS manufactures tank level indicators for use with liquid drill mud, HFO, DFM and ballast.

Circle 97 on Reader Service Card



Wheelabrator Group

1219 Corporate Drive, Burlington,
Ontario L7L 5V5
Fax Number: 800-571-5637
Contact: Rick Roth
Contact email:
info@wheelabratorgroup.com
www.wheelabratorgroup.com

Supported by an extensive after market service of maintenance, renovation and consumables, the Wheelabrator Group is the world-leading designer and manufacturer of wheelblast, airblast and peening equipment. Whatever your surface preparation requirements are, the Wheelabrator Group will deliver the right solution for you.

Circle 96 on Reader Service Card



RAMCO Manufacturing Co., Inc.

365 Carnegie Avenue, Kenilworth, NJ 07033
Phone: 908-245-4500
Fax: 908-245-3142
www.ramco-safetyshields.com
E-mail: info@ramco-safetyshields.com



Since the development of the first commercial safety shield for pipe connections in 1958 by RAMCO® Manufacturing Co., Inc., there has been worldwide acceptance of safety shields on piping systems to prevent personnel injury and equipment damage due to a chemical spray-out. The effectiveness of RAMCO® Safety Shields has been demonstrated in thousands of installations in industrial manufacturing plants, government facilities and on naval and commercial ships.

Circle 95 on Reader Service Card

Superior Energies, Inc.

P.O. Drawer 386
Groves, TX 77619
Tel: (409) 962-8549
Fax: (409) 962-4027
E-Mail: sei@insulationsei.com
Web: www.insulationsei.com



Superior Energies, incorporated in 1978, is a Veteran-Owned Manufacturer, with over 100 years combined experience in the engineering, fabrication, and installation of Insulation Blankets, Fire Blankets, Acoustical Curtains, Thermal Shields and the best Leak and Freeze Protection products available. SEI has manufactured covers for a number of different industries utilizing a variety of designs, specifications, and techniques.

Circle 94 on Reader Service Card

American PERMALIGHT, Inc.

2531 W 237th Street #113
Torrance, CA 90505-6245
www.americanpermalight.com
Marina Batzke
tel: 310-891-0924
fax: 310-891-0996
email: info@americanpermalight.com
Descr: Photoluminescent signs and escape route markings that glow in the dark
Products: Photoluminescent signage, fire and safety products

American Solving Inc.

6511 Eastland Rd., Unit 9
Brook Park, OH 44142
www.AmericanSolving.com
Orley Aten
tel: 440-234-7373 or 800-822-2285
fax: 440-234-9112
email: info@solvinginc.com
Descr: Manufacturer and distributor of pneumatic powered heavy load handling solutions.
Products: Air bearing equipment for moving heavy loads

American Sprayed Fibers, Inc.

P.O. Box 735
Crown Point, IN 46308-0735
www.asfiusa.com
Dennis Miller
tel: 800-824-2997
fax: 219-696-4955
email: mail@asfiusa.com
Descr: Industrial, commercial and marine insulation
Products: Dendamax marine insulation, boat-builder and ship repairs, maintenance, and dry docking

Ameron International Performance Coatings & Finish

13010 Morris Road, Suite 400
Alpharetta, GA 30004
www.ameroncoatings.com
Dorothy Tripodi
tel: 678-393-0653
fax: 678-566-2699
email: dtripodi@ameron.com
Descr: Manufacturer of high performance coatings
Products: Antifouling, ballast, coatings/corrosion control/paint

Amron International

1380 Aspen Way
Vista, CA 92081
www.amronintl.com
Michael Malone
tel: 760-206-6505
fax: 760-597-8305
email: mmalone@amronintl.com
Descr: Distributor of commercial diving and public safety equipment
Products: Commercial diving, communications, GPS, safety products

AMSEC LLC / M. Rosenblatt & Son

350 Broadway, 8th Floor
New York, NY 10013
www.amsec.com
Peter Wallace
tel: 212-431-6900
fax: 212-334-0837
email: peter_wallace@amsec.com
Descr: Engineering and logistics firm specializing in ships and ports. AMSEC is a joint business venture of SAIC and Northrop-Grumman Newport News.

Products: Consulting services, engineering, program management, integrated logistics support, business process support, naval architects, marine engineers, training

Analytic Systems

#207 12448 82nd Ave.
Surrey, BC V3L2A1
Canada
www.analyticssystems.com
Bill Walker
tel: 604-543-7378
fax: 604-543-7354
email: info@analyticssystems.com
Descr: Manufacturer of power supplies, UPS's and power conversion products
Products: Power supplies, electrical equipment, marine electronics

Anker Marine Paints

21 Charles Street
Westport, CT 06880
Mr. Leif Ammentorp
tel: 203-226-5200
fax: 203-226-5246
email: ankermarinepaint@earthlink.net
Descr: Manufacturer of marine paints & coatings
Products: Antifouling, coatings/corrosion control/paint

Ansul Incorporated

1 Stanton Street
Marinette, WI 54143
www.ansul.com
Wayne Richardson
tel: 281-282-0907
fax: 281-282-0917
email: wayrichardson@tycoint.com
Descr: Manufacturer; fire protection and suppression equipment
Products: Fire protection equipment

APEX Steel Corp (Bulbflats-R-US)

50 East Palisade Ave., Suite #404
Englewood, NJ 07631
www.apexsteelnj.com
Norman Cantor
tel: 201-568-1429
fax: 201-568-7025
email: apexsteel@covad.net
Descr: Supplier of bulb-flats
Products: Hull steel stiffeners, bulb-flats

Applegate Industrial Materials, Inc.

P.O. BOX 428 1440 Government Street
Baton Rouge, LA 70821-0428
www.the-flex.com
Bob Applegate
tel: 800-843-3539 or 225-336-4116
fax: 225-336-4317
email: bob@the-flex.com
Descr: Marine exhaust components
Products: Exhaust, expansion joints, insulation

Applied Geomechanics Inc.

1336 Brommer St Ste A8
Santa Cruz, CA 950622947
www.geomechanics.com
Etienne Constable
tel: 831-462-2801
fax: 831-462-4418
email: applied@geomechanics.com
Descr: Manufacturer of tiltmeters/clinometers
Products: Tiltmeters and clinometers, control system (monitoring/sterring, monitoring systems)

Aqua-Air Industries, Inc.

639 Manhattan Blvd.
Harvey, LA 70058
www.aquaairind.com
Stacy Cruze
tel: 504-362-8124
fax: 504-362-3600
email: sales@aquaairind.com
Descr: Commercial diving supplier and manufacturer
Products: Supplier and manufacturer of quality commercial diving equipment, filters/filter systems, heat exchangers, marine equipment

Aqua-Dyne

3620 W. 11th Street
Houston, TX 77008
www.aqua-dyne.com
Dennis Williams
tel: 713-864-6929
fax: 713-864-0313
email: info@aqua-dyne.com
Descr: Ultra high pressure water blasting equip. mfg. with pressures to 40,000psi.
Products: Pipe fittings/cuttings/connecting systems, pump-repair-drives, water jet cleaning

Aqua-Marine Surveyors LLC

P.O. Box 271128
Flower Mound, TX 75028
www.a-msllc.biz
Paul A. Post
tel: 214-457-0918
fax: 972-355-0252
email: boatchecker@a-msllc.biz
Descr: Yacht and small craft surveyor

Aries Marine and Industrial Sales

13405 Seymour Myers Blvd. Suite 20
Covington, LA 70433
www.ariesmarine.net
Barry Lagasse
tel: 985-871-9990
fax: 985-871-9094
email: ariesrfg@bellsouth.net
Descr: Stocking distributor
Products: Chockfast Orange Chocking Compound, galley equipment, marine equipment, tank leveling indicators

Art Anderson Associates

202 Pacific Ave.
Bremerton, WA 98337
www.artanderson.com/contactus.html
Christopher Muglia
tel: 206-622-6221
fax: 360-479-5605
email: cmuglia@artanderson.com
Products: Consultants, marine engineering, naval architects

ASA Environmental Products, Inc.

22 Bayview Avenue P.O. Box 789
Storington, CT 06378
www.ASA-environmental.com
Jeff Schneider
tel: 800-783-5272
fax: 860-535-3970
email: js@ASA-environmental.com
Descr: Certified SDB-supplier of diesel polishing and filtering systems, EPA & OSHA compliance products (spill clean up, safety supplies etc), cleaners and degreasers
Products: ASA/DPS - filters/filter systems, fire and safety products, oil spill response, oil/water separators, waste water treatment

ASL Environmental Sciences Ltd.

1986 Mills Road
Sidney, BC V8L 5Y3 Canada

www.aslenv.com
David Lemon
tel: 250-656-0177
fax: 250-656-2162
email: asi@aslenv.com
Descr: Physical oceanography, underwater acoustics
Products: underwater acoustics, consultants, marine equipment

Associated Marine Salvage Inc.

1883 NW 7th Street, Suite 5
Miami, FL 33125
Gordon Olson and Beau Payne
tel: 386-679-1975 or 305-790-7428
fax: 386-322-3399 or 305-644-9370
email: Lighthouseview@worldnet.att.net
Descr: Marine salvage, wreck removal, towing, commercial diving, underwater welding and burning, u/w ship repair
Products: Marine equipment, salvage, ship repair

ASTI Transportation Systems, Inc.

18 Bleivins Drive
New Castle, DE 19720
astl-trans.com
Todd Hartnett, Director of Homeland Security
tel: 302-328-3220
fax: 302-328-4051
email: Todd@astl-trans.com
Descr: ITS and homeland security
Products: Portable video surveillance, communications, security

Astillero de Puerto Rico, Inc.

P.O. Box 560278
Guayanilla, P.R. 00656-0278
Carlos E. Padilla
tel: 939-642-7603
fax: 787-844-6838
email: astilleros7600@hotmail.com
Descr: Marine contractor
Products: Marine service, marine equipment, salvage

At Sea Electronics, Inc.

5364 Ehrlich Road #17
Tampa, FL 33624
www.AtSeaElectronics.com
Ronald B. Hoel
tel: 813-961-3829
fax: 775-256-3048
sales_department@atseaelectronics.com
Descr: Marine radio/TV entertainment and training systems
Products: Marine radio/TV antennas, amplifiers, distribution, satellite TV, marine electronics, satellite communications

Atlantic Crew Services, Inc.

6374 12th Street
Vero Beach, FL 32966
www.atlanticcrew.com
Captain Gary Dyer
tel: 401-486-1933
email: atlanticcrew@yahoo.com
Descr: Captain and crew contact company

Atlas Marine Systems

5101 NW 21st Avenue, #520
Fort Lauderdale, FL 33460
www.AtlasMarineSystems.com
Mike Prado
tel: 954-735-6767
fax: 954-735-7676
email: Mikep@atlasmarinesystems.com
Descr: Marine electrical power equipment and design
Products: Marine electrical design, frequency converters, power management, switchboards, consultants, electrical equipment, naval architects, marine engineers

Aurand Mfg & Equipment Co

1210 Ellis St
Cincinnati, OH 45223
www.aurand.net
Michael Noeth
tel: 800-860-2872 or 513-541-7200
fax: 513-541-3065
email: aurand@fuse.net
Descr: Manufacturer of electric and pneumatic deck scalers
Products: Deck scalers, corrosion control, marine equipment, surface prep tools

Autonav

345-255 Newport Drive
Port Moody, BC V3H 5H1
Canada
www.autonav.com
Paul Wagner
tel: 604-526-0113
fax: 604-526-0146
email: wagner@autonav.com

Descr: Manufacturer, consultants
Products: Dynamic positioning, control system (monitoring/steering), steering gears/ systems

AXYS Technologies Inc

2045 Mills Rd
Sidney, BC V8L3S8 Canada
www.axystechnologies.com
Don Bryan
tel: 250-655-5847
fax: 250-655-5856
email: dbryan@axys.com
Descr: Remote environmental monitoring systems
Products: Buoys, water quality sensors, moorings, marine equipment, monitoring systems

Ayres Composite Panels USA, LLC

P.O. Box 616
Berwick, LA 70324
www.ayrescom.com
Saul Dupuis
tel: 985-395-9037
fax: 985-395-5129
email: saul@ayrescom.com
Descr: Manufactures lightweight aluminum composite panels
Products: Lightweight interior composite aluminum panels

Bahamas Marine International Inc

10731 Buttonwood Lake Drive
Boca Raton, FL 33498
www.bahamasmarine.com
Roy Mac Keen
tel: 954-520-4558
fax: 561-488-9278
email: info@bahamasmarine.com
Descr: Independent ship/yacht surveyors
Products: Independent marine surveyors

Bailey HVAC

632 Alvar St.
New Orleans, LA 70117
www.baileycv.com
Don Booth
tel: 800-8-BAILEY
fax: 732-382-1048
email: sales@baileycv.com
Descr: Marine HVAC refrigeration
Products: Marine HVAC design and installation

Bailey Refrigeration Co., Inc.

2323 Randolph Ave
Avenel, NJ 07001
www.baileycv.com
Ben Bailey
tel: 800-8-BAILEY
fax: 732-382-1048
email: sales@baileycv.com
Descr: Marine and industrial HVAC and refrigeration
Products: Refrigeration dehumidification

Bainbridge International

255 Revere St
Canton, MA 02021
www.coverguard.com
Michael Costello
tel: 800-422-5684
fax: 781-821-2609
email: mike.costello@coverguard.com
Descr: Distributor of temporary protective materials for floors, walls, carpet and furnishings during repair and rebuilding projects.
Products: Plastic sheeting for temporary protection of flooring, walls and furnishings during repair and renovation.

Baker Lyman and Co. Inc.

3220 South I-10 Service Rd
Metairie, LA 70001
Mike Serafin
tel: 504-831-3685
fax: 504-831-3786
email: bakerlyman@yahoo.com
Descr: Chart agents, pubs, weather stations.
Products: Weather Stations, computer and software, marine electronics, navigation

Barton Mines Company, LLC

1557 State Route 9
Lake George, NY 12845
www.barton.com
John Swertner
tel: 800-741-7756
fax: 518-798-5728
email: info@barton.com
Descr: Manufacturer
Products: Blasting abrasives for surface preparation and coatings removal

BB Acquisition LLC

2101 Fourth Ave, Suite 2200
Seattle, WA 98121

www.glacierbaycruiseline.com
Kevin Hill
tel: 206-388-0414
fax: 206-388-0415
email: kevinh@glacierbaycruiseline.com
Descr: Overnight passenger vessel operator
Products: Four small cruise vessels with accommodations for from 40-90 people plus crew

BCS Automation Ltd.

121 Dundas Street East, Suite 105
Belleville, ON K8N1C3 Canada
www.bcsautomation.ca
Tom Bowland
tel: 613-969-1108
fax: 613-967-7789
email: tbowland@bcsautomation.ca
Descr: Marine automation systems
Products: Control system (monitoring/steering), monitoring systems, security

Bell Design Group Ltd.

40 Tulle Court (American Contact)
Clayton, CA 94517-1210
www.belldesigngroup.com
Judy Bell-Davis
tel: 925-673-7220
email: judy@belldesigngroup.com
Descr: Interior and industrial Design
Products: Consultants, interiors, ship repair

Benthos, Inc.

49 Edgerton Drive
N. Falmouth, MA 02556
www.benthos.com
Peter Zentz
tel: 508-563-1000
fax: 508-563-6444
email: info@benthos.com
Descr: Maker of oceanographic products and undersea systems
Products: Remotely operated vehicles, geophysical survey systems, underwater modems, communications, marine electronics, marine equipment

Beurteaux

8 Success Way
Henderson, WA 6166 Australia
www.beurteaux.com
Neil Howe
tel: +61 8 9494 6888
fax: +61 8 9494 6889
email: neil@beurteaux.com
Descr: Marine seating
Products: Pilot and passenger seat options and accessories, interiors, marine equipment

BFG Marine, Inc.

One Saxwood Street
Deer Park, NY 11729
www.bfgmarine.com
tel: 631-586-5500
fax: 631-586-5501
email: sales@bfgmarine.com
Descr: Manufacturer of flex shafts and valve R.O.G.
Products: Remote manual valve operation equipment including flexible shafts

Bio-Gem Services Inc.

15816 S.E. 114th AV.
Clackamas, OR 97015
Roy A. Mohr
tel: 503-656-9858
fax: 503-656-9861
email: cleanthebio@msn.com
Descr: Environmental safe cleaners and lubricants
Products: Environmental safe cleaners and lubricants, filters and filter systems, oil/water separators, safety products

BIRNS, Inc.

PO Box 909
Oxnard, CA 93032-0909
www.birns.com
Eric Birns
tel: 888-247-6788
fax: 805-487-0427
email: service@birns.com
Descr: Underwater/splashproof lights

Blastrac North America

6215 Aluma Valley Drive
Oklahoma, OK 73121
www.blastrac.com
Paul Antoon
tel: 619-295-0893
fax: 619-295-0754
email: paul.antoon@blastrac.com
Descr: Concrete/steel surface preparations
Products: Shot blasters, grinders, polishers, saws, grinding disc and blades

Nordic Ship Consultants Inc.

1323 SE 17th Street, #521, Ft. Lauderdale, FL 33316
Phone: 954-524-0025 • Fax: 954-524-0056
www.nordicship.com • E-mail: nsci@nordicship.com

Marine Consulting Company established in Florida in 1980 and operated by Merchant Mariners with extensive operational experience within the ocean-towing industry on World-wide basis with a long track-record. Activities include sales and purchasing of tugs, barges, offshore/AHTS-vessels G/C-vessels, ferries, cruise-ships, etc. Traffic- and project-analysis with management services for existing or start-up businesses. We manage donations of commercial vessels with max. tax-credit benefits for US Owners.

Circle 93 on Reader Service Card





Out Here There's No Room For Excuses.

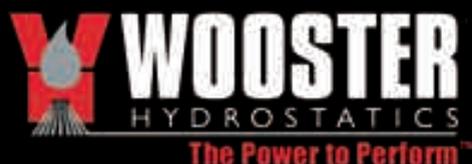
Rebuilding The Best Pumps With OEM Parts.

You've got a six figure rig working on a seven figure project and a little thing like a hydraulic pump shuts you down. It's times like these when rebuilding with OEM replacement parts becomes mission critical. And nobody does it faster or better than Wooster.

While most repair shops need 7-10 days, Wooster Hydrostatics delivers in 3-4 on standard lead times. Or you can get the 24 hour V.I.P. service and you're back in

business knowing that your pump was re-manufactured with the finest OEM parts. And you're assured that Wooster Hydrostatics and Fluid Power Solutions rebuilds and test every pump and motor to meet or exceed factory specifications.

Whether you're in the Construction, Forestry, Mining, Marine, Railroad or Industrial Markets. . . Wooster Hydrostatics and Fluid Power Solutions delivers the power to help you perform. Call today for more information.



4570 WEST OLD LINCOLN WAY • WOOSTER, OHIO 44691
PHONE 330.263.6555 • FAX 330.263.4463
TOLL FREE 1.800.800.6971 (USA)
SALES@WOOSTERHYDROSTATIC.COM
WWW.WOOSTERHYDROSTATIC.COM



3700 PARKWAY LANE, SUITE M • HILLIARD, OHIO 43026
PHONE 614.777.8954 • FAX 614.777.8640
SALES@FLUID-POWER-SOLUTIONS.COM
WWW.FLUID-POWER-SOLUTIONS.COM

Blended Learning Techniques Inc.
488 Bayview Terrace
Quaticum Beach, BC V9K 1G3
Canada
Martin Stewart
tel: 778-288-8116
email:mstewart@bltk.com
Products: Lifeboats/rafts, lifesaving equipment, training

Blucher-Josam
2501 S. Front Street
Philadelphia, PA 19148
www.josam.com
Carl Parker
tel: 215-339-5370
fax: 215-551-6440
email:blucher@josam.com
Descr: Producer of stainless steel push-fit drain pipe systems, deck and galley drains (channels)
Products: Stainless steel push-fit pipe and drain systems for black and grey water, in vacuum or gravity service

BMT Fleet Technology Limited
311 Leggett Drive
Kanata, ON K2K1Z8 Canada
www.fleetech.com
Andrew Kendrick
tel: +1 613 592 2830
fax: +1 613 592 4950
email: fleet@fleetech.com
Descr: Multi-disciplinary engineering firm serving the energy and transportation (marine) sectors, providing support from concept design through decommissioning.
Products: Consultants, marine engineering, naval architects

BMT Salvage Limited (The SA)
40 Fulton Street
New York, NY 10038
www.wreckage.org
Bill Palmer or Liz Arnold
tel: 212-587-9300
fax: 212-587-9301
email:new_york@wreckage.org
Descr: Marine surveyors
Products: Specialist damage surveyors, consultants, naval architects, marine engineers, salvage

Boland Industrial Consulting Services, Inc.
P.O. Box 612
Pascagoula, MS 39568
www.pavcoind.com
JOHN BOLAND
tel: 228-762-3172
fax: 228-762-3108
email:tonymack@pavcoind.com
Descr: PdPM vibration and alignment
Products: Vibration analysis and control laser alignment, marine engineering, naval architects, propulsion equipment.

Booz Allen Hamilton
8283 Greensboro Drive
McLean, VA 22102
www.bah.com
Tom Schnieder
tel: 703-289-5085
email:Schneider_thomas@bah.com
Descr: A global strategy and technology consulting firm
Products: Project management, secure supply chains, risk assessments, process reengineering, IT consulting, communications, consultants

Brass Works Inc., The
P.O. Box 566
DeLand, FL 32721
www.marinedoorandcabinethardware.com
Hannah Barnes
tel: 386-943-8857
fax: 386-943-8810
email:info@marinedoorandcabinethardware.com
Descr: Door locks, cabinet latches, door stops, marine grade - stainless steel, brass chrome plated
Products: Hardware, door locks, marine and industrial doors, interiors

Brown Marine Service, Inc
P.O.Box 1415
Pensacola, FL 32591-1415
www.browmarine.com
Bill Guttman
tel: 850-453-3471
fax: 850-457-1662
email:tbrown01@browmarine.com
Descr: Distributor of marine supplies and equipment
Products: Oil-eating microbes for bilges, brokers, filters, filter systems

BSY Associates Inc.
960 Holmdel Road/ Building 2
Holmdel, NJ 07733
www.bsya.com
Barbara Spector Yeninias
tel: 732-817-0400 ext.16
fax: 732-817-1411
email:Barbara@bsya.com
Descr: Crisis communications, marketing communications, advertising, graphic design
Products: Media response, marketing communications, consultants, oil spill response, training

Burke Design, LLC
31 Dimond Ave.
Bristol, RI 02809
www.burkecompositeengineering.com
Steve Burke, NA
tel: (401) 254-6113
fax: (401) 254-6113
email:steve@burkecompositeengineering.com
Descr: Composite engineering
Products: Composite engineering, new construction and repairs, consultants, naval archi-

tecs, marine engineers

BW Technologies
3279 West Pioneer Pkwy
Arlington, TX 76013
www.gasmonitors.com
Jimmy Blout
tel: 888-749-8878
fax: 817-274-8321
email:info@bwt.net
Descr: Manufacturer of gas detection
Products: Gas detectors, monitoring systems, safety products

C. C. Jensen, Inc.
1557 N. W. Ballard Way
Seattle, WA 98107
www.ccjensen.com
Knud E. Hansen
tel: 206-789-1710
fax: 206-789-1747
email:ccjensen@ccjensen.com
Descr: Manufacturer of offline filter systems for any type of oil.

Caldwell Marine Intl.
1433 Hooper Ave - Suite 121
Toms River, NJ 08753
www.caldwellmarine.com
Jack Breininger
tel: 732-557-6109
fax: 732-557-0018
email:breininger@caldwellmarine.com
Descr: Heavy marine contracting
Products: Marine construction, diving.

Callenberg Engineering Inc.
570 NE 185th St
Miami, FL 33179
www.callenberg.com
Avi Tal
tel: 305-493-8000
fax: 305-493-8099
email:avi@callenberg.com
Descr: Marine electrical supplier and integrator
Products: Air conditioning and refrigeration, electrical equipment, lighting systems/ equipment

Cape Compass
Box 52
West Falmouth, MA 02574
www.capecompass.com
Jeff Kaufmann
tel: 508-457-9093
email:jckompass@adelphia.net
Descr: Magnetic compass repairs, installation and adjusting
Products: Ritchie, Plath, Danforth, Suunto, Dirigo, ComNav, Silva, autopilot systems, nav/comm equipment, navigation

CapRock Communications
4400 S. Sam Houston Parkway E
Houston, TX 77048
www.caprock.com
David Myers
tel: 888.482.0289
fax: 832.668.2388
email:sales@robc@cprk.com
Descr: Satellite communications provider
Products: Communications, satellite communications

Carousel Paint Corp
3558 Western Branch Blvd
Portsmouth, VA 23707
www.carouselpaint.com
Dan P Buelk PCS
tel: 757-397-4594
fax: 757-399-4525
email:danbuelkpcs@carouselpaint.com
Descr: High performance coatings paint store
Products: Antifouling, coatings/corrosion control/paint, surface prep tools

Carrillo Underwater Systems
POB 6217
Brookings, OR 97415
www.carrilounderwater.com
Rob Carrillo
tel: 888-728-2226
email:robc@carrilounderwater.com
Descr: Manufacturer of underwater lighting and video
Products: Portable underwater video (VHS/DVD/HDD) cameras, recorders and wireless and low voltage lighting, communications, monitoring systems

CAT PUMPS-High Pressure Pumps & Systems
1681 94th Lane NE
Minneapolis, MN 55449
www.catpumps.com
Darla Jean Thompson
tel: 763-780-5440
fax: 763-780-2958
email:techsales@catpumps.com
Descr: Manufacturer of triplex high pressure pumps and systems up to 320 GPM, 7000 PSI for desalination, process, jetting, hydrostatic and industrial cleaning applications.
Products: high pressure pumps, desalination pumps, triplex plunger pumps, pump systems, water jet cleaning

CDI Marine Company
9550 Regency Square Blvd
Jacksonville, FL 32225
www.cdi-gs.com
Francesco Anderson
tel: 904-805-0700
fax: 904-805-0710
email:francesco.anderson@cdicorp.com
Descr: Naval architecture, marine engineering and design
Products: Naval architects, marine engineers, simulation training

CENTA Corporation
815 Blackhawk Drive
Westmont, IL 60559

www.centa.info
Bob Lennon
tel: 630-734-9600 x17
fax: 630-734-9669
email:info@centacorp.com
Descr: Manufacturer of flexible couplings
Products: Couplings, propulsion equipment, shafts

Centaur Construction, LLC.
2200 Royal Street
New Orleans, LA 70117
Arthur Pittari
tel: 504-947-3905
fax: 504-947-3950
email:arthur@centaurllc.com
Descr: Heavy, industrial and marine construction, salvage, demolition and debris removal
Products: Own and operate 3 heavy lift cranes (200 and 300 ton) on barges. Affiliated with marine services company that provides bulk and breakbulk stevedoring plus marine towing, consultants.

Central Lock and Hardware Supply
95 N.W. 166th Street
Miami, FL 33169
www.cenlock.com
Shari Rochelle
tel: 305-947-4853
fax: 305-949-8945
email:sales@cenlock.com
Descr: Wholesale distribution of architectural marine door/cabinet/window/bath-washroom/refrigerator hardware
Products: Yale security/corbin/schlage/bohrick/kason/stanley/hager/phoenix lock/ives/, fire and safety products, galley equipment.

Chesapeake Marine Training Institute, Inc.
PO Box 1153,
3566 George Washington Mem Hwy
Hayes, VA 23072
www.chesapeakemarineinst.com
Amanda Symonds
tel: 1-800-642-2684
fax: 804-642-1743
email:info@chesapeakemarineinst.com
Descr: Provides USCG approved courses including AB w/ Limited Lifboat; RADAR; ARPA; ECDIS; STCW BST; App. Mate/Steersman; Master to 200GT; Tankerman PIC; and more. Mustang Survival Gear Dist. Visit us at www.chesapeakemarineinst.com
Products: Lifesaving equipment, simulation training

Chow Engineering, Inc.
7770 Pardee Lane, Suite 100
Oakland, CA 94621
www.choweng.com
Michael S. Smookler
tel: 510-636-8500
fax: 510-636-8544
email:msmookler@choweng.com
Descr: General Engineering / Construction Management
Products: General Engineering, Construction Management, Maritime Security

Cianbro Corporation
P.O. Box 1000
Pittsfield, ME 04967
www.cianbro.com
Bob Blackmore
tel: 207-679-2381
fax: 207-679-2463
email:bblack@cianbro.com
Descr: General Contractor
Products: Industrial Fabrication, Coatings/Corrosion Control/Paint, Consultants, Ship Repair

CitiCapital Commercial Corporation
290 East Carpenter Freeway
Irving, TX 75062
www.citicapital.com/marine/index.as...
Joe Pitch
tel: 972-652-4709
fax: 972-652-4796
email:joseph.m.pitch@citigroup.com
Descr: Commercial Marine Finance Division of CitiGroup
Products: Financing and Leasing

Clean Harbors Environmental Services, Inc
13351 Scenic Highway
Baton Rouge, LA 70807
www.cleanharbors.com
Scott Metzger
tel: 225-778-3523
fax: 225-778-3510
email:metzgers@cleanharbors.com
Descr: Environmental Response/Salvage
Products: Haz Mat/Oil/Biohazards/Mold/Decon, Oil Spill Response, Salvage, Shipbuilding (Repairs, Maintenance, Dry docking)

CleanCut, LLC
104-B Easement Road
Broussard, LA 70518
www.cleancutllc.com
Joey LeRouge
tel: 337-837-9948
fax: 337-769-0030
email:jaquetta@hightechcomp.com
Descr: Surface Preparation - Equipment & Media
Products: Low Dust Abrasive Blasting

Climax Portable Machine Tools, Inc.
2712 E. Second St
Newberg, OR 97132
www.cpmpt.com
Mike Davenport
tel: 503-538-2185
fax: 503-538-7600
email:info@cpmt.com
Descr: Portable Machine Tool Sales, Rental &

Training
Products: Ship Repair, Shipbuilding (Repairs, Maintenance, Dry docking)

C-MAP
133 Falmouth Road
Mashpee, MA 02649
www.c-map.no
Eric James
tel: 5084777537
fax: 5085394384
email:commercial@c-map.com
Descr: Electronic Charts
Products: CM-93 Electronic Chart Database, Marine Electronics, Nav/Comm Equipment, Navigation

Coastal America Foundation
100 Muron Avenue
Bellingham, MA 02019
www.CoastalAmericaFoundation.org
William A. Hubbard
tel: (508) 292-0251
fax: (508) 883-4517
seamall@CoastalAmericaFoundation.org
Descr: IRS Recognized public charity doing habitat restoration and education
Products: Environmental Restoration Charity,

Coastal Marine Equipment, Inc.
20995 Coastal Parkway
Gulfport, MS 39503
www.coastalmarineequipment.com
Raiph Waguespack
tel: 228-832-7655
fax: 228-832-7675
email:sales@coastalmarineequipment.com
Descr: Provides support, parts and service for all products which previously made up the McElroy/Catchot winch product line.
Products: Anchor Windlasses, Mooring Winches, Anchor Winches, Hose Reels, Capstans, Escort Winches, Towing Winches, Tugger Winches, Ramp Winches, Spud Winches, Cable Storage Reels, Capstans, Winches & Fairleads, Windlasses (Anchors)

Comcortech
3952 Cattaill Pond Drive
Jacksonville, FL 32224
www.comcortech.com
Daniel Decker
tel: 904-504-1861
email:dandecker77@msn.com
Descr: Water Jet Cleaning/Coatings Application
Products: Coatings/Corrosion Control/Paint, Corrosion Control, Water Jet Cleaning

Commercial Products Int'l, Inc
7060 15th Street East, Suite 6
Sarasota, FL 34243
www.commercialproducts.net
Andrew Whittington
tel: 502-863-0373
email:info@commercialproducts.net
Descr: Marine, Commercial and Household Appliances
Products: Washers/Dryers, Laundry Equipment, Dishwashers, household appliances, marine appliances, Air conditioning & Refrigeration, Galley Equipment, Marine Equipment

Commonwealth Rubber Supply Inc
40 N Enterprise Ave
Trenton, NJ 08638
rasputen@voicenet.com
Ray Kasper
tel: 1-609-695-8312
fax: 1-609-695-8312
email:rasputen@voicenet.com
Descr: industrial rubber hose
Products: hose, hose couplings, fuel hose, oil transport hose

Compliance Innovations
300 Tournament Boulevard
Berwick, LA 70342
Captain Fred Isslieb
tel: 985-397-1040
fax: 985-702-1079
email:compliancemarine@aol.com
Descr: Marine Vessel/Commercial Coating Restoration
Products: Coatings/Corrosion Control/Paint, Salvage

Conrad Industries, Inc.
1501 Front Street
Morgan City, LA 70380
www.conradindustries.com
A.J. Blanchard
tel: 985-384-3060
fax: 985-385-4090
email:ajblanchard@conradindustries.com
Descr: Boat builder and vessel repair
Products: Ship Repair, Maintenance, Dry docking, Shipyard

Consulting and Specialists, Inc.
924 Lefort By-Pass Rd.
Thibodaux, LA 70301
www.safetytrainingacademy.com
Dwayne Portier
tel: 985-447-1700
fax: 985-447-2777
email:dmportier@safetytrainingacademy.com
Descr: Safety Training and Fire Suppression
Products: Consultants, Fire & Safety Products, Training

Continental Western Corporation
1003 Medina Street
Houston, TX 77102
www.cwestern.com
Dexter Ross
tel: (877) 644-0347
fax: (713) 926-3867
email:dross@cwestern.com
Descr: Premier supplier of strapping, rope, twine, packaging products, gloves and tarp products for the agricultural, fishing, marine, industrial, hardware, utility and packaging

markets.
Conusub
215 Third Street
Newport, RI 02840
www.conusub.com
Stephen Moy
tel: 401-848-7495
email:Steve@conusub.com
Descr: Commercial Diving
Products: Diving Services, Salvage, Shipbuilding-Repairs, Maintenance, Dry docking

Cooper Bearings
5365 Robin Hood Road Suite B
Norfolk, VA 23513
www.CooperBearings.com
Debbie Milledge
tel: 757-460-0925 ex 100
fax: 757-464-3067
email:dmlilledge@kaydon.com
Descr: Bearing manufacturer
Products: Split Roller Bearings, Bearing-Rubber, Metallic, Non-Metallic, Propulsion Equipment

Corpro Companies, Inc.
7000B Hollister
Houston, TX 77040
www.corpro.com
Spencer Turpin
tel: 713/460-6000
fax: 713/460-6060
email:sturpin@corpro.com
Descr: Corrosion control services - cathodic protection testing and repair
Products: Antifouling, Consultants, Corrosion Control

Cranesmart Systems
4908 97 Street
Edmonton, AB T6E 5S1 Canada
www.cranesmart.com
Mark Holt
tel: 780-437-2986
fax: 780-438-9448
email:markholt@cranesmart.com
Descr: Cranesmart Systems manufactures crane safety equipment.
Products: Crane - Hoist - Derrick - Whirleys, Safety Products

CS Unitec, Inc.
22 Harbor Avenue
Norwalk, CT 06850
www.csunitec.com
Tom Carroll
tel: 800-700-5919
fax: 203-853-9921
email:info@csunitec.com
Descr: Specialty Industrial Power Tools
Products: Pneumatic Tools for sawing and drilling concrete, pipe, metal

Cygnus Instruments, Inc.
PO Box 6417
Annapolis, MD 21401
www.cygnusinstruments.com
Rod Sanders
tel: 410-267-9771
fax: 410-268-2013
email:sales@cygnusinstruments.com
Descr: Manufacturer/distributor
Products: Ultrasonic metal thickness gauges - Ultrasonic Leak Detector - Pit Gauges - Coating Thickness Gauges

Dataform Software, L.L.C.
373 US Hwy 46, West; Bldg. E
Fairfield, NJ 07004
www.dataformsoftware.com
John G. Richardson
tel: 973-882-8835 x111
fax: 973-882-8836
email:john@dataformsoftware.com
Descr: Custom Project Management Software, Plan, Execute Track and manage costs from the field or in the office, worldwide.
Products: Planet Customizable Project Management Software with legacy systems integration, Consultants, Software

Davie Maritime Inc
22 George D. Davie
Levis, QueQue G6V8V5
Canada
Gilles Gagné
tel: 418-837-5841 ext. 2447
fax: 418-835-1017
email:gilles.gagne@davie.ca
Descr: Ship and offshore platforms building and repair
Products: Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking, Shipyards

DB Consulting
P.O.Box 9903
Virginia Beach, VA 23450
www.dboconsulting1.com
Dottie Bowling
tel: 757-463-7329
fax: 757-463-7329
email:dottiebowling@dboconsulting1.com
Descr: Technical recruiters
Products: Technical personnel

DC Fabricators
801 W. Front Street
Florence, NJ 08518
www.dcfab.com
Robert A. Sarraiocco, Business Dev Mgr
tel: 609-499-3000
fax: 609-499-4214
email:rasarraiocco@dcfab.com;basmith@dcfab.com
Products: Design and build services, gun drilling, tubsheet drilling services, engineering, heat transfer specialists, specialty material fab titanium alloys & duplex stainless steels, Filters/Filter Systems, Heat Exchangers, Marine Equipment

DCR Maritime Consultants, Inc.
1061 Martin Street
Houston, TX 77018
www.DCRMaritime.com
Richard Simpson
tel: 713-589-3881
email:Info@DCRMaritime.com
Descr: Operations Support: Dynamic Positioning / Construction Support / Risk Management
Products: Consultants, Marine Engineering, Salvage

Deansteeel Manufacturing
111 Merchants St.
San Antonio, TX 78204
www.deansteeelmarine.com
Wolfgang Avery
tel: 210-226-8271
fax: 210-226-0913
email:sales@deansteeel.com
Descr: Veteran-owned corporation that is well known in the marine/offshore industry for providing high quality IMO-FTP Code and USCG CFR-46 marine fire doors, frames, and windows. Deasteel also offers various types of steel marine berths.
Products: Windows, Marine

DeepSea Power & Light
3855 Ruffin Road
San Diego, CA 92123
www.deepsea.com
Erik Goodin
tel: 858-576-1261
fax: 858-576-0219
email:sales@deepsea.com
Descr: Manufacturer of underwater video and lighting systems.
Products: Underwater Video Cameras

Deluxe Johns Inc.
310 Ash St.
New Iberia, LA 70563
John Trappey
tel: 337-367-9608
fax: 337-367-2396
email:john.trappey@runningwatersinc.com
Descr: Portable Toilet Business
Products: Portable Restroom Trailer/ Portable toilets, Sanitation Device- Pollution Control, Waste Water Treatment

Depco Power Systems
8123 Hillsboro Avenue
Houston, TX 77029
www.depco.net
Hubert Rigmaiden
tel: 713-675-6100
fax: 713-675-6600
email:sales@depco.net
Descr: Sales and service of used, rebuilt and new diesel engines, generator sets, marine gears and related parts
Products: Cummins, Cat, Detroit Diesel Diesel Engines and GenSets, Twin Disc Marine Gears, Diesel Engine- Spare Parts & Repair, Engines

Designs In Time
277 West Main Street
Yarmouth, ME 04096
Joel R. York
tel: 207-846-1666
fax: 207-846-1666
email:ryork2@maine.rr.com
Descr: CAD design of ships and facilities
Products: Logix ICF buildings for yard workshops and office space. Extreme durability and thermal efficiency.

Desmi Inc.
2551 Elitham Ave, Suite G
Norfolk, VA 23513
www.ro-cleandesmi.com
Stewart Ellis
tel: 757-857-3169
fax: 757-857-6989
email:info@ro-cleandesmi.com
Descr: Oil spill equipment manufacturer

Desmond Stephan Mfg
317 S. Walnut St.
Urbana, OH 43078
www.desmond-stephan.com
Bob McConnell
tel: 937-653-7181
fax: 937-653-5511
email:desmondmfg@ctcn.net
Descr: Manufacturers Scarfing Cutters and Barnacle Removal Tool
Products: Coatings/ Corrosion Control/ Paint, Shipbuilding-Repairs, Maintenance, Dry docking

Diamond Dehumidification Inc.
11927 Windfern Rd.
Houston, TX 77064
www.diamonddh.com
John Karklin
tel: 713-681-3449
fax: 713-688-8273
email:jarklin@diamonddh.com
Descr: Rent/Sale of industrial dehumidification equipment
Products: Dehumidifiers, Air Movers, Heaters, Air-Conditioning, Air conditioning & Refrigeration, Corrosion Control

Diesel America West, Inc.
P.O. Box 968
Friday Harbor, WA 98250
www.dawest.com
Sales Dept
tel: 360-378-4812 or 800-343-7351
fax: 360-378-3315
email:dawest@rockisland.com
Descr: Provider of portable diesel equipment
Products: Diesel Powered Water Pumps, Generators, Compressors, Pressure Washers

Directions In Design, Inc.
1849 Craig Road
St. Louis, MO 63146

www.didinc.com
Sharon May-Zinsler
tel: 314-205-2010 x319
fax: 314-205-0889
email:may-zinslers@didinc.com
Descr: Interior planning and procurement firm for marine environments of all types.
Products: Ceilings, Lighting, Furniture, Floor Coverings, Consultants, Interiors

Diversified Lifting Systems Inc.

4702 Distribution Dr.
Tampa, FL 33605
www.diversifiedlifting.com
Billy Crowe
tel: 800-752-1214
fax: 813-248-6057
email:lbernier@diversifiedlifting.com
Descr: Rigging Manufacturer
Products: Tow, Mooring and Push Wires-Wire Rope, Web and Chain products, Deck Machinery- Cargo Handling Equipment, Rope-Manila-Nylon-Hawasers-Fibers, Winches and Fairleads

DOER Marine

1827 Clement Ave. Bldg. 19
Alameda, CA 94501
www.doermarine.com
Liz Taylor
tel: 510-530-9388
fax: 510-749-8377
email:Liz@doermarine.com
Descr: Subsea Robotics and Submersible Systems. Levee Inspection Systems
Products: ROVs, Underwater Inspection Systems, Manipulators, Thrusters, Tunnel/Pipeline Survey Equipment, Consultants, Marine Equipment, Oil Spill Response

Dolphin Marine International

701 Edwards Avenue
Elmwood, LA 70123
www.dolphinmarineinternational.com
Todd Cheramie
tel: 985-475-5585
fax: 985-475-8651
email:wkearney@imperialtrading.com
Descr: Offshore, Rig and Construction Towing Products: Offshore, High Horsepower Marine Towboats

Dominion Diving Limited

7 Canal Street
Dartmouth, NS B2Y 2W1
Canada
www.dominiondiving.com
John Scott
tel: 902-434-5120
fax: 902-463-7966
email:jscott@dominiondiving.com
Descr: Offshore Diving and ROV company.
Products: Offshore Divers, ROVs and Equipment, Marine Equipment, Salvage

DPS Technology

5662 Calle Real #311
Goleta, CA 93117
www.dpstechnology.com
Allen Hundley
tel: 805-681-0586
fax: 703-940-7081
email:ajh@dpstechnology.com
Descr: Sub-bottom Profiling, Sidescan Sonar systems and consulting expertise
Products: Sub-Bottom Profiling, Sidescan Sonars and bathymetry, GPS, Marine Electronics

Dreyfus-Cortney-Lowery Rigging & Mooring

4500 North Galvez Street
New Orleans, LA 70117
www.dcl-usa.com
Roland Ross
tel: 337-839-0226
fax: 337-839-0229
email:sales@dcl-usa.com
Descr: Rigging, Mooring & Marine Supplies
Products: Wire & Nylon Reels & Slings, Anchors & Chains, Fendering Systems/ Buoys - Dock & Vessel, Rope-Manila-Nylon-Hawasers-Fibers

Driveline Service of Portland, Inc.

9041 N.E. Vancouver Way
Portland, OR 97211
www.driveshafts.com
Kevin McCaffrey
tel: 503-289-2264
fax: 503-289-6838
email:Kevin@driveshafts.com
Descr: Driveshaft assemblies, parts, and repair
Products: Couplings, Propulsion Equipment, Shafts

Dufour, Laskay & Strouse, Inc.

11811 I-10 East Freeway Suite 240
Houston, TX 77029
www.portlite.com
Norm Dufour
tel: 713-330-3388
fax: 713-330-3553
email:ndufour@portlite.com
Descr: Marine Surveyors - Hull, Machinery & Cargo
Products: Marine Surveying-Hull, Machinery and Cargo, Consultants, Salvage

Duramax Marine LLC

17990 Great Lakes Parkway
Hiram, OH 44234
www.DuramaxMarine.com
Michael Schonauer or Lewis Foster
tel: 440-834-5400
fax: 440-834-4950
email:info@duramaxmarine.com
Descr: Manufacturer of Cutless brand water lubricated bearings, DuraCooler Keel Coolers, Stuffing Boxes, Shaft Seals, and Dock

Bumper
Products: Bearing- Rubber, Metallic, Non-Metallic, Heat Exchangers, Seals

Dynamold Inc.

2905 Shamrock Ave.
Fort Worth, TX 76107
www.dynamold.com
Michael Peck
tel: 817-335-0862
fax: 817-877-5203
email:mpmpeck@dynamold.com
Descr: Manufacturing
Products: Moldable epoxy shocks

E Paint Company

25 Research Road
East Falmouth, MA 02536
www.epaint.net
Alex Walsh
tel: 800-258-5998
fax: 508-495-3210
email:alex@epaint.net
Descr: Paint and Coatings Manufacturer
Products: Antifouling, Coatings/ Corrosion Control/ Paint

E.V. Burt Holdings Corp. / Ocean Scan Systems

Box 88, Black Diamond Rd
Belleville, Ont. K8N4Z9 Canada
www.vernoncorporation.com
Ed Burt
tel: 613-968-3231
fax: 613-968-7190
email:edburt@kos.net
Descr: Marine hardware and surveyors
Products: Mfg. of Marine Hardware & Hatches - underwater survey and equipment sales

EcoEnergy Systems Inc.

821 Franklin Avenue - Suite 208
Garden City, NY 11530
www.pyrocool.org
John Sexton
tel: 516-873-0504
fax: 516-294-6602
email:ecoenrgy@hotmail.com
Descr: Provide environmentally responsible fire extinguishing chemical used on large ship fires, rail car fires, Ground Zero and brought to New Orleans by FEMA.

Electronic Marine Systems

800 Ferndale Place
Rahway, NJ 07065
www.emsmarcon.com
Tom Priola
tel: 732-382-4344
fax: 732-388-5111
email:emsmarcon@aol.com
Descr: Automation, Tank Gauging and sensor Manufacturer
Products: Tank Gauging, high level/overflow systems manufacturer, Control System-Monitoring/Steering, Monitoring Systems

Elemental Innovation, Inc.

1083 Bloomfield Avenue
West Caldwell, NJ 07006
www.elementalinnovation.com
Justin Bishop
tel: 973-227-0145
fax: 973-227-9109
email:jbishop@elementalinnovation.com
Descr: Coastal protection through eco-friendly, tunable HALO wave attenuators, erosion protection systems, and security barriers.
Products: HALO suite of wave attenuators, erosion control systems and Security Barriers, Marine Equipment, Security

Ellicott Dredges, Div. of Baltimore Dredges, LLC

1425 Wicomico Street
Baltimore, MD 21230
www.dredge.com
Paul Quinn
tel: 410-545-0240
fax: 410-545-0293
email:rmanning@dredge.com
Descr: Complete line of Ellicott cutterhead "DRAGON"(tm) , "SUPER DRAGON" (tm) and Mud Cat(tm) auger dredges. Transportable dredges are available for lease and/or purchase to provide solutions in cleanout of ponds, rivers and canals.
Products: Dredges

EMCSq Vessel Wrytha

202 Alyce
Long Beach, MS 39560
www.emcsq.com
Ed Carlsen
tel: 228-863-1772 or 228-806-0545 (cell)
email:ed@emcsq.com
Descr: Naval architecture, marine recovery and salvage surveys, field engineers, MS Casino certified
Products: Consultants, Marine Engineering, Naval Architects, Marine Engineers

Emerson Bearing

201 Brighton Avenue
Boston, MA 02134
Tel: 1-800-225-4587
Fax: 1-800-252-1996
E-Mail: info@emersonbearing.com
Web: www.emersonbearing.com
CEO: Steven Katz

For 50 years Emerson Bearing has been a leading supplier of Ball and Roller Bearings to the Marine and Shipping industry. With over 28,000 sq. ft. of inventory and 24/7 service Emerson can meet your immediate needs ranging from Pillow Blocks, Split Bearings, Sheave wheel crane bearings, Oil Seals, Hydraulic cylinders and equipment, and much more.

Enduro Composites

16602 Central Green Blvd.
Houston, TX 77032
www.endurocomposites.com
Flavio Ortiz
tel: 713-358-4000
fax: 713-358-4100
email:sales@endurosys.com
Descr: Manufacturer of fiberglass roofing, siding, cable tray and pipe
Products: Roofing and Siding (Building Materials), Corrosion Control, Electrical Equipment, Pipe Fittings/Cuttings/Connecting/ Systems

ESI - Equipment & Services International, LLC

5810 Post Road
East Greenwich, RI 02818
www.esilc.cc
Pedro Duran
tel: 401-884-2893
fax: 866-506-2760
email:sales@esilc.cc
Descr: Marine cranes and deck machinery
Products: Capstans, Crane - Hoist - Derrick - Whirleys, Windlasses (Anchors)

F.M.I. Technical Sales Inc. / Prime Air Blowers

P.O. Box 2
Ramsey, NJ 07446
www.fmiinc.com
Frank Illuzzi
tel: 201-327-2014
fax: 201-818-0899
email:sales@fmiinc.com
Descr: Marine Portable Blower Distributor

Fairbanks Morse Engine

701 White Ave.
Beloit, WI 53511
www.fairbanksmorse.com
Kevin Lidbury - Sales Manager
tel: 608-364-4411
fax: 608-364-8417
email:kevin.lidbury@fairbanksmorse.com
Descr: Innovative power solutions for electric power generation, marine propulsion, and engineered industrial applications.
Products: Electric Power Generation, Diesel Engine- Spare Parts & Repair, Engines

FCI Watermakers

221 West Dyer Road
Santa Ana, CA 92707
www.fcwatermakers.com
Rose Garcia
tel: 714-850-0123
fax: 714-850-0955
email:rose@fcwatermakers.com
Descr: Manufacturer of water purification equipment
Products: Desalination - Reverse Osmosis, Filters/Filter Systems, Water Purifiers

Fearnley Offshore Supply

One River Way, Suite 1810
Houston, TX 77056
www.fearnleyoffshore.com
Harald Paulsen Lovik
tel: 713-629-7072
fax: 713-629-7073
email:hp.lovik@fearnleys.no
Descr: Shipbrokers
Products: Specialized in offshore supply and support vessels.

Fluid Mechanics, Inc.

4521 West 160th Street
Cleveland, OH 44135
www.fluidmechanics.com
Tom Schauer
tel: 216-362-7800
fax: 216-362-7812
email:tschauer@fluidmechanics.com
Descr: Diesel fuel injection systems, parts and service
Products: L'Orange, Woodward (Lucas/Bryce), Duap & Bosch fuel systems,

FRP Resource LLC

119A El Dorado Street
Arcadia, CA 91006
www.frpresource.com
James Huang
tel: 626-698-6151
fax: 626-445-2198
email:james@frpresource.com
Descr: GLOBALGRID decking widely used in the commercial and private marina industry as the docks(walkways and platforms), gangways, knee brackets and trans plates etc.
Products: GLOBALGRID decking

GE Commercial Finance

10900 NE 4th Ave, Suite 500
Bellevue, WA 98004
www.ge-cef.com
Steve Isaacson
tel: 425-450-1808
email:stephen.isaacson@ge.com
Descr: Marine Financial Services Unit of GE
Products: All marine and vessel financing products and services, Deck Machinery-Cargo Handling Equipment, Electrical Equipment, Marine Equipment

Geislinger Corporation

200 Geislinger Drive
Battle Creek, MI 49015
www.geislinger.com
Sabine Mosdorfer
tel: 269-441-7000
fax: 269-441-7001
email:mosdorfer@geislinger.com
Descr: Manufacturer of torsional vibration couplings and dampers

Generon IGS

11985 FM 529
Houston, TX 77041
www.igs-global.com
Ken Beaven
tel: 713-937-5200
fax: 713) 937 5250
email:kbeaven@generon.com
Descr: Manufacturer
Products: Custom designed, on-site generated N2 equipment, Filters/Filter Systems, Marine Equipment

George G. Sharp, Inc.

22 Cortlandt Street, 10th Floor
New York, NY 10007
www.ggsharp.com
Allen Chin
tel: 212-732-2800
fax: 212-732-2809
email: achin@ggsharp.com
Descr: Naval architects and marine engineers
Products: Ship design, engineering services, naval architects, marine engineers.

George Sperry Marine Surveys

PO Box 78
Blue Mountain Lake, NY 12812
www.frontiernet.net/~gsperry/
George Sperry
tel: 518-352-7741
fax: 518-352-7741
email:gsperry@frontiernet.net
Descr: We provide damage surveys for boats
Products: Marine Surveys (Boat Damage Surveys) Nov-April only

GET Inc.

P.O. Box 90756
Long Beach, CA 90809
www.get-inc.com
Martin Lizer
tel: 562-983-7777
fax: 562-983-7717
email:info@get-inc.com
Descr: Water Purification Equipment OEM, Reverse Osmosis, UV Sterilization, Glycol Recycling
Products: Glycol Recycling, Desalination - Reverse Osmosis, Waste Water Treatment, Water Purifiers

Giant Industries, Inc.

900 N. Westwood Avenue
Toledo, OH 43607
www.giantpumps.com
Monica Ritter
tel: 419-531-4600
fax: 419-531-6836
email:mritter@giantpumps.com
Descr: High Pressure Pumps and Accessories
Products: Desalination - Reverse Osmosis, Pump-Repair-Drives, Water Jet Cleaning

Glix Products Mfg.

93 N.W. 166th St
Miami, FL 33169
www.glixprod.com
Rebecca/Sales
tel: 305-947-4851
fax: 305-949-6620
email:sales@glixprod.com
Descr: Manufacturer of marine hardware & washroom specialties
Products: Fire & Safety Products, Safety Products, Security

Global Project Consultants, Inc.

14800 St. Mary's Lane, Suite 250
Houston, TX 77079
www.globalproject.com
Charlie Fife
tel: 281-759-1650 x 110
fax: 281-759-1744
email:fifec@globalproject.com
Descr: Project/ Construction Management Services and Consulting for Oil and Gas - Onshore/Offshore
Products: QA/QC, Inspection, Procurement, Project Controls, CAD/CAM Systems, Consultants, Marine Engineering

Globalstar

461 S. Milpitas Blvd
Milpitas, CA 95035
www.globalstarusa.com
John Dark
tel: 877-SATPHONE
email:john.dark@globalstar.com
Descr: Satellite Phone and Modem Provider
Products: Communications, Marine Electronics, Satellite Communications

Governor Control Systems

3101 SW 3rd Avenue
Ft. Lauderdale, FL 33315
www.govconsys.com
Lynn Bell
tel: 954-462-7404
email:lynn.bell@govconsys.com
Products: Control System-Monitoring/Steering, Marine Electronics, Monitoring Systems

Great Circle Shipping Corporation

3 West Garden Street, Suite 332
Pensacola, FL 32502
www.greatcircleship.com
Thomas McCulley
tel: 850-429-0510
fax: 850-429-0520
email:calm@greatcircleship.com
Descr: Chartering and Logistics Management - Dry Bulk, Breakbulk and Projects
Products:

Greg Hanchrow Marine Services

620 Russet Road
Valley Cottage, NY 10989
Greg Hanchrow
tel: 646-247-4172
email:greg.hanchrow@verizon.net
Descr: Project Mgmt; Marine Engineering

Products: Consultants, Marine Engineering, Navigation

Griffin Americas

3646 Greenbriar
Houston, TX 77098
www.griffintravel.com
Robert Gold
tel: 713-535-1480
fax: 713-522-6530
email:ops.hou2@griffintravel.com
Descr: Specialists in Marine/Offshore Travel
Products: airline travel

GS-Hydro

16405 Air Center Blvd., Suite 400
Houston, TX 77032
www.gshydro.com
Doug Cooper
tel: 281-209-1000
fax: 281-209-2905
email:doug.cooper@gshydro.us
Descr: Non-Welded Piping

Guascor

143 Mallard St.Ste.F
St.Rose, LA 70087
www.guascor-usa.com
Kelly Lacy-General Manager
tel: 504-461-3801
fax: 504-461-3806
email:kglacy@earthlink.net
Descr: Diesel & Gas Engine Manufacture
Products: Reduction Gears and Generators

Gulf Harbor Shipping, LLC

2000 Old Spanish Trail, Suite 100
Slidell, LA 70458-8604
www.gulflharbor.com
Daryl H. Van Derwood
tel: 985-661-8005
fax: 414-921-5013
email:mail@gulflharbor.com
Descr: Steamship Agents:

Gulf Logistics & Projects Co. Inc.

9610 Long Point Road, Suite 330
Houston, TX 77055
www.glpamerica.com
Capt. J.D. Kim or Don Johnson
tel: 713-973-8865
fax: 713-973-8864
email:kim@glpamerica.com
Descr: Project transport, heavy lifts to site
Products: Freight transportation, SBA: HUBZ, 8(a), SDB.,

H & J Services Inc.

4249 CR 571
West Columbia, TX 77486
hjservices@earthlink.net
Thayer A Reeves
tel: 866-386-5100 (Toll Free) or 832-545-8044
fax: 979-345-3651
email:hjservices@earthlink.net
Descr: Electrical Contracting, Generator and Motor Repair
Products: General Electrical installation and Repair, Motor Control Installation and Repair, Generator / Motor, Removal, Repair / Rewind and Installation, Communications, Electrical Equipment, Lighting Systems/ Equipment

H.M.S. Communications, Inc.

P.O. Box 701156
Houston, TX 77027
www.donegal-holdings.com
Richard L Halferty II
tel: 832-660-5103
fax: 713-862-6252
email:sales@donegal-holdings.com
Products: Communications, Marine Electronics, Satellite Communications

Hallsten Corporation

P. O. Box 41036
Sacramento, CA 95841
www.hallsten.com
John Hallsten
tel: 916-331-7211
fax: 916-331-7223
email:jhallsten@hallsten.com
Descr: Manufacturer of Alum Gangways and Docks
Products: Aluminum Gangways and Aluminum Boat Docks

Hanko's Metal Works Inc.

9199 Hwy 182 East
Morgan City, LA 70380
www.hankos.com
Hank Jr.
tel: 985-385-3310
fax: 985-385-4212
email:hanko@hankos.com
Descr: Honda dealership, custom built boats, and custom aluminum products
Products: Aluminum Boats, Marine Equipment, Propulsion Equipment

Hans Wilson & Assoc. Inc.

1938 Hill Ave.
Ft. Myers, FL 33901
www.hanswilson.com
Hans Wilson
tel: 239-334-6870
fax: 239-334-7810
email:hans@hanswilson.com
Descr: Environmental Consulting and Marine Engineering
Products: Consultants, Marine Engineering, Shipyards

Hansard Security Services

The Baltic Exchange, 38 St Mary Axe
London, EC3A8BH UK
www.hansardsecurity.com
Tim Barker
tel: +44 [0]20 7283 5076
fax: +44 [0]20 7626 0733

email:services@hansardsecurity.com
Descr: Security Services
Products: Strategic assessment and advice. Maritime Security surveys and implementation, Consultants, Security, Training

Hayn Enterprises LLC

51 Inwood Road
Rocky Hill, CT 06067
www.hayn.com
Andy Colotton
tel: 800-346-4296
fax: 800-441-4296
email:marine@hayn.com
Descr: State-of-the-Art manufacturer of rigging and lifeline hardware including the Hi-Mod mechanical rigging terminals. Also specializing in architectural, safety, and fall-protection hardware
Products: Rigging, lifeline, safety, and fall-protection equipment, Marine Equipment, Safety Products

Henry Marine Service Inc.

12 Craig Avenue
Staten Island, NY 10307
Dorothy E. Julian
tel: (718) 966-6193
fax: (718) 966-6193
email:henrymarine@si.rr.com
Descr: Tugboat services - Marine transportation
Products: Tugboat services - marine transportation, Marine Equipment, Propulsion Equipment, Salvage

Hiller Companies

3751 Joy Springs Drive
Mobile, AL 36693
www.hillercompanies.com
Daniel Romanchuk
tel: 251-661-1275
fax: 251-661-5340
email:dromanchuk@hillercompanies.com
Descr: Fire Suppression and detection; Flooding
Products: Fire & Safety Products, Marine Decking & Flooring, Safety Products

Hillmann Maritime, Inc.

PO Box 4304
Silver Spring, MD 20914
Fred Hillmann
tel: 301-622-1120
fax: 301-622-9715
email:fredhillmann@att.net
Descr: Maritime Consultants
Products: Consultants, Naval Architects, Marine Engineers

Horizon Reverse Osmosis

P.O. Box 5463
Carson, CA 90745
www.hrosystems.com
AJ Paulus
tel: 310-631-6300
fax: 310-631-6395
email:audrey@hrosystems.com
Descr: Marine reverse osmosis desalators
Products: Desalination - Reverse Osmosis, Marine Equipment, Water Purifiers

Houston Marine Consultants

4509 Maple St
Bellaire, TX 77401
www.grovermovie.com
Mukul H. Advani
tel: 713-592-9867
fax: 713-592-0244
email:hmtx@ev1.net
Descr: Marine Surveys, Consulting, Marine Insurance Claims Handling, Port Engineering, Cargo Surveys, Machinery Surveys, Dry-docks
Products: Marine Surveys, Consulting, Marine Insurance Claims Handling, Diesel Engine-Spare Parts & Repair, Marine Engineering, Naval Architects, Marine Engineers

Houston Marine Services, Inc.

363 N. Sam Houston Pkwy E., Suite #890
Houston, TX 77060
www.hmsfuels.com
Ed Grimm III
tel: 713-868-2000
fax: 281-445-8881
email:ed.grimm@hmsfuels.com
Descr: Stores and blends marine fuels for sale and delivers by truck and barge along the Texas and Louisiana Gulf Coast
Products: Marine Diesel and Lubes

Hovertrans, Inc

333 N.Sam Houston Parkway East, Ste # 400
Houston, TX 77032
www.hovertrans.com
Jim Ireland
tel: 281-582-8994
email:jim@hovertrans.com
Descr: Air cushion systems
Products: Hovercraft

Hudson Marine Management Services

4350 Haddonfield Road S Uite 302
Pennsauken, NJ 08109
www.hmms-usa.com
John Devine
tel: 856-486-0800
fax: 856-486-0081
email:john.devine@hmms-usa.com
Products: Safety and Security, Consultants, Safety Products, Security

Hyde Marine, Inc.

28045 Ranney Parkway
Cleveland, OH 44145
www.hydemarine.com
Tom Mackey
tel: 440-871-8000
fax: 440-871-8104

email:info@hydmarine.com
Descr: Marine and Oil Spill Response Equipment
Products: Water and wastewater treatment equipment, Marine Equipment, Oil Spill Response

Hydra-Dynamics, Inc.
19 Wrenfield Place
The Woodlands, TX 77384-4696
www.hdieng.com
J C Miller
tel: 936-273-2882
fax: 936-273-2883
email:sales@hdieng.com

Descr: Marine cylinders and systems
Products: Hydraulic cylinders, Consultants, Steering Gears/ Steering Systems

Hydraulic Systems Ltd

22 Sudbury St
St. John's, NF A1E 2V1
Canada
www.hydraulic-systems.com
Eddy Knox
tel: 709-726-3490
fax: 709-726-3729
email:eknox@hydraulic-systems.com
Descr: manufacturer, services provider
Products: Crane - Hoist - Derrick - Whirleys, Lifesaving Equipment, Winches & Fairleads

Hydro-Watt, Inc.

22792 State Highway 20
Nevada City, CA 95959
www.hydro-watt.com
Michael Wedel
tel: 530-265-5099
fax: 530-265-9411
email:mike@hydro-watt.com
Descr: Marine and Pump Bearings Systems, Pump and Steam Turbine Repair
Products: Bearing- Rubber, Metallic, Non-Metallic, Rudder Bearings & Bushes, Stern Tube Bearings/ Bushes

Ideal Technical Services

26148 Capital Drive, Suite B
Daphne, AL 36526
www.ideal4u.com
Lynn Hochradel
tel: 800-370-8495 x3025
fax: 800-264-6702
email:hochradel@ideal4u.com
Descr: Marine Staffing Firm - Engineers, Naval Architects, Marine Engineers
Products: Marine Engineering, Naval Architects, Marine Engineers

ImpactWeather, Inc.

8787 Tallyho Rd.
Houston, Texas 77061
Tel: (877) 792-3220 Toll free
Tel: (713) 378-2720 Houston Metro • Fax: (713) 943-4645
E-mail: marellano@impactweather.com •
http://www.impactweather.com
For more information, contact: Mike Arellano Industry Manager, Offshore/Marine

ImpactWeather provides accurate and timely marine weather information - a key component of the decision-making process. Whether you're sailing across the Atlantic, or managing a weather-sensitive project, our comprehensive worldwide marine weather forecasts can provide the critical information you need to operate safely and efficiently in any marine environment.

Imperial Quality Machining

1455 Corey Way South
St. Petersburg, FL 33707
www.imperialquality.com
Capt. Carl F. Schlemmer
tel: 727-347-1382
fax: 727-347-1382
email:captaincarl@imperialquality.com
Descr: Machine shop
Products: 8 Way Adjustable Engine Mounts

Impulse Enterprise

8254 Ronson Road
San Diego, CA 92111
www.impulse-ent.com
Andy Gardner
tel: 858-565-7050
fax: 858-565-1649
email:andyg@impulse-ent.com
Descr: Manufacturer of harsh environment electrical connectors and cable assemblies
Products: Electrical Equipment, Marine Equipment

Independent Marine Systems

580 Thames Street
Newport, RI 02840
www.infraredboat.com
Mark Ashton
tel: 401-965-2594
fax: 401-842-6831
email:imsys@earthlink.net
Descr: Yacht Surveyors and Consultants.
Marine Thermography/Infrared Surveying

Industrial Power Systems, Inc.

3010 Powers Avenue
Jacksonville, FL 32207
Glenn Beaupre
tel: 904-731-8844
email:glenn@ipsjax.com
Descr: Marine switchboards and controls

INTEK Technology

3945 University Drive
Fairfax, VA 22030
www.intektechnology.com
James Williams
tel: 866-273-1177
fax: 703-995-4635
email:jwilliams@intektechnology.com
Descr: Specialty Chemicals
Products: Environmentally safe cleaning chemicals, degreasers, electrical systems cleaners

IntelliStaff, Inc.

5241 Magnolia Terrace
Fruitland Park, FL 34731
Kevin Grondahl
tel: 352-315-9912
fax: 352-315-9952
email:intellistaff@earthlink.net
Descr: Specialize in the search and placement of Boat/Yacht manufacturing/engineering personnel
Products: IntelliStaff, Inc. is your personnel resource center for experienced boat/yacht builders, managers, and engineers

Interface Protective Coatings

655 Langham #10
Beaumont, TX 77707
www.nocorrode.com
Mark McCoy
tel: 409-835-6888
fax: 409-835-6889
email:mmccoy@exp.net
Descr: Coatings / waterproofing / roofing
Products: Spray on waterproofing, coatings, polyurea, spray foam insulation, Coatings/ Corrosion Control/ Paint, Corrosion Control, Insulation

International Boatlift Exchange, Inc.

510 Sportsman Park Dr
Seffner, FL 33584
www.ibeglobal.com
James Alfieri
tel: 813-653-4390
fax: 813-653-4399
email:ibe@tampabay.rr.com
Descr: New and used Boat Moving Equipment sales and service. Specializing in Travel Hoists and Marine forklifts from 10,000 lb. to 900 metric tons.
Products: Mobile Boat Hoists, Marina Forklifts, Travelifts, Hydraulic Boat Transporters, Crane - Hoist - Derrick - Whirleys, Marine Equipment

International Flooring & Protective Coatings, Inc.

4675 E. Princess Anne Rd.
Norfolk, VA 23502
www.internationalflooring.com
R. Stephen Solomon
tel: 757-855-5286
fax: 757-853-5980
email:ssolomon@internationalflooring.com
Descr: marine decking, blasting, painting, coatings, other various flooring products
Products: Marine Decking & Flooring, Surface Prep Tools, Water Jet Cleaning

InterPlan Systems Inc.

P.O. Box 590131
Houston, TX 77259
www.interplansystems.com/
Bernard Ertl
tel: 1-281-482-1796
fax: 1-281-648-1821
email:info@interplansystems.com
Descr: Offers eTaskMaker project planning tool for ship maintenance projects.
Products: Computer/ Computer Software, Shipbuilding-Repairs, Maintenance, Drydocking, Software

ITW American Safety Technologies

679 Anita Street, Suite A
Chula Vista, CA 91911
www.itwast.com
C. J. Heard
tel: 619-575-0590
fax: 619-575-0592
email:astcv@pacbell.net
Descr: MILSPEC Interior/Exterior Deck Coatings
Products: Coatings/ Corrosion Control/ Paint, Marine Decking & Flooring

ITW Philadelphia Resins

130 Commerce Drive
Montgomeryville, PA 18936
www.chockfast.com
Stan Nelson
tel: 215-855-8450
fax: 215-855-4688
email:stan.nelson@itwprc.com
Descr: Manufacture Epoxy Products
Products: Epoxy Chocking Material

J A Moody Equipment Specialists

589-1 Levy Road
Atlantic Beach, FL 32233
www.jamesi.com
Jonathan Hogue
tel: 904-247-1041
fax: 610-647-3833
email:j.hogue@jamesi.com
Descr: stocking distributor marine valves/actuators
Products: valves, actuators

Japan Radio Company ,Ltd

1021 SW Klickitat Way, D-101
Seattle, WA 98134
www.jrcamerica.com
Patricia Beth Barker
tel: 206-654-5644
fax: 206-654-7030
email:tbarker@jrcamerica.com
Descr: JRC is an ISO 90001/14001 manufacturer of marine electronics; Inmarsat satellite, Communications, GMDSS systems, Navigation, AIS, VDR, ECDIS SART, DGPS, GPS, GPS Comapps, EPIRB and Sonar
Products: AIS, VDR, Marine Electronics, Nav/Comm Equipment, Satellite Communications

Jarrett Bay Boat Works Inc.

530 Sensation Weigh
Beaufort, NC 28516
www.jarrettbay.com
Jeff Fulcher
tel: 252-728-2690 ext.231
fax: 252-728-2607
email:fulcherj@jarrettbay.com
Products: Full Service Repair facility for vessels of 30' beam to 120' long or 220 tons,

Boatbuilder, Shipbuilding-Repairs, Maintenance, Drydocking

Jefferson Diesel Specialists Inc.

3691 Vonnice Dr.
Harvey, LA 70065
www.jeffersondiesel.com
Steve Jones
tel: 504-340-5162
fax: 504-340-5574
email:sales@jeffersondiesel.com
Descr: Diesel fuel injection repair

JHRG LLC

PO Drawer D 303 S. Pine Street
Spring Hope, NC 27882
www.hsarmor.com
Dan Nathan
tel: 800-849-4997
tel: 252-278-4998
email:dnathan@hsarmor.com
Descr: Makers of Supreme Protector Covers - World's Strongest Fabric
Products: Chafe Protection; High Performance fabrics to tarps and deck gear covers, Corrosion Control, Deck Machinery- Cargo Handling Equipment, Salvage

John Sabella & Associates, Inc.

805 W Emerson St
Seattle, WA 98119
www.johnsabella.com
Elizabeth Bowman
tel: 206-281-8626
fax: 206-217-0899
email:info@johnsabella.com
Descr: Educational Media
Products: Maritime Security Series, Onboard Basic Safety Training Program, Maritime Medical Emergencies Training, Onboard First Aid Training, Marine Survival Equipment Training,

John W. Gilbert Associates, Inc.

75 Terry Drive Suite 200
Hingham, MA 02043
inbox@jwgainc.com
Christine Gaffney
tel: 781-740-8193
fax: 781-740-8197
email:cgaffney@jwgainc.com
Descr: Naval Architect/Marine Engineering
Products: Naval Architecture/Marine Engineering, Consultants

Julian A McDermott Corp.

1639 Stephen Street
Ridgewood, NY 11385
Vernon McDermott
tel: 718-456-3606
fax: 718-381-0229
email:vernon@mcdermottlight.com
John Boc
tel: (800) 842 5708
fax: (718) 381-0229
email:sales@mcdermottlight.com
Descr: Manufacturer lights, solar, battery, navigation
Products: Buoys, Buoy lights, Navigation lights, Barge lights, Anchor lights, Lighting Systems/Equipment, Safety Products

JW Fishers Mfg.

1953 County Street
East Taunton, MA 02718
www.jwfishers.com
Christopher Combs
tel: 508-822-7330
fax: 508-880-8949
email:jwfishers@aol.com or
info@jwfishers.com
Descr: Manufacturer of complete line of underwater search equipment including underwater metal detectors, marine magnetometers, underwater camera systems, and side scan sonars.
Products: Underwater search equipment, Marine Equipment, Salvage, Security

Karl Senner, Inc.

25 west 3rd St.
Kenner, LA 70062
www.karlсенner.com
Michael Senner
tel: 504-469-4000
fax: 504-464-7528
email:sales@karlsenner.com
Descr: Distributor of Reintjes Marine transmissions, BERG CPP systems and Steerprop Propulsers
Products: Turbocharger repairs, Marine Equipment, Propulsion Equipment

Katrina Marine Housing

578 Azalea Ave NE
Bainbridge Island, WA 98110
apeters@mindspring.com
Andrew Peters
tel: 206-855-2880
fax: 206-855-2880
email:apeters@mindspring.com
Descr: Small Cruise Ship Ideal for Workers and Managers
Products: 16 Cabin Small Cruise Ship with galley, lounge, dining room, salon and crew

Ken's Marine Service Inc.

116 East 22nd Street
Bayonne, NJ 07002
Ken Poesl
tel: 201-339-0673
fax: 201-339-8029
email:ampd@kensmarine.net
Descr: Marine oil spill response company

Kennedy Ship andRepair

6200 Harborside
Galveston, TX 77554
www.kennedyship.com
Chris Kennedy
tel: 409-744-5505
fax: 409-744-5088
email:kennedyshiprr@aol.com
Descr: New construction and refit vessels up to 300 ft

Products: Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking, Shipyards

Kerwin Naval Architects, Inc.

1460A S.E. 15th St.
Fort Lauderdale, FL 33316
www.kerwinnavalarchitects.com
Kevin M. Kerwin
tel: 954-524-9013
fax: 954-524-9013
email:kevin@kerwinnavalarchitects.com
Descr: Naval Architecture & Marine Engineering firm
Products: Consultants, Marine Engineering, Naval Architects, Marine Engineers

Kilgore Marine LLC

1819 W Pinhook, Ste. 109
Lafayette, LA 70508
www.kilgoremarine.com
Charlie Kilgore
tel: 866-4KILGORE
fax: 337-232-5581
email:charlie@kilgoremarine.com
Descr: Marine Transportation Specialists
Products: Offshore Supply Vessels; Crewboats, Utility Boats, Supply Boats, Lift boats, etc., Brokers, Consultants

Kings Point Machinery, Inc.

9936 Gould Street
Oakland, CA 94603
www.kingspointmachinery.com
Don Westfall
tel: 510-638-2712
fax: 510-638-3339
email:kingspointmachinery@yahoo.com
Descr: OEM Vent Check Valves, Deck Drains, Scupper Valves, Deck Connections, Handwheels
Products: Inverted Vent Check Valves, Deck Drains, Scupper Valves, Deck connections, Handwheels, Marine Decking & Flooring, Ventilation Systems / Products

Knight Safety Coatings Company

P.O. Box 2248
Carolina Beach, NC 28428
www.knightsafetycoatings.com
David Tilley
tel: 910-458-3145
email:admin@fryingpantower.com
Descr: Epoxy Based Coatings

Kobelco Eagle Marine, Inc.

366 Fifth Avenue, Suite 712
New York, NY 10001
www.kobelcoeagle.com
David Hawkins
tel: 212-967-5575
fax: 212-967-6966
email:hawkins@kobelco-eagle.com
Descr: Seal & Bearing Maker
Products: Oil & Water Seals and Metallic and Non-Metallic Bearings, Bearing- Rubber, Metallic, Non-Metallic, Rudder Bearings & Bushes, Seals

Kongsberg Maritime

7225 Langtry Street suite 700
Houston, TX 77040
www.km.kongsberg.com
Arnt Olsen
tel: 713 934 8885
fax: 713 934 8886
email:aols@kongsberg.com
Descr: Marine Electronics
Products: Acoustic positioning, Multibeam, Vessel control systems, navigation and motion systems, Autopilot Systems, Marine Electronics, Navigation

L-3 Communications Infrared Products

13532 N. Central Expressway M/S 37
Dallas, TX 75243
www.thermal-eye.com
Michael Studer
tel: 800-990-3275
fax: 972-344-4222
email:irinfo@irp.L-3.com
Descr: Products are high quality, uncooled infrared camera cores and finished products.
Products: Fire & Safety Products, Safety Products, Security

LADD Industries

4849 Hempstead Station Dr
Kettering, OH 45429
www.laddinc.com
Customer Service
tel: 800-223-1236
fax: 937-438-9755
email:sales@laddinc.com
Descr: Exclusive authorized distributor of Deutsch IPD environmentally sealed electrical connectors for use in harsh environments and critical applications.
Products: Electrical Connectors

Lake Champlain Transpotation Company

King Street Dock
Burlington, VT 05401
www.ferries.com
Heather Stewart
tel: 802-864-9804
fax: 802-864-6930
email:LCT@ferries.com
Descr: Year-round ferry company
Products: Ferries

Lake Erie Diving, Inc.

362 Blackbrook Road
Painesville, OH 44077
Patrick Murphy
tel: 440-352-9472
fax: 440-352-8471
email:pmurphy@lakeeriediving.com
Descr: Commercial Diving & ROV Services
Products: ROV-Remotely Operated Vehicles

LANTEC Winch & Gear Inc.

5827 Production Way

Langley, BC V3A 4N5

Canada
www.lantecgear.com
Jeff Lambert
tel: 604-530-0737
fax: 604-530-2889
email:sales@lantecgear.com
Descr: Manufacturer
Products: Winches, Crane Hoists, Planetary Reducers, Crane - Hoist - Derrick - Whirleys, Deck Machinery- Cargo Handling Equipment, Winches & Fairleads

Leistritz Corporation

165 Chestnut Street
Allandale, NJ 07401
www.leistritzcorp.com/pumps
Jeffery De Vault
tel: 201-934-8262 x 21
fax: 201-934-8266
email:staff@leistritzcorp.com
Descr: Leistritz manufactures screw pumps in a variety of configurations, as well as Multiphase Pumps and Centrifugal Pumps.
Products: Screw Pumps, Multiphase Pumps, Centrifugal Pumps

Lewis International Shipping Limited

228 Lakeshore Road West P.O. Box 59526
Mississauga,
Canada
www.lewiship.com
Glenn Lewis
tel: 905-891-7700
fax: 905-891-0522
email:glewis@lewiship.com
Descr: Specialized mover of heavy lift and oversized cargo

LGA Engineering - Marine Services Division

750 Vassar Avenue
Lakewood, NJ 08701
www.birdsall.com
Andrew Raichle, P.E.
tel: 732-961-2162 X5030
fax: 732-961-2162
email:awr@lgaeng.com
Descr: Marine Engineering and Hydrographic Surveying
Products: Consultants, Marine Engineering, Naval Architects, Marine Engineers

Liberty Ship Building Inc.

837 W 13th Street
Riviera Beach, FL 33404
www.libertyyachts.com
Joe Corvelli / Jamie Smith
tel: 561-842-2261
fax: 561-842-0540
email:joecorvelli@libertyyachts.com
Descr: Ship Building and Repair
Products: Boatbuilder, Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking

Lister Chain & Forge, Inc.

3810 Loomis Trail Road
Blaine, WA 98230
www.listerchain.com
M. Stobart
tel: 360-332-4323
fax: 360-332-4247
email:inquiries@listerchain.com
Descr: Manufacturer of marine chain and components including Stud Link Chain, Mooring Chain & Buoy Chain.

Lloyd's Register Americas, Inc.

1401 Enclave Parkway, Suite 200
Houston, TX 77077
www.lr.org
Tim Protheroe, VP, Marine
tel: 281-675-3100
fax: 281-675-3139
email:americas-marine@lr.org
Descr: Independent risk management organization, focusing primarily on classification of ships, which sets standards of quality and reliability during their design, construction and operation
Products: Ship surveyors, Consultants, Naval Architects, Marine Engineers

Robell's Custom Boats

16553 Airline Hwy; P.O.Box 340
Prairieville, LA 70769
www.robellsboats.com
Schofield Robell
tel: 225-673-6646
fax: 225-673-8505
email:robell@eatel.net
Descr: Boat builder
Products: Aluminum Boats, Boatbuilder

Loeffler Corporation

201 E. Lincoln Highway
Pennel, PA
www.loefflercorp.com
Joseph Loeffler
tel: 215-757-2404
fax: 215-757-7105
email:lmc@snip.net
Descr: Manufactures marine Bells, Deck drains, Hose valves
Products: Fire & Safety Products, Marine Equipment, Pipe Fittings/Cuttings/Connecting/ Systems

Lonseal Inc

928 E. 238th Street
Carson, CA 90745
www.lonseal.com
Kinjal Husges
tel: 310-830-7111
fax: 310-830-9986
email:info@lonseal.com
Products: Flooring products

M & I Systems, Inc.

4200 Aurora Avenue North
Seattle, WA 98103
www.mandisystems.com
Dick Biles
tel: 206-547-7899

fax: 206-547-8875
email:Dick@mandisystems.com
Descr: Marine electrical panels & equipment
Products: Electrical distribution panels, Control System- Monitoring/Steering, Electrical Equipment, Monitoring Systems

Mack Boring & Parts Company

2365 Route 22
Union, NJ 07083
www.mackboring.com
Stacy Dersh
tel: 800-MACK-ENG
fax: 800-MACK-FAX
email:info@mackboring.com
Descr: Distributors of premium marine and industrial engines, generators, transmissions, pumps, and other related products.
Products: Diesel Generators, Diesel Pumps, Marine Transmissions, Diesel Engine- Spare Parts & Repair, Engines, Training

Maine Monolite

P.O. Box 276
Topsham, ME 04086
Chris Hendricks
tel: 207-504-4124
fax: (207) 725-6344
email:chendricks@mainemonolite.com
Descr: marineexpeditions@cox.net
Products: Composite Habitation and Support FunctionTrailers, Composite Boats, Composite Buoys, Aluminum Boats, Boatbuilder

Makai Ocean Engineering

P.O. Box 1206
Kailua, HI 96734
www.makai.com
Reb Bellingier
tel: 808-259-8871
fax: 808-259-8238
email:reb.bellingier@makai.com
Descr: Ocean Engineering
Products: Ocean outfalls, marine pipelines, coastal engineering, Consultants, Display Technology

Malin Construction Company

320 77th Street
Galveston, TX77554
www.smith-hamm.com
William "Buzzy" LeGate
tel: 409-740-3314
fax: 409-740-7218
email:buzzyl@smith-hamm.com
Descr: Marine and Industrial fabrication and construction
Products: Riding Repair Crews (Port to Port), Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking

MAMAL, Inc

13919 River Road Suite 200
Luling, LA 70070
www.mamalus.biz
Mike Thibodaux
tel: 985-331-0648
fax: 985-331-0562
email:mtr@itsrtrack.com
Descr: Marine Equipment/Services
Products: Crane - Hoist - Derrick - Whirleys, Deck Machinery- Cargo Handling Equipment, Water Jet Cleaning

Manning Electric, Inc.

155 27th Street
Brooklyn, NY 11232
www.manning-electric.com
Anthony Menditto
tel: 718-832-2488
fax: 718-832-2493
email:amenditto@manning-electric.com
Descr: Marine Electrical Supplies
Products: Marine Lighting, Electrical Equipment, Galley Equipment, Horns/Whistles

MAR, Inc.

1803 Research Boulevard, Ste. 203
Rockville, MD 20850
www.marinc.com
Linda Klages
tel: 301-230-4576
fax: 301-230-4597
email:klages@marinc.com
Products: Computer/ Computer Software, Marine Electronics, Marine Engineering

Marathon Tech International, Inc

5811 Rhodes Ave
New Orleans, LA 70131
www.marathon-tech.com
Terry Marathonitis
tel: 504-433-5311
fax: 504-433-5305
email:terry@marathon-tech.com
Descr: Information technology specialists. Custom built servers and workstations. eNOAD specialists.
Products: Computers, Monitors, Printers, Networking equipment, eNOAD solutions, consulting, Computer/ Computer Software, Software

Marcon International, Inc.

P.O. Box 1170; 9 NW Front Street Ste. 201
Coveville, WA 98239
www.marcon.com
Bob Beegle
tel: 360-678-8880
fax: 360-678-8890
email:info@marcon.com
Descr: Shipbroker specializing in towing & off-shore petroleum

Marin Mätteknik AB

Nya Varvet, Byggnad 84
V.Frölunda, VGL SE42671
Sweden
www.mmtab.se
Anders Höfnell
tel: +46(0)31-695280
fax: +46(0)31-695290
email:anders.h@mmtab.se
Descr: Marine bathymetrical and geophysical survey, littoral and offshore

</

Products: Marine survey, Consultants, Navigation

Marine & Industrial Controls

2010 Hwy 190W Suite 114
Livingston, TX 77351
Garry Broussard
tel: 936-646-3419
fax: 801-406-3365
email:micontrols@earthlink.net
Descr: Electrical Electronic Controls Service Engineering and commissioning
Products: Marine Engineering, Monitoring Systems, Ship Repair

Marine Contractors Inc

105 Century Drive, Port Ambridge Industrial Park
Ambridge, PA 15003
Harry E. Zubik
tel: 412-580-4992
fax: 724-266-2807
email:h.zubik@att.net
Descr: Heavy construction rivers and lakes
Products: Marine Engineering, Marine Equipment, Shipbuilding-Repairs, Maintenance, Drydocking

Marine Electronics Solutions, Inc.

901 Edwards Avenue, Suite 400
New Orleans, LA 70123
www.mes-solutions.net
Clay W Mazyck, Jr.
tel: 504-734-2040
fax: 504-734-0660
email:sales@mes-solutions.net
Descr: Command, Control, Computers, Intelligence, Surveillance & Reconnaissance (C4ISR) System Integrator
Products: Marine Electronics, Nav/Comm Equipment

Marine Environmental Mgmt., LLC

P.O. Box 686
Warrington, PA 18976
www.MarineEnvironmentalMgmt.Com
Stu Millen
tel: 215-491-0543
fax: 215-491-0566
email:Stu@MarineEnvironmentalMgmt.Com
Descr: Microbial based products for degradation of hydrocarbon based compounds; OWS-friendly technology; also manufacture a portable filtration unit for on-site filtration of systems such as bow thrusters, winches
Products: Oil Spill Response, Sanitation Device- Pollution Control, Waste Water Treatment

Marine Exchange of the West Gulf Inc.

111 East Loop North
Houston, TX 77029
www.txgulf.org
Alton Landry
tel: 713-678-7711
fax: 713-678-4839
email:alandry@txgulf.org
Descr: MAST - Marine Activity Planning System
Products: Direct Communication and Information Services for Vessel & Terminal Operators, Communications, Monitoring Systems, Security

Marine Interior Systems, LLC

PO Box 10490
Jefferson, LA 70181
www.marineinteriorsystems.com
Adam Rodgers
tel: 985-801-2202
fax: 985-875-9297
email:arodgers@marineinteriorsystems.com
Descr: Full service joiner contractor
Products: Air conditioning & Refrigeration, Insulation, Interiors

Marine Sonic Technology, Ltd

PO Box 730
White Marsh, VA 23183-0730
www.marinesonic.com
John C. De Mille
tel: 804-693-9602
email:jdemille@marinesonic.com
Descr: Manufacture of High Resolution Side Scan Sonar systems, Sea Scan™ PC
Products: Sea Scan PC, Side Scan Sonar, Electrical Equipment, Marine Equipment

Marine Technologies Inc

3437 9th Street
Baltimore, MD 21225
www.marinetechologiesinc.com
Pat Donovan
tel: 410-355-2000
fax: 410-355-0025
email:pdonovan@marinetechologiesinc.com
Descr: Diving & Marine Construction
Products: Marine Equipment, Salvage

Marine Transportation Consultants

P.O. Box 440700
Houston, TX 77244
www.tug-barge.com
Richard
tel: 281-556-9876
fax: 281-556-6789
email:marineconsultant@sbcglobal.net
Descr: Hotel and cruise ships for charter and sale
Products: Hotel, cruise, and car-passenger ships

Mariner, LLC

682 Thompson Rd.
Houma, LA 70363
www.marinershipyard.com
G. Stansbury
tel: 985-223-3395
email:info@marinershipyard.com
Descr: Shipbuilding, Marine Construction, Ship Repair
Products: Barges, Cargo vessels, Crewboats,

Tugboats, OSV, Jack-up barges, oilfield, Boatbuilder, Shipbuilding-Repairs, Maintenance, Drydocking, Shipyards

MarineSafety International, inc.

Marine Air Terminal, LaGuardia Airport
Flushing, NY 11371
www.marinesafety.com
CAPT Fred Bronaugh, USN (Ret.)
tel: 800-341-1353 or 401-849-0222
fax: 401-849-9264
email:Fred.Bronaugh@MarineSafety.com
Descr: Simulator Training & Research
Products: Consultants, Simulation Training, Training

Maritime Casino Systems

3106 Post Office Box 93092
Las Vegas, NV 89193
www.casinoclassifieds.com
Glenn Tredwell
tel: 702-273-6657
fax: 702-451-5865
email:maritime-casino@cox.net
Descr: Reconstructive systems, licensed public works
Products: Licensed public works contractor, CAD/CAM Systems, Computer/ Computer Software, Display Technology

Maritime Claims-Americas, Inc.

400 Poydras Street 30th Floor
New Orleans, LA 70130
www.maritime-claims.com
AntonioJ. Rodriguez
tel: 504-289-2123
fax: 985-781-8809
email:jrcruz@fr-law.com
Descr: Maritime Claims adjusting for P & I Clubs, insurance, owners and other clients
Products: Maritime Claim Services

Maritime Compliance International

10800 Clay Road, Suite 5207
Houston, TX 77041
www.maritimecomplianceinternational...
Kevin P. Gilheany
tel: 281-433-4782
fax: 504-367-3308
email:info@marcomint.com
Descr: Safety/security regulatory compliance consulting, audits, surveys and training.
Products: Marine surveying and regulatory compliance audits, Consultants, Training

Maritime Diesel Electric Inc.

10308 W McNab Road
Tamarac, FL 33321
Themis Giachos Sr. / Jorlia Soller
tel: 954-597-7602
fax: 954-597-7608
email:maritimediesel@aol.com
Descr: Marine Equipment Distributor and Manufacturer Representative
Products: Flowmeters, Marine Equipment, Ship Repair

Maritime Partner AS

Notenesgt. 1, P.O.Box 776 Sentrum
6001 Aalesund, Norway
www.maritime-partner.com
John Ivar Olsen
tel: +47 70 11 65 65
fax: +47 70 11 65 55
email:office@maritime-partner.com
Products: Fast Rescue Boats, Pilot Boats, Patrol Boats I.A.

Maritime Telecommunications Network

3044 N. Commerce Parkway
Miramar, FL 33025
www.mtnsat.com
Nancy Cornelius
tel: 954-538-4000
fax: 954-431-4077
email:mtn.info@mtnsat.com
Descr: Satellite communications providers
Products: Disaster recovery small VSAT equipment, transportable VSAT equipment, Communications, Satellite Communications

Maritime Training Services

1080 W. Ewing Place, Suite 301
Seattle, WA 98119
www.maritimetraining.com
Rick Tilcomb
tel: 206-467-8458
fax: 206-467-0128
email:info@maritimetraining.com
Descr: Producer / distributor of maritime training material
Products: Computer/ Computer Software, Software, Training

Mark A. Robicheaux Joiners, Inc.

P.O. Box 616
Berwick, LA 70342
www.robicheauxinc.com
Cary Laiche
tel: 985-395-2444
fax: 985-395-5129
email:cary@robicheauxinc.com
Descr: Marine Interiors
Products: Onshore Living Quarters, Consultants, Insulation, Interiors

Markey Machinery Co., Inc.

4634 E. Marginal Way S. Ste. C-140
Seattle, WA 98134
www.markeymachinery.com
Scott Kreis
tel: 206-622-4697
fax: 206-623-9834
email:markey@markeymachinery.com
Descr: Manufacturer
Products: Capstans, Winches & Fairleads, Windlasses (Anchors)

Martek Marine Ltd

Century Business Centre, Manvers Way,
Manvers
Rotherham, S63 5DA UK

www.martek-marine.com
Karen Bedford
tel: +44 (0) 1709 300160
fax: +44 (0) 1709 300165
email:resource@martek-marine.com
Descr: Marine safety and environmental monitoring systems.
Products: Engine emission monitoring systems, Fire & Safety Products, Monitoring Systems, Tank Leveling Indicators

Master Marine Electronics

281 Jilguero St., Montehiedra
San Juan, PR 00926
Charles J. Masters
tel: 787-731-6888
fax: 787-731-6889
email:mammar@coqui.net
Descr: Sales, service and installation of marine electronics
Products: Communications, Marine Electronics, Satellite Communications

Master Maritime LLC

PO Box 2207
North Bend, WA 98045
www.mastermaritime.com
Captain Dan Twhog
tel: 425-765-4965
email:dan@mastermaritime.com
Descr: Comprehensive Maritime Consulting
Products: Accident Investigations, Damage Surveys, Project Management, , Consultants, Navigation, Security

Mathew Marine Inc.

4001 Navigatio Blvd.
Huntington Beach, CA 92649
www.mathewmarine.com
Demetrios Halastaras
tel: 1-877-508-4004
fax: 713-227-2666
email:info@mathewmarine.com
Descr: HubZone Certified
Products: Doors- Marine & Industrial, Pipe Fittings/Cuttings/Connecting/ Systems, Ship Repair

Matthews Daniel Company

4544 Post Oak Place Ste 160
Houston, TX 77029
www.matdan.com
Warren Hilton
tel: 713-622-1633
fax: 713-622-1644
email:warrenhilton@matdan.com
Descr: Marine Warranty Surveyors and Consultants
Products: Marine Surveyors

Maximum Performance Hydraulics

1021 West Ewing Street
Seattle, WA 98119
www.pacwinch.com
Jeff or Al
tel: 206-352-6869
fax: 206-352-6750
email:sales@pacwinch.com
Descr: Winch, hosi, hydraulics
Products: Crane - Hoist - Derrick - Whirleys, Marine Equipment, Winches & Fairleads

May Ship Repair Contracting Corp.

3075 Richmond Terrace
Staten Island, NY 10303
Mohamed Adam
tel: 718-273-9700
fax: 718-273-7255
email:adam@mayship.com
Descr: Ship Construction and Ship Repair
Products: Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking, Shipyards

McAllister Towing

3165 Richmond Terrace
Staten Island, NY 10303
www.mcallistertowing.com
Steven Kress
tel: 718-273-6300
fax: 718-273-6325
email:NewYork@mcallistertowing.com
Descr: Marine Towing & Transportation

McKee Craft

404 Sandy Street
Falmouth, NC 28340
www.mckeecraft.com
Michael Hopkins
tel: 910-628-0926
fax: 910-628-1355
email:michael@mckeecraft.com
Descr: 100% Foam Filled Fiberglass Boats

Measutronics Corporation

4020 Kidron Road, Suite # 9
Lakeland, FL 33811
www.Measutronics.com
Lou Nash
tel: 863-644-8712
fax: 863-644-2679
email:Lou_Nash@Measutronics.com
Descr: Marine Positioning, Guidance, Tracking Systems
Products: Consultants, GPS, Nav/Comm Equipment

Mercury Marine

PO Box 1939
Fond du Lac, WI 54936
www.mercurymarine.com
Jeff Krueger
tel: 866-408-6372
fax: 920-924-1488
email:mmobgvsales@mermarine.com
Descr: Marine Propulsion Products

Merlin Marine Recovery Services LLC

4455 Murphy Canyon Road
San Diego, CA 92123
www.terracosta.com
Erik Rose

tel: 407-468-8841
fax: 407-540-9662
email:merlinmarine@cfi.rr.com
Descr: Marine Recovery and Liquidation Services
Products: Marine Recovery and Liquidation Services, Salvage, Shipbuilding-Repairs, Maintenance, Drydocking

Mermaid Marine Air

2651 Park Windsor Drive, Suite 203
Fort Myers, FL 33901
www.mmair.com
John Trotter
tel: 800-330-3553
fax: 239-418-0538
email:info@mmair.com
Descr: Marine air conditioning and refrigeration

Merrill Marine Services, Inc.

7909 Big Bend Blvd.
St. Louis, MO 63119
www.merrillmarine.com
Pete Merrill or Jim Pritchard
tel: 800-394-6674
fax: 800-230-5377
email:pete@merrillmarine.com or pritch@mer-rillmarine.com
email:dan@mastermaritime.com
Descr: Surveyors, Appraisers, Brokers and Consultants of Marine Equipment
Products: Surveying of marine equipment, Brokers, Consultants

Morrelli & Melvin Design and Engineering

4952 Waner Ave Ste 205
Huntington Beach, CA 92649
www.morrellimelvin.com
Pete Melvin
tel: 714-861-1320
fax: 714-840-0538
email:info@morrellimelvin.com
Descr: Multihull design and engineering
Products: Rig analysis, multihull velocity prediction (VPP), structures in composites/aluminum/wood epoxy, ship motion studies, 3D renderings/animation, weight analysis, CAD/CAM Systems, Consultants, Marine Engineering, Naval Architects, Marine Engineers

Motor-Services Hugo Stamp, Inc.

3190 SW 4th Avenue
Fort Lauderdale, FL 33315
www.mshs.com
Are Friesecke
tel: 954-763-3660
fax: 954-763-2872
email:are.friesecke@mshs.com
Descr: Motor-Services Hugo Stamp (MSHS) specializes in the overhaul, repair, maintenance and testing of diesel engines, turbochargers and filtration equipment. MSHS also offers the very latest in laser alignment and engine diagnostics.
Products: Diesel Engine- Spare Parts & Repair, Engines, Filters/Filter Systems

MTU/Detroit Diesel

13400 Outer Drive West
Detroit, MI 48239
www.MTU.com
Carroll Oates
tel: 313-592-5443 mobile: 954-494-8742
fax: 313-592-5137
email:carroll.oates@detroitdiesel.com
Descr: Manufacturer of Marine Propulsion Engines
Products: Diesel Engine- Spare Parts & Repair, Engines

Mystic Sea Charters

14785 Channel Drive
La Conner, WA 98257
www.mysticseacharters.com
Monte Hughes
tel: 1-800-308-9387
fax: 360-466-3042
email:mystic@ncia.com
Descr: Charter boat - passenger vessel-crew boat 100ft
Products: Aluminum Boats, Diesel Engine-Spare Parts & Repair, Oil Spill Response

NACE International

1440 South Creek
Portland, OR 97250
www.nace.org
Laura Bartlett
tel: 281-228-6268
fax: 281-228-6300
email:laura.bartlett@nace.org
Descr: NACE provides the latest in corrosion control technology to the marine industry through its training and certification course, technical standards, conferences, and publications.

National Maritime Exhaust, Inc.

3710-B 136th Street NE
Marysville, WA 98271
www.nationalmarineexhaust.com
Wendy
tel: 360-659-2983
fax: 360659-2733
email:scotte@nationalmarineexhaust.com
Descr: Custom stainless marine exhaust

Neches Drydocks

P.O. Box 20782
Beaumont, TX 77720
Chester Slay
tel: 409-962-6322
fax: 409-962-3300
email:nechesdrydocks@aol.com
Products: Salvage, Ship Repair, Shipyards

New England Charters LLC

4455 Murphy Canyon Road
Saco, ME 04072
http://home.maine.rr.com/newengland...
Capt Walt

tel: 207-831-6311
email:newenglandcharters@maine.rr.com
Descr: Moorings, Boat Sales, Charters, Hunting & Fishing
Products: Hazelett Marine Elastic Mooring System, , Aluminum Boats, Anchors & Chains, Fendering Systems/ Buoys - Dock & Vessel

New England Marine Electronics

46 Calf Pasture Beach Rd.
Norwalk, CT 06855
www.newenglandmarineelectronics.com...
Hugh Lupo
tel: 966-246-5439
fax: 203-857-0860
email:ne-me@excite.com
Descr: Sales, Service, Install, FCC/GMDSS/w radar, ABYC CERT. Marine Electrician, Communication Tech, Complete Electronics, Electrical Systems, AIS
Products: AIS equipment, , Communications, Marine Electronics, Satellite Communications

New England Pump & Valve, Inc

36 Industrial Park Road
Niantic, CT 06357
www.nepv.com
Odd A Brevik
tel: 860-739-2200
fax: 860-739-2270
email:nepv1@yahoo.com
Descr: Service and manufacturer of all types of marine & industrial equipment
Products: Pump and valve parts, shafts, mech. seals, bearings, Pump-Repair-Drives, Shafts, Stern Tube Bearings/ Bushes

Night Vision Technologies, Inc.

111 North Nursery Road
Irving, TX 75060
www.nvti-usa.com
Todd Moore
tel: 972-554-3944
fax: 972-554-3939
email:info@nvti-usa.com
Descr: NVTI manufactures Day/Night Vision systems including multiple camera technologies combined in the same pan/tilt housing.
Products: 1018i, 3000 Series, 4000 Series, Marine Electronics, Navigation, Security

NightWatch Industries

661 Maplewood Drive, Suite 19
Jupiter, FL 33458
www.night-watch.com
Norman Dahl
tel: 561-745-8722
fax: 561-745-8718
email:info@night-watch.com
Descr: Vessel monitoring and alarm systems
Products: Computerized monitoring and control systems, , Consultants, Control System-Monitoring/Steering, Tank Leveling Indicators

Noise Control Engineering

799 Middlesex Turnpike
Billerica, MA 01730
www.noise-control.com
Michael Bahitarian
tel: 978-670-5339
fax: 978-667-7047
email:mikeb@noise-control.com
Descr: Sound & Vibration Control for Marine Industry

Noordhoek Offshore B.V.

Industrieweg 23-29
Zierikzee, NL 4301 RS
Netherlands
www.noordhoek.net
Mr. Ceas Noordhoek
tel: +31 111 456 000
fax: +31 111 456 001
email:info@noordhoek.net
Descr: Underwater contractor
Products: Diving, ROV, Survey & Positioning, and Diving Support vessels, Marine Equipment, Salvage, Ship Repair

Nordic Ship Consultants Inc.

1323 SE 17th Street, #521, Ft. Lauderdale, FL 33316
Phone: 954-524-0025 • Fax: 954-524-0056
www.nordicship.com • E-mail: nsci@nordic-ship.com

Marine Consulting Company established in Florida in 1980 and operated by Merchant Mariners with extensive operational experience within the ocean-towing industry on World-wide basis with a long track-record. Activities include sales and purchasing of tugs, barges, offshore-AHTS-vessels G/C-vessels, ferries, cruise-ships, etc. Traffic- and project-analysis with management services for existing or start-up businesses. We manage donations of commercial vessels with max. tax-credit benefits for US Owners.

Nortech Engineering

15 Commerce Way Suite 1003
Norton, MA 02766
www.norteng.com
Dan Russell
tel: 508-285-7831
email:drussell@norteng.com
Descr: Manufacture rugged LCD displays and computers
Products: Computer/ Computer Software, Display Technology

North American Marine Jet Inc.

216 East Sevier St
Benton, AR 72018
www.marinejet.com
Jason T. Hill
tel: 501-778-6151
fax: 501-778-6381
email:jason@marinejet.com
Descr: Manufacture of Jet drive propulsion systems
Products: Propulsion Equipment, Pump-Repair-Drives

North Sea Resins

115 Research Drive
Bethlehem, PA 18015
www.northsearesins.com
Eric Eisenhut
tel: 610-419-4888
fax: 610-419-4889
email:sales@northsearesins.com
Descr: Pipe and Tank Repair Kits
Products: Pipe Fittings/Cuttings/Connecting/ Systems, Safety Products, Ship Repair

Northeast Technical Services Co., Inc

P.O. Box 38189
Olmsted Falls, OH 44138
Richard A. Mueller
tel: 440-236-9191
fax: 440-236-9188
email:rmueller@netechserv.com
Descr: Naval architecture/marine engineering
Products: Dock and mooring system designs, Consultants, Marine Engineering, Naval Architects, Marine Engineers

Northern Underwater Systems

53113 Range Road 211
Edmonton, AB T6S 1B5 Canada
www.nusgroup.com
Mark Jansen
tel: 1-780-406-5111
fax: 1-780-406-3437
email:mjansen@nusgroup.com
Descr: Dewatering and Marine services

Northstar Marine Services Inc

104 South Washington St
Iola, KS 66749
www.northstar-employment
John W. Davis III
tel: 620-365-8644
fax: 620-365-8284
email:Northstar.marine@excite.com
Descr: Recruiting
Products: Hiring Staff

NVT [noise vibration techniek]

150 North Plains Industrial Road
Wallingford, CT 06492
Steve Hadik
tel: 203-774-0295 • fax: 206-600-4431
email:info@yachtacoustics.com
Descr: Marine Propulsion and Acoustics- Noise Vibration Control
Products: Exhaust, Insulation, Propulsion Equipment

Ocean Data Technologies, Inc

153 Lovells Lane Suite C
Marlton Mills, MA 02648
Jon Wood
tel: 508-428-3540
fax: 508-428-3539
email:jwood@oceandata.tech.com
Descr: Ocean Wave, current, and tide measurement systems and services
Products: Consultants, Monitoring Systems

Ocean Innovations

7709 Prospect Place
La Jolla, CA 92037
www.o-vations.com
Brock Rosenthal
tel: 858-454-4044
fax: 858-454-5775
email:brock@o-vations.com
Products: ROVs, underwater video cameras, underwater lighting, underwater cables & connectors, GPS, Marine Electronics, Navigation

Ocean Pearl Trading Co.

3772 Harton Rd.
Va. Beach, VA 23452
www.oceanpearl.com
Ben Simmons
tel: 757-486-4241
fax: 757-486-1124
email:oceanpearl5@cox.net
Descr: Marine Construction Products
Products: Marine fenders, buoys, floating barrier, pile wrap, composite piles, Coatings/ Corrosion Control/ Paint, Corrosion Control, Fendering Systems/ Buoys - Dock & Vessel

Ocean Rescue Systems

P.O.Box 3423
Chula Vista, CA 91911
www.oceanrescue.com
Joe Mokry
tel: 207-799-3299
email:JMokry@oceanrescue.com
Descr: Training services for marine rescue, including rescue boat operations, rescue swimmer training and swiftwater rescue.

Ocean Research Company of America

1148 Third Avenue, Box #38
Chula Vista, CA 91911
www.get2drive.com
Capt. Alan Spears
tel: 619-227-1802
fax: 619-425-7368
email:mitingtu@yahoo.com
Descr: Tug Julius N. can operate in shoal waters performing a wide variety of tasks/operations. Easily transporter by SUV/trailer to inland sites.
Products: Tug Services

Ocean Services

4 Nickerson Street, Suite 301
Seattle, WA 98109
www.ocean-services.com
Jon Lucas
tel: 206-547-6161 ext 114
fax: 206-547-6010
email:jonl@stabbertmaritime.com
Descr: Maritime Management
Products: Three vessels in the Gulf, 160-250 ft, crewed up and ready to go, with cranes, A-frames, launches, and full hydrographic survey capability.

Office Automation, Inc.

6939 South Choctaw Drive
Baton Rouge, LA 70806
www.officeauto.com
Mark Trapen
tel: 225-923-1317
fax: 225-923-0167
email:mtrapen@officeauto.com
Descr: Labeling & Identification Products
Products: Fire & Safety Products, Safety Products

Offshore Marine Surveyors

1661 SW 23rd Ave
Ft Lauderdale, FL 33312
tel: 954-587-5879
fax: 954-587-5548
email:offshorems@bellsouth.net
Descr: Marine Surveyors
Products: Marine Surveyors

Omegadyne, Inc.

149 Stelzer Court
Sunbury, OH 43074
www.omegadyne.com
Dan Jackson
tel: 203-359-7749
fax: 203-359-7700
email:djackson@omega.com
Descr: Manufactures pressure transducers, load cells for process measurement & control
Products: marine pressure transducers

Omni Marine Services, Inc.

207 Chipman Road
Bethpage, TN 37022
www.omnimarineservice.com
William Gray
tel: 615-405-9360
fax: 615-841-3288
email:wgray@wgray.com
Descr: Salvage and Boat Lifting up to 70,000 lb. per lift
Products: Service: Recovery of Marine and other items located under-water; 70,000 lb lift; Marine Equipment, Salvage

Omnium Marine Services USA, Inc.

3800 Inverary Blvd Suite 101F
Lauderhill, FL 33319
www.omnium.gr
Andreas Vurdubakis
tel: 954-739-5353 Office 954 649-0264 Cell
fax: 954-739-5373
email:a.vurdubakis@omnium.gr
Descr: Marine Engine Parts and Equipment
Products: Ball Bearings, Pump Parts, Centrifuge Parts, Air conditioning & Refrigeration, Diesel Engine- Spare Parts & Repair, Filters/Filter Systems

Pacer Pumps

41 Industrial Circle
Lancaster, PA 17601
www.pacerpumps.com
Ron Hock
tel: 717-656-2161
fax: 717-656-0477
email:sales@pacerpumps.com
Descr: Manufacturer
Products: Filters/Filter Systems, Marine Equipment, Pump-Repair-Drives

Pacific Coast Marine Industries

6000 23rd Drive West
Everett, WA 98203
www.pcmii.com
Neil Hamlin
tel: 425-743-9550
fax: 425-348-3867
email:sales@pcmii.com
Descr: Manufacturer of ships windows, doors and hatches
Products: Doors, Hatches, Windows, Doors- Marine & Industrial, Marine Equipment, Windscreen & Window Wipers

Pacific Pipe and Pump, LLC

18760 Ridgfield Road NW
Shoreline, WA 98177
www.pacificpipeandpump.com
Nils Dragoy
tel: 206-255-3319
fax: 425-771-2946
email:nilsd@pacificpipeandpump.com
Descr: Specializing in compression style pipe systems. Geberit Mepla, Mapress SS and Copper-nickel
Products: Geberit Mepla pipe systems, Mapress Stainless Steel pipe and fittings, valves and PVC, Marine Equipment, Pipe Fittings/Cuttings/Connecting/ Systems, Ship Repair

Pacific Press Technologies

714 Walnut Street
Mt. Carmel, IL 62863
www.pacific-press.com
Bruce Pearson
tel: 800-851-3586
fax: 800-380-4322
email:bpearson@pacific-press.com
Descr: Manufacturer of presses, Shear, and specialty stamping and forming equipment
Products: Pressbrake, presses, shears, and specialty forming and stamping equipment.

Panel Specialists, Inc.

3115 Range Road
Temple, TX 76504
www.panelspec.com
John Hutchison
tel: 813-264-2656
fax: 813-264-2507
email:thermax@panelspec.com
Descr: Manufacturer of interior joiner materials
Products: Fire rated USCG Certified SOLAS, IMO, FTP code certified furniture, walls, and ceilings

Peck & Hale

180 Division Avenue
W. Sayville, NY 11796
www.peckhale.com
tel: 631-589-2510
fax: 631-589-2925
email:Sales@PeckHale.com
Descr: Cargo Securing & Lashing Equipment
Products: Cargo Securing & Lashing,

Peerless Marine Surveyors

250 Lincolnshire Drive
Halifax, NS B2T 1P7 Canada
www.peerless-marine.com
Captain Stuart J. McLea AMS
tel: 902-576-2297
fax: 902-576-2297
email:info@peerless-marine.com
Descr: Accredited Marine Surveyors & Marine Consultants
Products: Consultants, Naval Architects, Marine Engineers, Training

Phoenix International, Inc.

375 Hwy 182
Morgan City, LA 70380
www.phnx-international.com
Tom Bailey
tel: 985-399-0606 or 800-648-1457
fax: 985-399-0612 or 985-399-0604
email:tbailey@phnx-international.com
Descr: Worldwide Underwater Solutions-Diving, ROV, and ADS
Products: Diving, ROV, and ADS

Phoenix Products Company, Inc.

8711 West Port Avenue
Milwaukee, WI 53224
www.phoenixproducts.com
Cheri Martin
tel: 414-973-3320
fax: 414-973-3210
email:marketing@phoenixproducts.com
Descr: Lighting Fixtures



Orkot® Marine Bearings are offered as custom-engineered components (to Ø 2.2m) and as semi-finished tubes and plates with stocks worldwide.

Available in two material grades to perfectly match application requirements.

Classification society approvals
24 hour service (United States)



Visit our website at www.orkotmarine.us

North/South America Tel: +1(541)688-5529 Fax: +1(541)688-2079
Europe/Middle & Far East Tel: +44(0)1709 376044 Fax: +44(0)1709 374819

24 hr service (United States): 1-800-546-7568

Orkot® Marine Bearings

A unique synthetic composition and the incorporation of solid lubricants, ensures Orkot® Marine Bearings operate with an exceptionally low co-efficient of friction in seawater, grease, oil and even in dry running conditions.

- High load tolerance - for applications including crane mast bearings and cylinder rod-end bearings.
- Water lubricated - for rudder and propeller shaft bearings.
- Low friction - suited to hatch cover pads and stabilizer bearings.



Circle 272 on Reader Service Card

WHEN IT COMES TO
safety
THINK VIKING™

VIKING LIFE-SAVING EQUIPMENT (America) Inc.
1400 NW 159 St. · Suite 101
Miami · FL 33169 · U.S.A.
Tel: +1 (305) 614 5800 · Fax: +1 (305) 614 5810
e-mail: usasales@viking-life.com
www.viking-life.com

Circle 303 on Reader Service Card



BOSTON WHALER 25' GUARDIAN

SECURE THE PERIMETER.

Introducing Brunswick Commercial & Government Products, Inc. You knew us for years as the commercial and government division of Boston Whaler. Building the safest, longest-lasting, most dependable platforms for Law Enforcement / Security, Special Operations / Combat, Fire / Rescue and Workboat applications. We still do. But we've evolved substantially to meet the continually changing needs of our customers. Today, as a subsidiary of Brunswick Corporation, we're a standalone company with our own dedicated manufacturing facility for commercial Whalers. In addition, we're responsible for commercial applications for the entire Brunswick Boat Group – the world's leading powerboat manufacturer – providing access to a wide variety of hulls up to 100 feet in length. We offer models in mission-specific configurations, plus an extensive range of cost-effective, off-the-shelf options. And our complete custom capabilities can provide for specialized requirements. Contact us. Because more than ever, we're built for one specific mission: yours.



27' VIGILANT



28' INTRUDER



BUILT FOR THE MISSION.™

BRUNSWICK COMMERCIAL & GOVERNMENT PRODUCTS, INC.

386.423.2900 www.brunswickCGboats.com



Precision Propeller, Inc.

2427 N. Ritter Ave
Indianapolis, IN 46218
www.turbo-props.com
Steve McLelland
tel: 800-922-9955
fax: 317-549-6561
email:smcllelland@ppiprops.com
Descr: Stainless Steel Propeller Manufacturer
Products: Stainless steel propellers

Premier Materials

7401 Central Ave NE
Minneapolis, MN 55432
www.premiermaterials.com
John Rotter
tel: 763-785-1411
fax: 763-785-1509
email:john@premiermaterials.com
Descr: Floating dock components and solar navigation and hazard lighting
Products: 50 sizes of dock flotation, dock accessories, 1 - 4 nautical mile LED solar-powered navigation, hazard and dock lighting, Lighting Systems/ Equipment, Marine Equipment, Navigation

Prime Mover Controls Inc.

3600 Gilmore Way
Burnaby, BC V5G 4R8 Canada
www.pmc-controls.com
Michael Combs
tel: 604.433.4644
fax: 604.433.5570
email:info@pmc-controls.com
Descr: Manufacturers of: Marine Propulsion Controls, Integrated Machinery Alarm and Control Systems, Marine Instrumentation
Products: Control System-Monitoring/Steering, Monitoring Systems, Tank Leveling Indicators

Progressive Marine Service

PO Box 15826
Seattle, WA 98115-0826
www.progressivemarineservice.com
David M. Blakemore
tel: 206-524-6366
fax: 206-524-4544
email:dmbmore@foxiinternet.net
Descr: Maritime Employment
Products: Maritime Employment Service

ProStock Marine, Inc.

1072 NW 3rd Street
Hallandale, FL 33009
www.ProStockMarine.com
Whitney
tel: 954-457-5000
fax: 954-457-5086
email:whitney001@bellsouth.net
Descr: Manufacturer Of Inflatable Air-Bladders
Products: Fenders

Pro-Tect Plastic and Supply, Inc.

PO Box 1377
Jacksonville, OR 97530
www.pro-TECT.net
Sharri Griffin
tel: 541-774-5506
fax: 541-774-5508
email:pro-TECT@pro-TECT.net
Descr: Heat Shrink Films & Accessories for Packaging, Containers and Weatherization
Products: Transport and Storage and Containment Supplies

PTC Diesel Power

2822 Juniper Street
Fairfax, VA 22031
www.ptcpower.com
Mike Moxley
tel: 703-641-0400 EXT 204
fax: 703-641-0021
email:sales@ptcpower.com
Descr: Marine diesel engine parts
Products: Parts for marine diesel engines, KTA38, KTA19, NT855, 6BT,

Quality Power Products Ltd.

10036 Firetower Road
Pass Christian, MS 39571
Harrison
www.qppl.net
John McPherson
tel: 228-255-4999
fax: 228-255-4999
email:JOHNIM@QPPL.NET
Descr: MANUFACTURER OF POWER DISTRIBUTION EQUIPMENT

R & T Technologies, Inc.

44 South Minnequa Avenue
Canton, PA 17724
Rik Paulsen
tel: 570-524-0655
fax: 570-524-0427
email:rpaulsen@pdt.net
Descr: Precision machine shop
Products: Machined parts

R P S Company

5760 Elmburg RD
Bagdad, KY 40003
www.rpsbarge.com
Roger P Smits
tel: 859-221-4858
fax: 502-747-5510
email:roger@rpsbarge.com
Descr: Sectional barge builder
Products: Barge and dock builder

R.E. Perry Company, Inc.

9909 Clayton Road
Saint Louis, MO 63124
Russell Perry
tel: 314-569-2445
fax: 314-414-4004
email:russell@reperry.com
Descr: Industrial Real Estate and Secure Storage
Products: Secure distribution facilities and real estate

Radio Holland USA

8943 Gulf Freeway
Houston, TX 77017
www.radiohollandusa.com
Sales and/or Service
tel: 877-733-4024
fax: 877-738-2101
email:rhouston@radiohollandusa.com
Descr: Navigation, Communication & Automation Sales & Service
Products: Marine Electronics, Nav/Comm Equipment, Satellite Communications

RAMCO Manufacturing Co., Inc.

365 Carnegie Avenue, Kenilworth, NJ 07033
Phone: 908-245-4500
Fax: 908-245-3142
www.ramco-safetyshields.com
E-mail: info@ramco-safetyshields.com

Since the development of the first commercial safety shield for pipe connections in 1958 by RAMCO® Manufacturing Co., Inc., there has been worldwide acceptance of safety shields on piping systems to prevent personnel injury and equipment damage due to a chemical sprayout. The effectiveness of RAMCO® Safety Shields has been demonstrated in thousands of installations in industrial manufacturing plants, government facilities and on naval and commercial ships.

Rescue Tape / Harbor Products, Inc.

630 S Pacific Ave #112
San Pedro, CA 90731
www.rescuetape.com
Ron Cordas
tel: 877-847-2628
email:sales@harborproducts.com
Descr: Rescue Tape - Emergency & all-purpose self-fusing silicone tape; resists 700 PSI, 8,000 Volts, 500F Degrees; waterproof, corrosion resistant, chemical resistant; ideal for emergency hose repair, waterproofing electrical connections
Products: Emergency Hose & Pipe Repair, Corrosion Control, Insulation, Seals

RESON Inc.

100 Lopez Road
Goleta, CA 93117
www.reson.com
Kelly Nelson
tel: 805-964-6260
fax: 805-964-7537
email:sales@reson.com
Descr: Sonar and underwater acoustic solutions
Products: Sonar, Navigation, Salvage

Rice Propulsion

Av. Rios Espinoza # 88 Col. Benito Juarez Mazatlan, Sin 82180 Mexico
www.ricepropulsion.com
Leonardo Montoya
tel: 011 52 (669) 983 6552
fax: 011 52 (669) 984 2533
email:leonardom@ricepropulsion.com
Descr: Propellers, Nozzles and Rudders
Products: Propellers, Nozzles and Rudders,

Rigdon Marine

815 Walker Street, Suite 750
Houston, TX 77002
www.rigdonmarine.com
Billy Guice
tel: 713-236-9100
fax: 713-236-0200
email:sales@rigdonmarine.com
Descr: Offshore vessel services
Products: Offshore vessels

RKI Instruments, Inc.

33248 Central Ave.
Union City, CA 94587
www.rkiinstruments.com
Bob Pellissier
tel: 800-754-5165 x 21
fax: 510-441-5650
email:bob@rkiinstruments.com
Descr: Gas Detection Equipment. Portable and fixed.
Products: Gas detection products

Robicheaux Insulation Systems, Inc.

P.O. Box 9
Berwick, LA 70342
www.robicheauxinc.com
Cary Laiche
tel: 985-395-2444
fax: 985-395-5129
email:cary@robicheauxinc.com
Descr: Marine Interiors
Products: Industrial & Marine Insulation Systems

Rochem Division, Sepro Inc.

300 Manhattan Beach Blvd - Suite 4
Manhattan Beach, CA 90266
David LaMonica
tel: 310-406-1233
fax: 310-406-1373
email:drochem@aol.com
Descr: Rochem produces membrane systems for desalination and waste water treatment
Products: Desalination - Reverse Osmosis, Waste Water Treatment

Rocky Mountain Hydrostatics, Inc.

25400 E. 152nd Avenue
Brighton, CO 80603
www.rmhydro.com
Craig L. Wright
tel: 405-324-9246
fax: 405-350-4294
email:cwright@rmhydro.com
Descr: New & Remanufactured Denison Axial Piston Pumps and Motors
Products: Hydraulic Pumps & Motors, Open and Closed Loop, Deck Machinery- Cargo Handling Equipment, Steering Gears/ Steering Systems, Winches & Fairleads

RON Crane Scale Sales-USA

6185 Bayou Trail
Saugatuck, MI 49453
www.ron-crane-scales.com
Lou Ziolkowski
tel: 269-857-7935
fax: 269-857-1911
email:lou@roncranes.com
Descr: Crane Scales/Dynamometer/Overload detectors. Shackle or Hook Wireless, Removable from 1/4 ton up to 300 tons!
Products: Crane Scales & Dynamometers, Crane - Hoist - Derrick - Whirleys, Marine Equipment, Shipbuilding-Repairs, Maintenance, Drydocking

Ronson Technical Products Division

2146-B Flintstone Drive
Tcker, GA 30085
www.energyandprocess.com
Timothy Moravek
tel: 800-524-0698
fax: 770-621-9660
email:timothy.moravek@energyandprocess.com
Products: Steel plates, angles, beam, channel, flat bar, round bar, split tees, military specifications, ABS certified, Marine Equipment, Pipe Fittings/Cuttings/Connecting/ Systems, Ship Repair

Roper Resources Ltd

984 St. Patrick St.
Victoria, BC V8S 4X5 Canada
Chris Roper
tel: 805-798-0277
fax: 250-361-9115
email:Chris@RoperResources.com
Descr: Sales Outlet
Products: Sonar Systems Side Scan and Imaging, Marine Electronics, Marine Equipment

RTF Manufacturing Company, LLC

793 Route 66
Hudson, NJ 12534
www.RTFManufacturing.com
Thomas Finck
tel: 518-826-2180
fax: 518-828-2257
email:info@RTFMANUFACTURING.COM
Products: Air conditioning & Refrigeration, Galley Equipment

Russell Oilfield Equipment

1910 Humble Place Dr.
Humble, TX 77338
www.russelloilfield.com
William Russless
tel: 281.540.8982
fax: 281.540.8687
email:sales@russelloilfield.com
Descr: Marine clutches (propeller brake, main propulsion, trawling winch, auxiliary engine, generator, power take-off, pump)
Products: Marine Clutches

Ryan Marine Services, Inc.

7500 Harborside Drive
Galveston, TX 77554
www.ryanmarine.com
Stan Herrmann
tel: 832-524-5688
fax: 409-763-6513
email:stan@ryanmarine.com
Descr: Utility & Crewboat Chartering Company
Products: Utility & Crewboat Chartering, Aluminum Boats, Oil Spill Response

Safety Management Systems, LLC

2 Union Street, Suite 403
Portland, ME 04101
www.smsllc.com
William Mahoney
tel: 207-772-7900
fax: 207-772-0000
email:wmahoney@smsllc.com
Descr: Marine safety, security, operations and change management consultants.

SEA CON Brantner & Associates, Inc

1240 Vernon Way
El Cajon, CA 92020
www.seacon-usa.com
Brad Fisher
tel: 619-654-0007
fax: 619-374-7295
email:bfisher@seaconbrantner.com
Descr: Manufacturer of underwater Electric and Fiber Optic connectors
Products: Waterproof Connectors, Electric and Fiber Optic, Communications, Couplings, Electrical Equipment

Sea Recovery Marine Watermakers

P.O. Box 5288
Carson, CA 90745
www.searecovery.com
Audrey Paulus
tel: 310-637-3400
email:audrey@searecovery.com
Descr: Marine watermakers
Products: Seawater purification equipments, watermakers, Desalination - Reverse Osmosis, Marine Equipment, Water Purifiers

SeaArk Marine, Inc.

P.O. Box 210
Monticello, AR 71657
www.seaark.com
Ken McFalls, VP of Sales
tel: 870-367-9755
fax: 870-367-2120
email:sales@seaark.com
Descr: Boat Manufacturer
Products: Aluminum Boats, Boatbuilder

SeaBotix Inc.

1425 Russ Blvd., Suite T-112-D
San Diego, CA 92101
www.SeaBotix.com
Donald Rodocker
tel: 619-239-5959 ext. 111

fax: 619-239-5915
email:don@seabotix.com
Descr: Manufacturer of Underwater Robotics ROVs
Products: ROVs, Remote Operated Vehicles, Underwater Robotics

Seabulk Towing, Inc.

1305 Shoreline Drive
Tampa, FL 33605
SeabulkInternational.com
Richard C. Noble
tel: 813-248-1123
fax: 813-248-5735
email:richard.noble@sbulk.com
Descr: Tankships; harbor tugs; offshore tugs; supply; crewboats
Products: Service company -- towing & OSV; petroleum, & chemical transportation

Seacoat Technology, LLC

13426 Oak Hollow Dr.
Cypress, TX 77429
www.seacoat.com
John Bowlin
tel: 713-480-4397
fax: 281-469-0147
email:info@seacoat.com
Descr: Marine Coatings, Foul Release Siloxanes
Products: Antifouling, Coatings/ Corrosion Control/ Paint

SeaDeck, Inc.

PO BOX 46984
Seattle, WA 98146
C S Still
tel: 206-241-2136
fax: 206-243-7196
email:seadeck@comcast.net
Descr: Marine Deck Coverings
Products: Miscellaneous tools, Interiors, Marine Decking & Flooring

Seaye Marine Limited

Lower Quay Road,
Fareham., Hampshire PO16 0RQ UK
www.seaye.com
Chris Tarmey
tel: +44 1329 289000
fax: +44 1329 289001
email:rovs@seaye.com
Descr: ROV Manufacturer
Products: ROVs; Remotely Operated Vehicles:Robotics Underwater

Sealand Power Industries Inc

568 East Elizabeth Avenue, P O Box 1400
Linden, NJ 07036
www.sealandpower.com
Alan Wachstein
tel: 800-225-0004
fax: 908-486-1056
email:sales@sealandpower.com
Descr: Wholesale distributors of replacement engine parts, controls & cables, instruments, pumps and drive train equipment
Products: Control System-Monitoring/Steering, Propulsion Equipment, Steering Gears/ Steering Systems

SeaWave LLC

76 Hammarlund Way
Middletown, RI 02842
www.seawave.com
Tanya Falvo
tel: 800-746-6251
fax: 401-846-9012
email:sales@seawave.com
Descr: SeaWave, an FCC-licensed common carrier, brings wireless communications to ocean-going vessels, including voice and data, remote management products and other value-added services.
Products: SeaWave Integrator, SeaWave NavSeries, SeaWave Remote Management Services, SeaWave Billing, Communications, Monitoring Systems, Satellite Communications

Seaworth Systems, Inc.

22 Main Street
Centerbrook, CT 06409
www.SeaworthSystemsInc.com
Paul Belesca
tel: 860-767-9061
fax: 860-767-1263
email:pbelesca@seaworthsys.com
Descr: Marine engineering, naval architecture re, environmental engineering,engineered systems and products
Products: Diesel combustion analyzers/analysis, marine environmental engineering, Filters/Filter Systems, Naval Architects, Marine Engineers, Software

SELCO USA, Inc.

2508 Lakebrook COurt
Atlanta, GA 30360
www.selcousa.com
Anders Jakobsen
tel: 770-455-9110
fax: 770-457-3754
email:amj@selcousa.com
Descr: Fire Alarm Systems, Generator Controls, Monitoring and Protection
Products: Control System-Monitoring/Steering, Fire & Safety Products, Monitoring Systems

Sengineering, Inc

2300 29th Street
Bellingham, WA 98229-3380
www.sengineeringinc.com
Robert Petersen
tel: 360-715-1786
fax: 360-715-1786
email:info@sengineeringinc.com
Descr: Creators of Bilge-Vac and Petro-Vac Oil Pollution Prevention and Control Systems:

Separator Systems

13451 Conway Rd.
St. Louis, MO
www.skimoil.com

RJ Williams
tel: 314-579-9011
fax: 314-579-9202
email:info@skimoil.com
Descr: Design/manufacturer and distributor of marinel pollution control equipment and systems, specializing in wastewater treatment and waste minimization or recycling of liquid/solids oily wastes, and waste oils.
Products: Oil/Water Separators, Sanitation Device- Pollution Control, Waste Water Treatment

Severn Trent DeNora

1110 Industrial Blvd.
Sugarland, TX 77478
www.severntrendenora.com
Greg Gaffney
tel: 281-240-6770
fax: 281-240-6762
email:ggaffney@severntrendenora.com
Descr: Manufacturer of Marine Sanitation Devices and Ballast Water Treatment Equipment
Products: Ballast, Waste Water Treatment, Water Purifiers

Sewart Supply Inc.

1556 Destrehan Ave.
Harvey, LA 70058
www.sewartsupply.com
Ben Erdely
tel: 504-348-7777
fax: 504-348-2200
email:berdely@sewartsupply.com
Descr: Twin Disc Distributor/ Marine Gear sales & Service
Products: Twin Disc, Hamilton Water Jets, Ingersol Air Starters, Omega Thrusters (Bow/Stern), Marine Equipment, Propulsion Equipment

ShipCom LLC

7700 Rinla Avenue
Mobile, AL 36619
www.shipcom.com
Rene Stiegler
tel: 251-666-5110
fax: 251-666-8339
email:rene@shipcom.com
Descr: Maritime Public Coast Station VHF and HF Voice and data Ship to Shore Communications.

Signal International

601 Bayou Cassotte Parkway
Pascagoula, MS 39581
www.signalint.com
Rob Busby
tel: 281-899-2122
fax: 281-899-2125
email:rbusby@signalint.com
Descr: Signal International is a leading shipyard in the Gulf of Mexico - with six locations. SI specializes in quality repair, overhaul, fabrication and modernization of drilling rigs and associated vessels for the offshore industry.
Products: Shipbuilding-Repairs, Maintenance, Drydocking, Shipyards

Silvercrest ROVs

Unit 7
Nailsworth, GL 7L9
England
www.Silvercrestsubmarines.co.uk
Sales
tel: (+44) 1285 760620
email:Rovs@Silvercrestsubmarines.com
Descr: ROVs for sale and charter
Products: ROVs

Simco Coatings Inc.

211 Gunther Ln.
Belle Chasse, LA 70037
www.simcocoatings.com
A.J. Juneja
tel: 504-393-9455
fax: 504-433-1406
email:sales@simcocoatings.com
Descr: Manufacturer of Industrial, Marine, Mil-Spec, and Corps of Engrs. Spec Paints
Products: Antifouling, Ballast, Coatings/ Corrosion Control/ Paint

Simplex Americas LLC

79 Old Clinton Road
Flemington, NJ 08822
www.simplexamericas.com
Donald W. Vogler
tel: 908-237-9099
fax: 908-237-9503
email:info@simplexamericas.com
Descr: Simplex Stern Tube Seals,Sales and Service; Turbulo Oily Water Separators, Sales and Service
Products: Stern Tube Seals, Oil/Water Separators, Seals, Stern Tube Bearings/ Bushes

SimplexGrinnell

9585 Snowden River Parkway
Columbia, MD 21046
www.simplexgrinnell.com
Les Burns
tel: 443-896-1056
fax: 410-381-1450
email:burns@tycoint.com
Descr: Fire Protection Equipment, Installation and Service
Products: Fire & Safety Products, Safety Products

Simrad Inc.

16 Curry Court
Metairie, LA 70003
www.simradusa.com
Mark Schaferkotter
tel: 504-616-3627-cell
fax: 504-4615495
email:mark.schaferkotter@simrad.com or simradville@cox.net
Descr: Marine Electronic Manufacturer
Products: Regional Sales Office

SI-TEX Marine Electronics Inc.

11001 Roosevelt Blvd., Suite 800
St. Petersburg, FL 33716
www.si-TEX.com
Dave Church
tel: 727-576-5995
fax: 727-576-5547
email:davechurch@si-TEX.com
Descr: Complete line of marine electronics including depth sounders, fishfinders, electronic charting systems, radars, autopilots, GPS/WAAS/Loran receivers, AIS receivers, SSB receivers, direction finders, VHF/FM radios, and integrated systems
Products: Autopilot Systems, GPS, Marine Electronics

SkimOil Inc. / Separator Systems

13451 Conway Rd.
St. Louis, MO
www.skimoil.com
RJ Williams
tel: 314-579-9755
fax: 314-579-9202
email:geninfo@skimoil.com
Products: Oil/Water Separators, Sanitation Device- Pollution Control, Waste Water Treatment

Skymira LLC

167 Cherry St, #430
Milford, CT 06460
www.skymira.com
Bob Landsfield
tel: 866-521-0540
email:landsfield.r@skymira.com
Descr: Satellite & Cellular Communications
Products: Communications, Computer/ Computer Software, Satellite Communications

Smith Berger Marine, Inc.

7915 10th Ave. S.
Seattle, WA 98108
www.smithberger.com
Tom Phipps
tel: 206-764-4650
fax: 206-764-4653
email:sales@smithberger.com
Descr: Manufacturers of Mooring and Towing Systems
Products: Fairleads, Deck Sheaves, Towing Pins, Stern Rollers, Sharks Jaws, Deck Machinery- Cargo Handling Equipment, Marine Equipment, Winches & Fairleads

Sohre Turbomachinery Inc.

128 Main Street
Monson, MA 01057
www.sohreturbo.com
Tom Sohre
tel: 413-267-0590
email:sohre@sohreturbo.com
Descr: Shaft Grounding Brushes - Self Cleaning
Products: Brushes, Shaft Grounding and Earthing, Electrical Equipment, Monitoring Systems, Stern Tube Bearings/ Bushes

Solutions Group International

9663 Santa Monica Blvd. Suite 175
Beverly Hills, CA 90210
www.solutionsgroupinternational.com...
Mike Duffy - Director of Operations
tel: 877-844-8744
fax: 951-789-8424
email:sginternational@earthlink.net
Descr: Security, Explosive/Narcotics Detection K-9's, Threat Assessments, Investigations, Training
Products: Specialized Armor Car Service, Consultants, Security, Training

Southeast Floating Docks

2205 Dobbs Road
St.Augustine, FL 32086
www.sefloats.com
Jason Nail or David Grisham
tel: 904-825-3625
fax: 904-825-1556
email:info@sefloats.com
Descr: Floating Docks
Products: Concrete Floating Docks, Aluminum Truss Floating Docks, Marinas

Steimling & Son

7 Nickel Ave, PO Box 283
Sayreville, NJ 08872
www.steimling.com
Rich Norris
tel: 732-613-1550
fax: 732-390-3317
email:steimlingusa@hotmail.com
Descr: Machine shop
Products: Rudder Bearings & Bushes, Shafts, Stern Tube Bearings/ Bushes

Stewart Technology Associates

5619 Val Verde
Houston, TX 77057
www.stewart-usa.com
William (Bill) Stewart
tel: 713-789-8341
fax: 713-789-0314
email:info@stewart-usa.com
Descr: Engineering, Structural, Marine, Civil, Naval Architecture, Moorings, Piers, Piles, Wharfs.
Products: Engineering Safety, Anchors & Chains, Computer/ Computer Software, Naval Architects, Marine Engineers

Stratos

6901 Rockledge Drive, Suite 900
Bethesda, MD 20817
www.stratosglobal.com
tel: +1 709 748 4233
fax: +1 709 748 4300
email:info@stratosglobal.com
Descr: Provider of a wide range of advanced mobile and fixed-site remote communications solutions for users operating beyond the reach of traditional networks
Products: Inmarsat, Iridium, Globalstar, MSAT,

TUGS, WORKBOATS, HIGH SPEED CRAFT & FERRIES

- Global sales and deliveries
- Customer focused
- Technical reliability
- Short delivery times
- Ongoing product development
- Financing possibilities
- Wide range of marine services

A wide range of standard vessels is available such as seagoing tugs, harbour tugs, workboats and high-speed craft, including patrol and pilot boats and fast ferries.

In addition to the series built standard type of vessels, Damen is also active in the construction of specialized large workboats and patrol vessels, such as buoy laying vessels, offshore patrol vessels and other large seagoing workboats.



STANDARD OF EXCELLENCE

DAMEN

- ▲▲▲ DAMEN STAN PATROL 4207
- ▲▲ DAMEN ALU CAT 1605
- ▲ DAMEN SHOALBUSTER 2609

DAMEN SHIPYARDS GORINCHEM

Member of the DAMEN SHIPYARDS GROUP



Industrieterrein Avelingen West 20
4202 MS Gorinchem

P.O. Box 1
4200 AA Gorinchem
The Netherlands

phone +31 (0)183 63 95 46
fax +31 (0)183 63 77 62

americas@damen.nl
www.damen.nl

Circle 226 on Reader Service Card

VSAT, Communications, Nav/Comm Equipment, Software

Strongwell
400 Commonwealth Avenue
Bristol, VA 24201
www.strongwell.com
Dave Faulkner
tel: 276-645-8000
fax: 276-645-8132
email:webmaster@strongwell.com
Descr: Manufacturer
Products: Corrosion Control, Fire & Safety Products, Marine Decking & Flooring

Superior Energies, Inc.
P.O. Drawer 386
Groves, TX 77619
Tel: (409) 962-8549
Fax: (409) 962-4027
E-Mail: sei@insulationsei.com
Web: www.insulationsei.com

Superior Energies, incorporated in 1978, is a Veteran-Owned Manufacturer, with over 100 years combined experience in the engineering, fabrication, and installation of Insulation Blankets, Fire Blankets, Acoustical Curtains, Thermal Shields and the best Leak and Freeze Protection products available. SEI has manufactured covers for a number of different industries utilizing a variety of designs, specifications, and techniques.

Symphotic TII Corporation
880 Calle Plano Unit K
Camarillo, CA 93012
www.symphotic.com
Chris Roper
tel: 805-798-0277
fax: 805-484-9012
email:sales@symphotic.com
Descr: Manufacturer and distributor of underwater cameras and inspection equipment, sonars
Products: Sonar systems, side scan and imaging. Underwater camera systems.

Talleres Navales del Golfo, S.A. de C.V.
Islote San Juan de Ulua S/N
Veracruz, Ver 91800
Mexico
www.jraymcdermott.com/tng
Isaiaa Jimenez
tel: +52(229) 989 2535 / 989 2500
fax: +52(229) 989 2510
email:ijimenez@mcdermott.com
Descr: Ship repair, offshore modules fabrication and rigs conversion
Products: Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking, Shipyards

TD Collaborative
3R Green Street
Woburn, MA 01801
www.TDCollaborative.com
Hugh Wright
tel: 781-933-6116
fax: 781-933-6117
email:sales@tdcollaborative.com
Descr: Sensor Development and Manufacturing
Products: Fuel and lube viscosity measurement and control

Teak Marine Products USA LLC
1356 SE 17th Street
Fort Lauderdale, FL 33316
www.portroyalgroup.com
Phil Friedman
tel: 954-523-9770
fax: 954-523-8270
email:mail@portroyalgroup.com
Descr: Distributors and installers of prefabricated teak decking and flooring, and other marine wood products.
Products: Prefabricated teak decking and flooring; other marine wood products, Interiors, Marine Decking & Flooring

Teakdecking Systems, Inc.
7061 15th Street East
Sarasota, FL 334 243
www.teakdecking.com
Alan Brosilow
tel: 941-756-0600
fax: 941-756-0406
email:info.usa@teakdecking.com
Descr: Teakdecking & flooring
Products: Teakdecking and wooden flooring, Marine Decking & Flooring, Shipbuilding-Repairs, Maintenance, Drydocking

Tech Group Inc.
1007 Tile Drive
Red Wing, MN 55066
www.techgroupusa.com
Joel Wittenbraker
tel: 651-388-7117
fax: 651-388-0337
email:sales@techgroupusa.com
Descr: OnSite Specialists Machining and Heat Treating
Products: Portable Machine Tools and Services - Line Boring, Facing, Drilling, Milling --- Sales Rental & Service WORLDWIDE,
Pipe Fittings/Cuttings/Connecting/ Systems, Shipbuilding-Repairs, Maintenance, Drydocking

Techcrane Global Corporation
17639 Hard Hat Dr.
Covington, LA 70435
www.techcraneglobal.com
Maryam Shad
tel: 985-871-0056
fax: 985-871-0065
email:maryam.shad@techcraneglobal.com
Descr: Manufacture and Sales of Marine Cranes
Products: Crane - Hoist - Derrick - Whirlleys, Deck Machinery- Cargo Handling Equipment, Marine Equipment

Technical Marine Service, Inc.
6040 N. Cutter Circle, Suite 302
Portland, OR 97217-3956
tel: 503-285-8947
fax: 503-285-1379
www.tms-usa.com
sales@tms-usa.com
martin@tms-usa.com
Contact: Martin Wolf

Since 1987, TMS has provided automation, monitoring and control design engineering. TMS specializes in steamship boiler automation and combustion control. TMS manufactures tank level indicators for use with liquid drill mud, HFO, DFM and ballast.

Technology Associates, Inc
64 Magnolia Trace Dr
Harvey, LA 70058
www.NavalArchitects.us
Anil Raj
tel: 504-282-6166
fax: 504-282-6186
email:A.Raj@NavalArchitects.US
Descr: Naval Architecture, Marine Engineering, Mechanical Engineering
Products: Marine Engineering, Naval Architects, Marine Engineers

Tecnico Corporation
7611 Lake Road South, building 307
Mobile, AL 36605
www.tecnicoCorp.com
Mike Turner
tel: 251-443-9900
fax: 251-443-9050
email:mturner@tecnicoCorp.com
Descr: Provision of turnkey structural, mechanical, electrical, and jointer services
Products: Repair and fabrication - to SOLAS, ABS, USCG, etc. regulatory bodies (ISO 9001compliant). Services offered at site of choice. Interiors, Pipe Fittings/Cuttings/Connecting/ Systems, Ship Repair

Teledyne Hastings Instruments
PO Box 1436
Hampton, VA 23669
www.teledyne-hi.com
Will Harrison
tel: 757-723-6531 ext. 224
fax: 757-723-3925
email:fulmer@teledyne.com
Descr: Vacuum instrumentation and precision gas flow meters and controllers
Products: Process Instrumentation & Control

Texas Engineering Extension Service, TXA&MSYSTEM
8701 Teichman Rd
Galveston, TX 77551
www.tex.com/cmts
John H Giesen
tel: 409-740-4462
fax: 409-744-2890
email:john.giesen@teexmail.tamu.edu
Descr: Oil Spill Control School (Training/Assist)
Products: Oil Spill Response, Training

Tex-Shield, Inc.
2300 M Street NW, Suite 800
Washington, DC 20037
David Saunders
tel: 202-973-2858
fax: 202-973-2850
email:info@texshield.com
Descr: Tex-Shield is the exclusive U.S. licensee SARATOGA chemical warfare protective technology
Products: Personal Protective Clothing

The Cornell Group, Inc.
Fairfax, VA 22032
www.thecornellgroup.com
Pamy J.S. Arora
tel: 703-877-2080
fax: 703-877-2081
email:parora@thecornellgroup.com
Descr: Port and Transportation Strategy and Project Finance Advisors
Products: Infrastructure Finance, Consultants, Training

The Glosten Associates
1201 Western Avenue, Suite 200
Seattle, WA 98101
www.glosten.com
tel: 206-624-7850
fax: 206-682-9117
email:email@glosten.com
Descr: Naval architects, marine and ocean engineers
Products: Consultants, Marine Engineering, Naval Architects, Marine Engineers

The Hilliard Corporation
100 West 4th St
Elmira, NY 14902
www.hilliardcorp.com
Rob Doud
tel: 607-733-7121
fax: 607-737-1108
email:hilliard@hilliardcorp.com
Descr: Manufacturer of filtration equipment and media.
Products: Filters/Filter Systems, Oil/Water Separators, Waste Water Treatment

The Lightship Group, LLC
PO Box 1470, 606 Ten Rod Road
Wickford, RI 02852
www.lightshipgroup.com
George Sheppard
tel: 401-294-3341
fax: 401-294-3415
email:georges@lightshipgroup.com
Descr: Marine and Industrial Repair Service
Products: Welding & Fabrication, Marine Decking & Flooring, Marine Engineering, Ship Repair

The Sherwin Williams Company
101 Prospect Avenue N.W.
Cleveland, OH 44115
www.sherwinwilliams.com
Eric J. Bosanac
email:ejbosanac@sherwin.com
fax: 216-566-2775
Descr: Marine Paints and Coatings/Sundry Items
Products: Antifouling, Coatings/ Corrosion Control/ Paint, Marine Decking & Flooring

The Spencer Company - "Marine Insurance Solutions"
91 Park Terrace West
New York, NY 10034
www.jssusa.com
Jonathan Spencer
tel: 212-304-1560
fax: 212-202-3885
email:jss@mindspring.com
Descr: Marine insurance claims handling on behalf of Insurers and Insureds
Products: Insurance claims

Thermax-Fipro North America
3115 Range Road
Temple, TX 76504
www.thermaxmarine.com
John Hutchison
tel: 813-340-3940
fax: 813-264-2507
email:sales@thermaxmarine.com
Descr: Manufacturer
Products: USCG, SOLAS, IMO, FTP code certified jointer materials - walls, ceilings, furniture

Tidewater Marine, LLC
P.O. Box 1519
Morgan City, LA 70380
www.tdw.com
Alvin Arcemont
tel: 985-631-5820
fax: 985-631-5823
email:arcemont@tdw.com
Descr: Marine Transportation
Products: Marine Transport

Tidewater Skanska, Inc.
809 S. Military Hwy
Va. Beach, VA 23464
www.tidewaterskanska.com
Henry Strickland
tel: 757-547-2153
fax: 757-547-4806
email:sby@tidewaterskanska.com
Descr: Heavy Marine Construction
Products: Barges/Boats available on the West Coast

Tioga Air Heaters
9210 International Parkway
Minneapolis, MN 55428
www.tioga-inc.com
Bruce Wallace
tel: 763-525-4000
fax: 763-525-9796
email:bwallace@tioga-inc.com
Descr: Tioga Air heater manufacturers indirect-fired heating and ventilating equipment which are used for winterization of offshore drilling platforms and other marine applications
Products: Indirect-fired heating equipment to operate off of diesel, natural gas, or propane, Heat Exchangers, Ventilation Systems / Products

Todd Pacific Shipyards Corporation
PO Box 3806
Seattle, WA 98124
www.toddPacific.com
Dave Conklin
tel: 206-623-1635 ext 181
email:Dave.Conklin@toddPacific.com
Descr: Full service shipyard
Products: Mobilized repair crews to travel off-site for Katrina recovery, Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking, Shipyards

Trans Marine Propulsion Systems,
4200 24th Avenue West
Seattle, WA 98199
www.transmarine.org
Claus Winderlev
tel: 206-282 9142
fax: 206-282 6514
email:claus@transmarine.org
Descr: Diesel engine repair and maintenance company
Products: Diesel Engine- Spare Parts & Repair, Marine Engineering, Seals

Tranter PHE, Inc.
P.O. Box 2289
Wichita Falls, TX 76307
www.tranterphe.com
Gary "K" Kulesus
tel: (940) 723-7125 ext. 316
fax: (940-723-1131
email:gkulesus@tranterphe.com
Descr: Manufacturer of heat transfer equipment
Products: Product tanker cargo heaters , Air conditioning & Refrigeration, Heat Exchangers, Oil Spill Response

UE Systems, Inc.
14 Hayes Street
Elmsford, NY 10523
www.uesystems.com
Doug Waetjen
tel: 914-592-1220
fax: 914-347-2181
email:info@uesystems.com
Descr: Ultrasonic Instruments for Condition analysis and Leak Detection
Products: Inspection Instruments

Underwater Services International
4128 NW 47th Pl.
Gainesville, FL 32606

www.hullcleaning.com
Wendell Swilley
tel: 866-373-6301
fax: 352-373-5588
email:www.info@hullcleaning.com
Descr: Commercial diving
Products: Commercial diving, hull cleaning , cofferdams, Oil Spill Response, Ship Repair, Shipbuilding-Repairs, Maintenance, Drydocking

Unidynamics, Inc.
188 FM 3083
Conroe, TX 77301
www.unidynamics.com
Thomas LoDestro
tel: 936-525-2405
fax: 936-525-2421
email:tlodestro@unidynamics.com
Descr: Manufacturing & servicing of marine & offshore equipment.
Products: Crane - Hoist - Derrick - Whirlleys, Deck Machinery- Cargo Handling Equipment, Doors- Marine & Industrial

Universal Remediation Inc.
1405 Parkway View Drive
Pittsburgh, PA 15205
www.unireminc.com
David F. Higginbotham
tel: 412-788-2444
fax: 412-788-0111
email:davidh@unireminc.com
Descr: Manufacturer of bio-remediation enhancement products; products encapsulate hydrocarbon and floats it on top of the water where naturally occurring microbes that biodegrade petroleum hydrocarbons break down the contaminant into CO2 and water.
Products: Petroleum hydrocarbon remediation on soil or water

US Army Corps of Engineers
803 Front Street
Norfolk, VA 23510
www.nao.usace.army.mil/
Steven R. Baum
tel: 757-201-7072
fax: 757-201-7322
email:steven.r.baum@usace.army.mil
Descr: Civil Works throughout the US
Products: Naval Architects, Marine Engineers, Navigation, Shipbuilding-Repairs, Maintenance, Drydocking

VersaDock
3255 Fairfield Av S Suite B
St Petersburg, FL 33712
www.versadock.com
Teo Leonard
tel: 866-999-3625
fax: 772-673-7961
email:teo@versadock.com
Descr: Industrial Strength Modular Floating Work Platforms, Docks & Rapid Response Drive-On Docking Systems
Products: Docks, Fendering Systems/ Buoys - Dock & Vessel, Marine Equipment

Victaulic Company
4901 Kesslerville Road
Easton, PA 18040
www.victaulic.com
Jim Devine
tel: 261-787-4911
fax: 713-635-6772
email:jdevine@victaulic.com
Descr: Manufacturer of mechanical couplings, fittings and valves.
Products: Fire & Safety Products, Pipe Fittings/Cuttings/Connecting/ Systems, Waste Water Treatment

VideoRay LLC
580 Wall Street
Phoenixville, PA 19460
www.videoray.com
Tom Glebas
tel: 610-458-3000 ext. 207
fax: 610-458-3010
email:info@videoray.com
Descr: VideoRay makes submersible remotely controlled vehicles with cameras and other accessories
Products: Submersible ROV (Remotely Operated Vehicle) or Underwater Robot with Video and other Accessories, Monitoring Systems, Security

Viking Systems, Inc.
16300 Katy Freeway, Suite 175
Houston, TX 77094
www.viking-systems.net
Lars Henriksen
tel: 281-579-1888
fax: 281-579-1871
email:lars.henriksen@viking-systems.net
Descr: Naval Architects
Products: Naval Architecture and Marine Engineering Services on Floating Structures, Computer/ Computer Software, Marine Engineering, Naval Architects, Marine Engineers

W & O Supply Corporate Office
3485 Evergreen Avenue
Jacksonville, FL 32206
www.wosupply.com
Jack Guidry
tel: 800-962-9696
fax: 904-354-2529
email:jack.guidry@wosupply.com
Descr: Marine Supplier
Products: Pipes, valves, fittings, valve automata- tion, Couplings, Pipe Fittings/Cuttings/Connecting/ Systems, Ship Repair

Waller Marine, Inc
14410 W.Sylvanfield, Dr.
Houston, TX 77014
www.wallermarine.com
David B. Waller
tel: 281-444-9650
fax: 281-444-8055

email:dwaller@wallermarine.com
Descr: Marine Engineers & Contractors
Products: Power Generation Barges, Electrical Equipment, Marine Engineering, Naval Architects, Marine Engineers

Wärtsilä North America Inc.
16630 Air Center Blvd
Houston, TX 77032
www.wartsila.com
Liviu Nitu
tel: 281-233-6200
fax: 281-233-6233
email:liviu.nitu@wartsila.com
Descr: Ship Repair and Equipment Service Company
Products: Marine Equipment, Propulsion Equipment, Ship Repair

Washington Chain & Supply Inc`
P O Box 3645
Seattle, WA 98124
www.wachain.com
Craig Clarey
tel: 206-623-8500 (800-851-3429)
fax: 206-621-9834
email:craig@wachain.com
Descr: Marine & Contractors Supplies for lifting, towing and tying down.
Products: Anchors & Chains, Capstans, Rope-Manila-Nylon-Hawsers-Fibers

Watch Enterprises - VesselWatch
4330 Fish Hatchery Road
Grants Pass, OR 97527
www.vesselwatch.com
Jack Goldwasser
tel: 541-472-8095
fax: 541-472-8095
email:jack@vesselwatch.com
Descr: Marine Telemetry - Onboard and Remote Monitoring & Control Sys
Products: Control System-Monitoring/Steering, Corrosion Control, Security

Weber Marine, Inc.
10148 Louisiana Hwy 44
Convent, LA 70723
www.webermarine.com
Bob Wooten
tel: 225-562-3547
fax: 225-562-7355
email:bwooten@webermarine.com
Descr: Marine Contractor
Products: Private terminal.. Crane service: Barge to truck / Truck to barge. Marine towing & Crewboats, Aluminum Boats, Anchors & Chains, Deck Machinery- Cargo Handling Equipment

Wema USA, Inc.
15 NE 3rd Street
Fort Lauderdale, FL 33301
www.wemausa.com
Dieter E. Marker
tel: 954-463-1075
fax: 954-463-1270
email:info@wemausa.com
Descr: Manufacturer and distributor of marine type fuel, water and holding tank level sensors and gauges
Products: Marine type fuel, water, and holding tank level sensors, and gauges

Wesstech Inc
205 SW 16th Court
Fort Lauderdale, FL 33315
www.wesstech.com
Alan Provan
tel: 954-522-2872
fax: 954-522-7146
email:info@wesstech.com
Descr: Products and Support Services
Products: Environmentally Friendly Chemicals, Air conditioning & Refrigeration, Engines

West Shore International
39 Clifton Avenue
Marblehead, MA 01945
William F. O'Meara
tel: 617-306-3310
fax: 781-631-0876
email:WFOmeara@comcast.net
Descr: Importer of all types of chain and anchors; cast steel bollards, chocks and cleats; shackles, thimbles and turnbuckles; blocks, wire rope and wire rope clippers.
Products: Anchors & Chains, Fendering Systems/ Buoys - Dock & Vessel, Marine Equipment

Wet Welding
PO Box 1529
NY, NY 10116
www.lenandersen.com
Len Andersen
tel: 8004284801
email:weld@spemail.org
Descr: Underwater welding and other work Organization.
Products: Underwater welding services products and expertise

Wheelabrator Group
1219 Corporate Drive, Burlington,
Ontario L7L 5V5
Fax Number: 800-571-5637
Contact: Rick Roth
Contact email:
info@wheelabratorgroup.com
www.wheelabratorgroup.com

Supported by an extensive after market service of maintenance, renovation and consumables, the Wheelabrator Group is the world-leading designer and manufacturer of wheel-blast, airblast and peening equipment. Whatever your surface preparation requirements are, the Wheelabrator Group will deliver the right solution for you.

Whiting Custom Laminated Panels
113 Cedar Street

Akron, NY 14001
www.whitingdoor.com
Chuck Oakes
tel: 716-542-5427
fax: 716-542-5947
email:chuckoakes@whitingdoor.com
Descr: Lightweight panels, bulkheads, joiner doors, decking, partitions
Products: Lightweight panels, bulkheads, joiner doors, decking, partitions, false decks, flooring, wet space panels

Woods Hole Group, Inc.
81 Technology Park Drive
East Falmouth, MA 02536
www.whgrp.com
Bill Grafton
tel: 508-495-6253
fax: 508-540-1001
email:wdrgrafton@whgrp.com
Descr: Provides coastal and oceanographic consulting, measurement, and laboratory services, including numerical modeling, real-time measurement system design and operation, engineering design studies, and environmental impact assessments.
Products: Physical oceanographic real-time measurement systems, Consultants, Marine Engineering, Monitoring Systems

Wooster Hydrostatics Inc.
4570 West Old Lincoln Way
Wooster, Ohio 44691
www.woosterhydrostatics.com
Carl Robinson
tel: 800-800-6971
fax: 330-263-4463
email:sales@woosterhydrostatics.com
Descr: Hydraulic Pumps and Motors
Products: Hydraulic pumps and motors, Marine Equipment, Steering Gears/ Steering Systems, Windlasses (Anchors)

Workskiff, Inc.
880 North Hill Blvd
Burlington, WA 98233
www.workskiff.com
Leslie Smith
tel: 360-707-5622
fax: 360-757-0892
email:info@workskiff.com
Descr: Boat Manufacturer
Products: 16 to 27ft unsinkable Aluminum Boats for Severe Service, Aluminum Boats, Boatbuilder

World Communication Center (WCC)
1347 N Alma School Rd , Suite 150
Chandler, AZ 85224
www.wccp.com
Kristen Le
tel: 800-211-2575
fax: 480-857-6898
email:wccinfo@wccp.com
Descr: Provider of global satellite solutions, including Iridium telephones and pagers for lease/purchase, data capabilities, satellite broadband and service.
Products: Communications, GPS, Satellite Communications

World Wide Metric - Gulf Region
2103 E. Governors Circle
Houston, TX 77092
www.worldwidemetric.com
Maria Soler
tel: 713-682-2400
fax: 713-682-2481
email:sales@worldwidemetric.com
Descr: JIS/DIN/ANSI Valves & Flanges, Hydraulic Fittings & Tubing, and Pipe Couplings
Products: Valves, Flanges, couplings, Expansion Joints, Marine Equipment, Pipe Fittings/Cuttings/Connecting/ Systems

Xantic USA, Inc.
1211 Connecticut Avenue, NW
Washington, DC 20036
www.xantic.net
Andrea Cortese
tel: +202 785-5615
fax: +202 785-5616
email:andre.cortese@xantic.net
Descr: Satellite Communication Service Provider
Products: Communications, Satellite Communications, Software

ZF Marine Electronics
12125 Harbour Reach Drive
Mukilteo, WA 98275
Jim Meucci
tel: 800-546-5455
fax: 425-493-1569
email:jim.meucci@zf.com
Descr: Control Systems Manufacturer

ZF Marine, LLC
161 James Drive West, Ste. 120
St. Rose, LA 70087
www.zfmarine.com
Marc Kloor
tel: 504-443-0501
fax: 504-443-0504
email:marcus.kloor@zf.com
Descr: Worldwide manufacturer of marine transmissions, surface drives, propellers, controls and propulsion systems

This Directory is the result of an e-mail survey conducted in October 2005. Publisher is not responsible for errors or omissions.

Southern Hospitality in the Bronx



SUNY Maritime's Dr. **Richard Burke** & UNO Dr. **Bahadir Inozu**

Dr. **Bahadir "Baha" Inozu** looks like your typical, distinguished college professor: introspective, intelligent and congenial. Except for the fact that he bought a new suit out of dire need, he arrived at SUNY Maritime College last month with only three days of survival supplies—the most he could gather, as he evacuated from New Orleans during Hurricane Katrina.

Dr. Inozu heads the University of New Orleans (UNO)'s School of Naval Architecture and Marine Engineering, but, because of Katrina, is a visiting professor at Maritime. He describes the waterfront campus as "a quiet and friendly place," and the support he receives from Dr. **Richard Burke**, Chairman of Maritime's Department of Engineering and other faculty "helps make the unknown less difficult."

Dr. Inozu's journey to Maritime first began by way of a flight to Houston, then to stay with friends in Goshen, Indiana. "Once the flooding took place, it became shockingly apparent that it would be awhile until I could return." Dr. Inozu, still disheartened by the damage to his condo complex, especially "the irreplaceable and beautiful bayou trees," is grateful to be alive and knows of countless other painful losses of life, property and upheaval among his fellow Louisianans.

Inozu found his way to friends in New York and solicited the aid of Dr. Bulent Yener, associate professor, Department of Computer Science at Rensselaer Polytechnic Institute (RPI). Dr. Yener and his team helped Inozu set up an emergency website for UNO's Naval Architecture students at the Computer Science Department of RPI, so that they could get in contact with him.

Many UNO faculty members lost everything, while Inozu fortunately had his laptop with him. With the generosity of RPI's servers and resources, he began immediately to communicate

online in an effort to find his displaced students. UNO set up a "war room" at Louisiana State University's Baton Rouge campus, employing a web site,

phone bank, laptops and cell phones in a furious bid to keep UNO alive. About one-third of UNO's Lakefront campus was damaged by Katrina. UNO officials

hope to offer a mini-session of classes by December. UNO is offering about 80 percent of its courses online. About 800 displaced students showed up for a rally

Reliable power with superb control

Power: 2 x 6 000 kW
Torque: 1 750 kNm
Availability: 99.98%

For successful operation even in extreme conditions, you rely on a skilled crew and solid technology. When you can depend on them, missions are accomplished as required, on schedule.

An offshore support vessel is a large-scale investment. That is why it must be reliable and operationally dependable, and it must repay the investment as forecast. And that is why it must also cope with any conditions.

Azipod propulsion means maximum operational reliability for offshore support vessels. It provides superb powered control, even in conditions where other offshore support vessels steer a course for a sheltering harbour.

Over one million hours of Azipod operation with record on-hire time and unsurpassed proven reliability.

www.abb.com/marine

Circle 200 on Reader Service Card

and informational meeting at the Baton Rouge campus about two weeks ago, and according to school officials, about 9,000 of UNO's 17,300 enrolled students have made contact with staff members.

The Maritime College, like the University of New Orleans, is one of a handful of institutions that offers degrees in Naval Architecture and Marine Engineering. Having met Inozu at professional meetings, Burke contacted him by email and offered assistance.

Inozu spends on the average, about three to four hours a day advising his UNO students by phone or email about their individual problems. Some of his students are in Galveston, Texas, Ann Arbor, Mich., and Boston, Mass. UNO Society of Naval Architects and Marine Engineers (SNAME) student section president, Lauren Daly is at Texas A&M at Galveston using email/phone to make sure she is taking the right courses that can be transferred to UNO. She is also

arranging the seniors' visit to SNAME's Annual Convention in Houston October 19, a good opportunity to meet prospective employers. SNAME waived conference fees for UNO students.

Inozu has been at UNO for 15 years. A native of Istanbul, Turkey, he graduated with a Bachelor of Science in Mechanical Engineering from Istanbul Technical University (ITU). He completed his Masters and his Ph.D. in Naval Architecture and Marine Engineering at the University of Michigan. He became fascinated with the unreliability and maintenance of marine machinery when he was an intern on board a ship, so accepting a UNO faculty position within its School of Naval Architecture and Marine Engineering was a natural progression for work that he loves.

Interestingly, SUNY Maritime is in partnership with ITU with a dual diploma program. About 18 Turkish students are on board and another 30 are expect-

ed to arrive in January. Dr. Inozu is interacting with the Turkish cadets during his stay here, and is also an active participant in Maritime's faculty brown bag luncheons.

In addition to helping Baha find a place of refuge at Maritime, Dr. **Richard Burke** also recognized an immediate academic synergy between them. Both are disciples of reliability research and a management philosophy called Lean Six Sigma. Dr. Inozu recently completed a paper, "New Horizons for Shipbuilding Process Improvement." Inozu serves as chief executive officer for a company, Novaces LLC, that trains corporations how to trim the excess from their operations. For example, Northrop Grumman Ship Systems cut costs by \$32 million in 2004 alone by implementing Lean Six Sigma methodologies.

Burke relays that "Baha's passion for ship building and love of research, coupled with his expertise in Lean Six

Sigma helps stimulate ideas. We are honored and grateful to have him aboard. Because of this new relationship, Maritime and UNO are exploring ways to collaborate on research and other cooperative projects."

The oldest and largest maritime school in the country, SUNY Maritime College prepares students for careers in the maritime industry, government, military, and private industry. Maritime graduates experience a 100 % placement rate and are often employed in careers of their choice within three months of graduation.

A four-year college located at historic Fort Schuyler in Throggs Neck, New York, SUNY Maritime offers undergraduate degree programs in Engineering, Business Administration/Marine Transportation, Marine Environmental Science, Humanities, International Transportation and Trade, and a Master's degree in International Transportation Management.



H. O. Bostrom Co.
Waukesha, WI U.S.A.
Made in USA Since 1946

www.hobostrom.com
fax 262-542-3784
tel 262-542-0222

Proven Performance & Comfort

Provides ship owners and captains the confident choice for SeaPost for all their ships helm & operations seating

Luxurious comfort and adjustment features provide ergonomic support and position for alert operations

Modular constructed high strength steel frames with advanced phosphate-e-coat-baked-powder-coat finish tough enough to take on all salt corrosion challenges and meet the durability testing of 1000 hour salt spray tests plus our full five year performance warranty Specify SeaPost for your next requirement.

SeaPost
Torsion
Shock Isolating
Suspension



SeaPost
Helm

Circle 242 on Reader Service Card

HYDRAULIC TOW PIN UNITS

Cable Hold-Down Blocks and Stern Rollers



*The Toughest Cable Tamer Ever Created!
Often Copied, Never Equaled*

WESTERN MACHINE WORKS

1870 Harbour Road, North Vancouver, B.C. Canada V7H 1A1
Phone: (604) 929-7901 or 929-2365 Fax: (604) 929-7951
Email: wmw@alliedship.com Website: www.alliedship.com

Circle 208 on Reader Service Card

STRONGER REPAIRS FASTER, EASIER

Unique epoxy resin system bonds to almost anything—produces proven, long lasting repairs with outstanding impact strength, tensile strength, and abrasion resistance.

- Repairs everything from pinholes and ruptures to complete breaks in pipes, pumps, ducts, tanks, valves, flanges, joints, and machinery casings, including equipment carrying water, low-pressure steam, gases, gasoline, oil, alcohol, and caustics
- Bonds tenaciously to most surfaces including steel, plastic, fiberglass composites, ceramic and wood



CORDOBOND
HIGH STRENGTH
EPOXY REPAIR SYSTEM



STANDARD RESIN for small holes/cracks (large holes/cracks with reinforcement)

RED PUTTY for medium to large holes, cracks and other defects

STEEL PUTTY for steel-like repairs on metal—can be drilled, tapped, machined

SEALER for small holes and cracks

LEVELING COMPOUND for corroded surfaces

UNDERWATER PUTTY for repairs in dry, moist, or submerged conditions

For detailed literature contact:
Ferro Corporation
Liquid Coatings and Dispersions Division
1301 N. Flora St., Plymouth, IN 46563
Tel: 574-935-5131 • Fax: 574-935-5278



Circle 239 on Reader Service Card



Washburn Doughty
Established by Architects & Engineers

**Shipbuilders
Architects
Marine Engineers**



Build your next boat at the yard known for uncompromised quality and reliability

For more info, please contact:
Bruce Doughty, President
P.O. Box 296, Enterprise Street,
East Boothbay, Maine 04544
Phone: (207) 633-6517 Fax: (207) 633-7007
www.washburndoughty.com

Circle 306 on Reader Service Card

62

Gulf Coast Resources Guide

Maritime Reporter & Engineering News

Grapple Helps Out in Storm's Wake



Navy rescue and salvage ship USS Grapple (ARS 53) returned to its homeport of Naval Amphibious Base Little Creek on October 5, returning from the Gulf of Mexico in support of Hurricane Katrina relief efforts. Grapple, along with Naval Sea Systems Command (NAVSEA) and the U.S. Army Corps of Engineers set up a salvage priority to clear area ports and restore oil platforms. According to Grapple Commanding Officer **Lt. Cmdr. Kevin M. Brand**, the ship was en route the day after Hurricane Katrina hit the Gulf Coast, ready to lend assistance.

"We basically restored all of the Mobile (Alabama) ports," Brand said. "We went into the Mobile River and opened up the entire ship channel all the way down. After that, we went to Louisiana to re-moor oil platforms."

After evading Hurricane Rita, the ship went to work in and recovered sonar equipment that became entangled during helicopter operations in the Gulf.

"We are relatively self-sufficient," said Brand, "We have everything we need on board. We have all the divers, we have our own chamber in the event that divers need to decompress. If something happens, they just send us there."

(By Journalist 3rd Class John Michael Cokos, Fleet Public Affairs Center Atlantic)

Chevron Invests in 'Blind Faith'

Chevron is proceeding with the development of the Blind Faith Field in the deepwater Gulf of Mexico. The field will be developed using a semisubmersible production facility, with first production expected during the first half of 2008. Chevron is the operator and holds a 62.5 percent working interest.

Blind Faith is located in approximately 7,000 ft. of water, about 160 miles southeast of New Orleans, on Mississippi Canyon blocks 695 and 696. The discovery well was drilled in June 2001 and encountered more than 200 ft.

of net pay in Miocene sands at depths of 20,900 ft. to 24,300 ft. A successful appraisal well was drilled in 2004. The field has an estimated gross resource potential exceeding 100 million barrels of oil-equivalent.

Ray Wilcox, Chevron's North America Exploration and Production Company president, said "This project is a key asset in our deepwater portfolio and is expected to provide significant new oil and gas resources in the Gulf of

Mexico." Total capital costs for the project will be approximately \$900 million. Chevron's partner in the Blind Faith project is Kerr-McGee Corp., which holds a 37.5 percent interest.

Initial production is expected to be



RENK INSIDE.



Double marine gears for the largest cruise ferry worldwide called "Color Fantasy"

- Vehicle Transmissions
- Industrial Gears
- Marine Gears
- Slide Bearings
- Couplings
- Test Systems

> **Marine Gears from RENK** are universally acknowledged as a hallmark of maritime drive engineering. They have proved their value for decades when extraordinary technical requirements had to be met. This experience and expertise is reflected by prominent features as: extreme performance, maximum speed (up to 60 knots), low weight, running smoothness and unshakeable reliability that you need on the high seas.



RENK Aktiengesellschaft
Gögginger Straße 73
86159 Augsburg, Germany
Tel. +49 821/57 00-627
Fax +49 821/57 00-559
marine.augsburg@renk.biz
www.renk.biz

RENK Aktiengesellschaft
Rheine plant
Rodder Damm 170
48432 Rheine, Germany
Tel. +49 59 71/790-317
Fax +49 59 71/790-208
info.rheine@renk.biz

**RENK, a member
of MAN group**

Circle 283 on Reader Service Card

approximately 30,000 barrels of oil per day (b/d) and 30 million cu. ft. of gas per day (mmcf/d). The semisubmersible facility will have a production capacity of approximately 45,000 b/d and 45

mmcf/d. The topsides can be upgraded to a capacity of 60,000 b/d and 150 mmcf/d to accommodate production from satellite discoveries or third-party tiebacks.

Aker Kvaerner, Inc. was awarded the semisubmersible hull and mooring system contract for the Blind Faith project, a contract valued at approximately \$120 million. Aker Kvaerner's scope of work

includes engineering, procurement, construction and transportation.

This development will use Aker Kvaerner's Deep Draft Semisubmersible (DDS) concept which has been conceived specifically for the application of steel catenary risers in the ultra-deepwater and current-heavy Gulf of Mexico environment. The DDS represents an evolution of the strong Aker Kvaerner semisubmersible lineage.

The Blind Faith semisubmersible will be delivered using several Aker Kvaerner entities such as Aker Kvaerner, Inc., Aker Kvaerner Verdal, Aker Kvaerner Engineering & Technology and Aker Marine Contractors.

Northrop Grumman Impact: \$1 Billion

Northrop Grumman Corporation reported that its facilities incurred significant damage and its operations have been impacted as a result of Hurricane's Katrina and Rita. The company's Ships segment includes its operations at Newport News, Va., and its Ship Systems shipyards on the Gulf Coast. Only the Gulf Coast shipyards were impacted by the hurricanes. Production work has resumed on the 11 ships under construction at its operations in New Orleans, La., Pascagoula, Miss. and Gulfport, Miss., and approximately 12,500 of its 19,800 employees are back to work at these shipyards. "Although we experienced significant damage and disruption from the hurricanes, our team has already made solid progress in restoring the yards and resuming production," said **Ronald D. Sugar**, chairman, CEO and president.

The company's Ship Systems facilities incurred significant damage from Hurricane Katrina, with lesser damage reported at several smaller operations in the area. Damage from Hurricane Rita was minor. A preliminary property damage assessment has been completed, and the company currently estimates that the cost to replace and repair its property, plant and equipment will be approximately \$1 billion. The company currently estimates that the net book value of the damaged property, plus the cost of clean-up and recovery, is less than \$500 million. In addition to work delays, the company will also incur additional costs under its current Ship Systems contracts due to hurricane related delay and disruption of work under those contracts. The cost growth is expected to reduce earned margin on these contracts.

RhinoMarine

teaching Rhino to swim



complete 3D design & modeling software for the marine industry

hull design & fairing
expand curved plates
complete 3d modeling
hydrostatics & stability
photorealistic rendering
speed/power calculations

information and free evaluation software at:
www.rhinomarine3d.com

Anteon Corporation
PROTEUS ENGINEERING DIVISION

345 Pier One Road, Suite 200
Stevensville, MD 21166
tel (410) 643-7496
fax (410) 643-7535

Circle 280 on Reader Service Card

DEANSTEEL



B-Class Door A-Class Window A-Class Stainless Steel Door

Fire Rated Products:

- IMO Doors & Frames
- IMO Windows
- USCG Doors & Frames
- Standard & Custom Berths
- Lockers & Misc. Marine Furniture

USCG & Transport Canada Certificates available!



111 Merchants St. • San Antonio, TX • 78204 • 800-825-8271
www.deansteelmarine.com or e-mail: sales@deansteel.com

Circle 227 on Reader Service Card



SMITH BERGER MARINE, INC.
OFFERS A COMPLETE LINE OF

SHARK JAWS



SAFE - RELIABLE - ECONOMICAL

Smith Berger Marine, Inc. builds a full range of Shark Jaws for Anchor Handling Tug Supply vessels. Standard ratings are 100, 200, 350, 500 and 750 metric tons and all units have Quick Release at the rated load. Smith Berger flexibility allows us to customize our equipment to suit the operating characteristics of your vessel. Third party certification, load tests, release tests and load monitoring systems are available options.

Rely on the 100 year history of Smith Berger to outfit your vessel with our rugged and dependable equipment.

SHARK JAWS • TOWING PINS • STERN ROLLERS

Smith Berger Marine, Inc. 7915 10th Ave., S., Seattle, WA 98108 USA
Tel. 206.764.4650 • Toll Free 888.726.1688 • Fax 206.764.4653
E-mail: sales@smithberger.com • Web: www.smithberger.com

Circle 294 on Reader Service Card

**Now more than ever,
Skookum signifies value in
today's cost-conscious world.**



You've known us for quality rigging products since 1890. Our comprehensive block, fairlead, sheave and alloy forging lines have met the challenges of the most demanding applications around the world. And in the process, we've proudly taken part in the shaping of American history; from salvage operations at Pearl Harbor and construction of the Grand Coulee Dam to San Francisco's BART and the space shuttle.

Whatever your applications, we're committed to serving you with the finest in standard and custom engineered products. For further information contact your nearest dealer or call us at:

503/651-3175
Skookum
PO Box 280, Hubbard, OR 97032
FAX 503/651-3409



SINCE 1890

SKOOKUM®

Blocks & Rigging
AN ULVEN COMPANY

1-800-547-8211 • www.skookumco.com

Circle 293 on Reader Service Card

Simplex-Compact® Seals

Made (only) in Germany

Sales, Spares & Service in North America
Simplex Americas LLC (only)

(908) 237 9099 info@simplexamericas.com



Circle 292 on Reader Service Card

Grants, Interest Free Loans from SCI

The Seamen's Church Institute of New York & New Jersey (SCI) is helping inland and deep-sea mariners affected by Hurricane Katrina. SCI chaplains in the Gulf Region and the Port of New York & New Jersey are on-site providing counseling and pastoral care, and the Institute is making grants and interest-free loans through SCI's Mariners' Assistance Fund. SCI has long provided financial assistance to mariners and vessel crews during times of critical need. In addition, SCI's Ministry on the River team is serving as a clearinghouse of information for mariners and maritime companies whose communications have been affected by the hurricane. In the wake of this disaster, SCI is working to increase the funding available through its Mariners' Assistance Fund to assist these mariners and many others who will need help in the weeks and months



Captain **Bill Boyce** of the Horizon Producer and a resident of New Orleans (middle) with SCI chaplain, the Rev. **Bruce Woodcock** (left) and **Rivelino dos Santos**, SCI chaplain intern from Brazil (right) on Sept. 2. (Photo credit: SCI)

ahead. The grants may help them rebuild their homes or feed their families. Donations can be made by calling 212-349-9090 or online at www.seamenschurch.org. Inland mariners contact Ann Mills at 800-708-1998, amills@seamenschurch.org.

Deep-sea mariners contact Deborah G. Blanchard at 212-349-9090, csr@seamenschurch.org.

ESAB Aids Katrina Victims

ESAB Welding & Cutting Products is helping victims of Hurricane Katrina. ESAB immediately sent a \$25,000 donation to the American Red Cross and transported bottled water to the region. ESAB senior management is currently in the region to develop a long-term plan to help with the rebuilding efforts. Throughout North America, ESAB employees are collecting supplies and donating money. Additionally, ESAB is matching employee donations and holding a fundraiser. Many ESAB customers and employees were in the path of the storm and sustained major damage to their homes and businesses. ESAB dispatched 4,500 gallons of bottled water to the Mississippi region from its plant in Hanover, Pa. ESAB distributor Nordan-Smith provided the means and support to get the water to the hardest hit areas.

Jeff Hoffart, Senior Vice-President of Equipment, Cutting Systems and Steel Industry Products, said "I was scheduled to be in Germany, but this is too important. I really need to go there personally to see how ESAB can help. It is critical to get the right equipment there and get it there fast. The only way to do this is by assessing the needs in the hardest hit areas first hand."]

After the initial needs assessment, ESAB will partner with distributor network in the region to help in the rebuilding effort. ESAB employees are donating money and needed supplies at all the ESAB facilities in North America. ESAB is also matching employee donations dollar for dollar. "We have many loyal customers in the devastated area that have counted on us for years. They are in desperate need," said **Andy Blanchard**, President and CEO of ESAB, North America. "Our customers can count on us."

SNAME Membership

Interested in what SNAME membership can do for YOU?



the maritime industry?

Interested? Visit www.sname.org and discover how SNAME membership can benefit YOU!

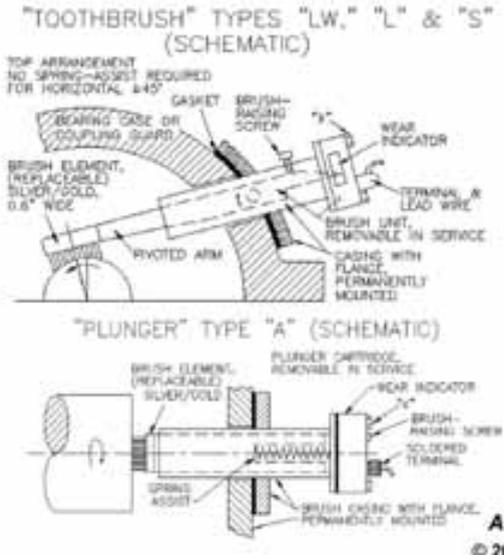
CONTACT US

www.SNAME.org

Circle 296 on Reader Service Card

Are Stray Electrical Currents Destroying Your Machinery?

- Sohre SHAFT GROUNDING (EARTHING) BRUSHES are used on propeller shafts, turbines, generators, electric motors, gears, pumps, etc. Failure to properly ground (earth) rotating shafts can result in expensive damage to seals, bearings, and other critical components.
- Self Cleaning. Operate dry or with oil. Gold/silver composite bristles.
- Working parts are removable during operation without contacting adjacent moving parts.
- Brush internals are insulated from casing.
- Provision to raise brush from shaft during operation and to inactivate if contact is not desired.
- Brush is suitable for transmission of instrument signals from the rotor without the need of special slip rings.
- Voltage and current monitors available.
- Little or no maintenance.



ABS TYPE APPROVAL B-568026
© 2005 SOHRE TURBOMACHINERY® INC.

SOHRE TURBOMACHINERY® INC.
WARE, MASSACHUSETTS, USA 01082
TEL: (413) 967-6908 FAX: (413) 967-5846
TSOHRE@SOHRETURBO.COM WWW.SOHRETURBO.COM

Circle 297 on Reader Service Card

PureVent Helps to Keep Emissions Clean

Alfa Laval earlier this year debuted PureVent, an air separator developed in cooperation with Wärtsilä, which cleans

the gas vented from the engine crankcase. Alfa Laval's latest innovation is PureVent, a disc-stack air separator for use in marine and power plant applications. Developed in cooperation with

Wärtsilä, it is designed to further reduce engine emissions by removing oil and particles from crankcase gas.

The crankcase compartment is located between the cylinders and the oil sump



Alfa Laval's latest innovation is PureVent.

and houses the engine crankshaft. The gas that collects there is an inevitable by-product of all internal combustion engines.

Crankcase gas comprises blow-by gases and soot from the engine's combustion chamber which mix with oil mist from the lubricating oil. If this gas were allowed to build up in the crankcase compartment, it would result in considerable pressure and cause seals and gaskets to leak. For this reason, it must be properly vented from the engine.

The gas represents an environmental concern. Whereas exhaust gas from the engine is typically well dispersed before it settles, crankcase gas is much less diluted and may create local areas of high oil concentration. The oil mist can soil a ship's decks and nearby surroundings, as well as forming a sticky or slippery layer in areas near the ventilation outlet.

"Crankcase gas is an important issue, especially for those working with and around diesel engines," said **Peter Carlberg**, General Manager of Alfa Laval Marine and Diesel. "We see cleaning it as an important step in further reducing engine emissions."

Despite successes with land vehicles, there has not been a good high-capacity cleaning solution for crankcase gas in large marine and power plant applications.

Engine builders have evaluated the different technologies for some time, but weaknesses in efficiency and reliability, as well as excessive costs, have kept them from being widely implemented. Wärtsilä has invested a great deal of time into evaluating the performance of filter solutions in particular.

Per Löfholm, Senior development engineer, Plant technologies, Power Plant technology at Wärtsilä explains the difficulty of finding an acceptable balance. "As a leading engine supplier,

Don't Get Burned.

RISE Firesafe & Watertight Cable and Pipe Penetration Seals

RISE doesn't just stop fire cold, it also cuts installation time dramatically so you won't get burned financially. The RISE cable and pipe penetration sealing system is virtually impenetrable to fire, smoke, gas and water. For a copy of the groundbreaking booklet "Everything You Should Know About Cable and Pipe Transits to Ensure a Safe Vessel" or for more information, contact W&O Supply.

W&O The Right Fit.
1-800-962-9696
www.wosupply.com

Approved by ABS, USCG, Lloyd's Register, DNV, TC and NAVSEA.

Piping • Valves • Fittings • Valve Automation • Metrics • Metals

Circle 224 on Reader Service Card

COASTAL MARINE EQUIPMENT, INC.

MANUFACTURERS OF MARINE DECK MACHINERY

Offering a complete line of deck machinery as well as general fabrication, machining services, installation, maintenance and repair services.

Model 1W24323-13-00 Anchor Windlass for 2-7/16" Stud Link Anchor Chain

Model C30-20-83-11 Hydraulic 24" Capstan

Model 1M24-125A3-1-00 Mooring Winch for 1-1/4" Wire Rope

Model 1M88-175S3-12-23 Push Wire Winch for 1 3/4" Diameter Wire Rope

ENGINEERED AND DESIGNED TO FIT YOUR CUSTOM REQUIREMENTS

20995 Coastal Parkway Gulfport, MS 39503-9517
Phone (228) 832-7655 Fax (228) 832-7675
Email: sales@coastalmarineequipment.com
www.coastalmarineequipment.com

Circle 222 on Reader Service Card

When so much relies on your steering, don't compromise. Choose Jastram!

Setting the standard in marine steering excellence

Jastram ENGINEERING LTD.

467 Mountain Highway
North Vancouver, B.C.
Canada V7J 2L3
Tel: (604) 986-0714
Fax: (604) 986-0334
e-mail: marketing@jastram.com
www.jastram.com

Complete marine steering systems for all types of boats and ships

Circle 252 on Reader Service Card

SEI SUPERIOR ENERGIES INC.

Insulation Specialists - Thermal - Acoustical - Fireproofing

SEI manufactures covers for the offshore and marine industries

Introducing "Fire-Temp"® Covers for fuel valves and actuators

Let us take care of all your insulation and fire-proofing needs
We accept Mastercard, Visa and Amex

WANT SUPERIOR QUALITY
WANT SUPERIOR SERVICE
CALL SUPERIOR ENERGIES, INC

1-800-BUY-SEI-1

P.O. Drawer 386, Groves TX 77619
Telephone: (409) 962-8549 Fax: (409) 962-4027
Website: www.insulationsei.com

Circle 299 on Reader Service Card

we have explored many options and found that existing solutions typically do not live up to what they promise," he said. "Pressure drop and the clogging of traditional filters, for example, can lead to difficulties with crankcase pressure level, stability and control."

PureVent, which has been developed by Alfa Laval and tested by Wärtsilä, represents a new approach to crankcase gas cleaning in high-capacity situations. Developed specifically for marine and power plant applications, it uses centrifugal separation to remove oil mist and other particles.

As Carlberg explains, centrifugal separation offers great advantages over filters and other cleaning techniques. "Centrifugal separation achieves a cleaning level filters cannot hope to match, and they do so without the oily waste associated with filter systems."

From an engine builder's perspective, PureVent is advantageous, as the compact separator has a size of just 30 l for any size of engine, and it weighs less than filter alternatives. Recovered oil can even be recirculated and used for engine lubrication.

PureVent uses high-speed centrifugation to clean oil, soot and unburned fuel from crankcase gas. The principle is similar to that of Alfa Laval's Alfdex, which has been used since 2002 to clean crankcase gas in trucks and buses on land.

PureVent consists of a disc stack made from a special composite material, which is enclosed in an aluminium housing. Connected to this is an electric motor that drives the disc stack.

Uncleaned crankcase gas enters at the bottom of the separator, then it passes into the disc stack. Centrifugal force presses the oil and soot out between the discs, allowing it to collect on the inside of the disc stack housing. This leaves virtually oil-free air, which can be released into the atmosphere.

For greater environmental benefit, the collected oil can be recirculated through the separator and used again as engine lubrication. Alternatively, it can be drained off for use in the incinerator or stored and sent for deposit.

In a diesel installation or a standard gas-engine installation, the cleaned air is released from PureVent into the atmosphere. However, in a gas engine it is also possible to route PureVent's output into the engine's turbocharger. Such a closed system enhances and safeguards engine performance, since it eliminates the risk of turbocharger fouling or oil accumulation in the intercooler. Most importantly, a closed crankcase ventilation system eliminates all emissions of crankcase gas.

Circle 15 on Reader Service Card

SeaProtect from Westfalia

Westfalia Separator offers separating solutions to deal with recent laws and directives emanating from the International Maritime Organization (IMO) to protect the ecosystem in the oceans. The new BilgeMaster,



SludgeMaster and CombiMaster systems from Westfalia are designed to secure the oceans' sensitive ecosystems effectively and also provide protection for the value of the ship owner's

investment. The main features of the systems are: high separating efficiency, continuous unmanned operation, combined with service friendliness, and reduced disposal costs. The systems meet the prevailing statutory regulations of the IMO with a residual oil content substantially lower than 15 ppm. With an additional facility, the BilgeMaster can achieve a residual oil content of even less than 5 ppm.

BilgeMaster: Performance up to 6000 l/h

The BilgeMaster system is designed for ships that use high-density residual fuel oils. The system is supplied and installed as a self-contained Centripack unit incorporating all auxiliaries necessary for operation. The four available performance classes (BilgeMaster 200, 1500, 3000 and 6000) operate in capacity ranges of 200 to 6,000 l/h. The centrifuge used in the BilgeMaster operates with the HydroStop system

See us at Maritime China 6-9 Dec. Norwegian Pavilion - Block 1E21

Pneumatic fenders

Stromme is sole distributor of Pneumatic Fenders in a wide range of sizes

Pneumatic Fenders with **ISO 17357 certification** in various sizes. Competitive prices and short delivery times. Delivered with or without tyre and net for protection.

Features:

- Higher energy absorption with lower reaction force
- Performance adjustable by varying initial pressure
- Suitable for areas with large and small tides
- Optional chain net & tyres for heavy duty applications
- Low maintenance
- Various accessories

Head office:
Tel. + 47 67 52 60 60
stromme@stromme.com

NME office:
Tel. + 47 53 47 95 00

NORWEGIAN - a part of the Stromme Group

Branch offices: United Kingdom, The Netherlands, Germany, Poland, France, Spain, Singapore and USA.

STROMME
On line - powered

www.stromme.com

Circle 269 on Reader Service Card

THE SEA SWITCH TWO

Smart Electronic Level Switch with No Moving Parts

The Sea Switch Two was designed and patented for all tank applications. The Sea Switch Two offers a reliable solution for liquid level detection and control for cargo, ballast, and storage tanks, without any moving parts.

The Sea Switch Two uses a fully static system that is based on the propagation of an acoustic wave into a metallic rod. A piezo-electric sensing element produces a wave along the rod. As the liquid reaches the sensing element the oscillation stops and the alarm is activated.

The Sea Switch Two sensor detects high, high-high, or low level in any liquid with an alarm output given by a dry contact or current loop change 6-18 mA.

- Easy installation
- Self-test built-in
- Fully static system - no moving parts

Call today for more information!

EMS
ELECTRONIC MARINE SYSTEMS, INC.
800 Ferndale Place
Rahway, NJ 07065

732.382.4344
732.388.5111 fax
emsmarcon@aol.com e-mail
<http://www.emsmarcon.com>

Circle 231 on Reader Service Card

which is designed to permit controlled desludging of the solids-holding space with high solids contents. A SoftStream feed system is engineered to ensure gentle treatment of the inflowing bilgewater so that the fractions are not excessively

mixed before separation. Given normal feed conditions for the bilgewater, (e.g. a solid content of less than 0.1 %, a chloride content of less than 30,000 ppm and pH 6 to 9, as well as no excessive oil emulsions in the water phase) the

remaining oil content in the pure water discharge is between 10 and 12 ppm. By varying the pump capacity, it is possible for the oil content to be reduced even further, even without an absorption filter.

SludgeMaster

Sludge is also produced onboard every ship. In the past, this sludge was incinerated on board or disposed of on land: a costly. The SludgeMaster 300 incorporates a specially developed separator which enables the volume of sludge to be reduced by up to 90 percent. In addition, valuable fuel oil is recovered which can be used together with recovered lubricating oil for combustion in the diesel engine or for steam generation in the boiler. The SludgeMaster operates with a capacity of 300 l sludge/hr.

CombiMaster: Bilgewater and Sludge Processing

Westfalia Separator offers a combined processes of bilgewater and sludge processing in a single step: The CombiMaster system. This CombiMaster system has been designed for use in rough conditions on the high seas. For bilgewater treatment the capacity is between 2,000 and 6,000 l/hr. If the CombiMaster is used for sludge processing, only the regulating ring has to be replaced. In the case of sludge concentration, the capacity of the CombiMaster is 500 to 1,000 l/hr. The CombiMaster system combines oil/water separation from bilgewater with sludge processing, fuel oil recovery and solids concentration.

Circle 16 on Reader Service Card

Peel Strip Remove



An improved method for removing paint, rust, adhesives & coatings from concrete. Aurand tools literally "peel" any accumulation from any hard surface. Here is the power of sandblasting in a compact, hand-held tool that can be used wherever a hard surface needs to be prepped prior to painting, refinishing or coating. Available in several widths, and in gasoline, pneumatic and electric models.

TAKE IT OFF, TAKE IT ALL OFF

Since 1937



1210 Ellis Street
Cincinnati, Ohio 45223-1843
(513) 541-7200 • FAX (513) 541-3065
Email: sales@aurand.net • web: www.aurand.net • (800) 860-2872

Circle 215 on Reader Service Card

SIMPLE. RUGGED. RELIABLE.

KIENE Cylinder Pressure Indicators for measuring diesel engine firing pressures...



- Easy to use - simple and reliable
- Reduce maintenance costs.
- Improve engine availability.
- Use to balance cylinders.
- Pinpoint engine Problems.
- Optimize fuel consumption.
- Fits any standard indicator valve.
- Recommended and used by major engine builders
- Minimal investment to monitor engine condition.

Contact us now for more information.

KIENE

Phone: 1-800-264-5950
Fax: 630-543-5953
www.kienediesel.com
E-mail: info@kienediesel.com

DIESEL ACCESSORIES, INC.

Circle 256 on Reader Service Card



MARINE SWITCHBOARDS & CONTROL SYSTEMS

for

- Work Boats
- Luxury Yachts
- Sportfishing Boats
- Commercial Vessels
- Research Vessels
- Military Vessels
- Gaming Vessels

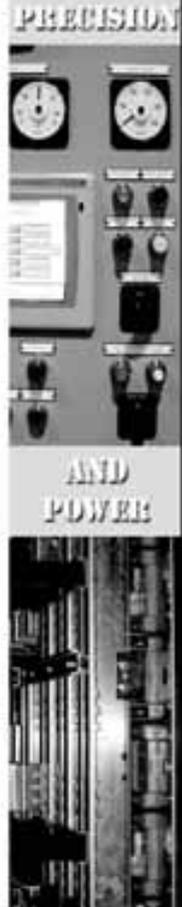
INDUSTRIAL POWER SYSTEMS, INC.

Marine Division
3010 Powers Ave #16
Jacksonville FL 32207
(904) 731-8844
marine@ipsjax.com
www.ipsswitchgear.com

Designers and Manufacturers of Quality
Electrical Controls and Switchgear

ABS • ABYC • BV • DNV • IEE
Lloyds • MCA • UL • USCG

American Quality and Craftsmanship Since 1981



Circle 249 on Reader Service Card



MARINE GLASS— FOR SAFETY AND SECURITY ON THE SEAS

MARINE GLASS offers exceptional safety and security in passenger vessels, work boats, and military applications. Bonded with tough high performance interlayers, Marine Glass laminates can be designed to provide effective ballistics, bomb and blast protection, as well as security and storm protection. This toughened, high performance glass is available in flat or bent configurations and resists moisture, water vapor, chemical attack, and UV. Clear or tinted glass is available.



ProCurve
GLASS TECHNOLOGY, LLC

ProCurve Glass Technology, LLC
3535 Davisville Road
Hatboro, PA 19040 U.S.A.
215-441-9101 Fax 215-441-9190
e-mail: procurveglass@nni.com
www.procurveglass.com

Circle 279 on Reader Service Card

GS-Hydro Withstands Hurricanes

GS-Hydro played a vital role when oil production platform operators in the Gulf of Mexico braced against the most severe hurricane season in decades. The GS-Piping is extensively used on the Spar-type Floating Production Platforms (FPSO's) found in the Gulf of Mexico. These Spar-type platforms have been able to continue oil production under the severest weather conditions due in part to the GS-Piping System.

GS-Hydro's hydraulic piping for the "Constitution" -FPSO Mooring Winches (Chain Jacks) is the tenth consecutive delivery to Technip Offshore Finland Oy in Pori, Finland. Previous deliveries include chain jack hydraulic piping for platforms Oryx, Genesis, Diana, Nansen, Boonvang, Horn Mountain, Gunnision, Mad Dog and Holstein.

Because the platform is floating, a large, hydraulic-based anchor system is needed to keep the platform in its intended location. GS-Hydro has delivered the non-welded, hydraulic piping system to all Spar-type platforms delivered by Technip Offshore Finland Oy. GS-Hydro's total piping delivery

includes engineering - covering the layout design, design of supports, stress analysis as well as necessary documentation including documentation required by the classification agencies - piping materials and components, prefabrication, installation, start-up and commissioning.

Circle 17 on Reader Service Card

FTE Series Float and Thermostatic Steam Traps



Nicholson Steam Traps offers the FTE Series, high capacity, float and thermostatic steam traps in sizes 0.5 to 2-in., for pressures from 5 to 464 PSI and temperatures to 850°F.

The FTE Series Float and Thermostatic Steam Traps are available with cast iron, ductile iron or cast steel bodies and offer the following features: stainless steel thermostatic element which eliminates air binding; below condensate level seat design to prevent steam leakage; discharge capacity up to 31,000 gallons of condensate per hour; stainless steel float and lever mechanism for improved performance and prolonged steam trap service life; in-line reparability and resistance to water hammer and corrosion.

Circle 18 on Reader Service Card

New Direct-to-Metal Lining for Potable Water Pipes



Chemline Inc. announced its latest spray-applied coatings specifically engineered for lining potable water tank and pipe applications. The new 100 percent solids, (Zero VOC) fast cure coating, Chemthane

4200PW, can be applied in a single coat directly to a prepared steel, iron or concrete substrate. No primers are necessary. Chemthane 4200PW contains no solvents, so that there will be no taste or odor from solvents transferred into the water. Chemthane 4200PW also features a fast "cure-to-the-touch" time of 6-8 minutes.

Circle 19 on Reader Service Card

Digitally Actuated Control Valve Series

Spence Engineering Company, Inc., of Walden, NY, announces its DigiBoss Cage Guided Control Valve with digital electronic actuator. The DigiBoss is designed for modulating control and on/off light industrial, commercial, liquid, HVAC and steam applications.

Mounted on a high-capacity,



hung cage designed control valve, the DigiBoss' electric actuator operates with analog signals 4-20mA, 0-10 VDC or Profibus DP.

The digital actuator's high-thrust, stall-proof motor provides positive positioning, prevents burnout and permits shutoff up to 750 psi.

Digital Actuator Control (DAC) allows automatic

adaptation to valve stroke, characteristic adaptation and manual operation with input keys. The DigiBoss is available in sizes 2 to 8-in., for pressures to 1,550 PSIG and temperatures to 800°F, with cast iron, carbon steel or chrome moly bodies and NPT, RF and DIN flanged connections.

Circle 20 on Reader Service Card



Protect your ship from a sea of troubles with Chockfast

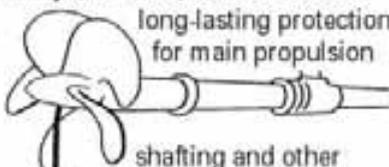
"the greatest single investment in engine security and maintenance economy."

Shipbuilders and ship owners rely on Chockfast to simplify installation and maintain performance of —

- main propulsion systems
- sterntube, strut, pintle, pedestal, rudder, ball and roller bearings
- cargo and engine-room pumps
- generators, auxiliary equipment
- steering gears ■ bow thrusters, stern winches, anchor windlasses

Knowledgeable shipbuilders and savvy mariners also rely on —

Phillyclad® 1775/620TS: Provides long-lasting protection for main propulsion



shafting and other metal surfaces exposed to the sea

Phillybond® REPAIR COMPOUND: Smooth, non-sagging fairing compound fills pitted or damaged surfaces, weld seams, joints and cracks in castings

Phillymastic® TG-7B: Load-bearing trowelable/pumpable mastic simplifies all types of tank installations

Impax® NONSKID: For safer footing and better traction on decks, roll-on/roll-off ramps and helicopter pads



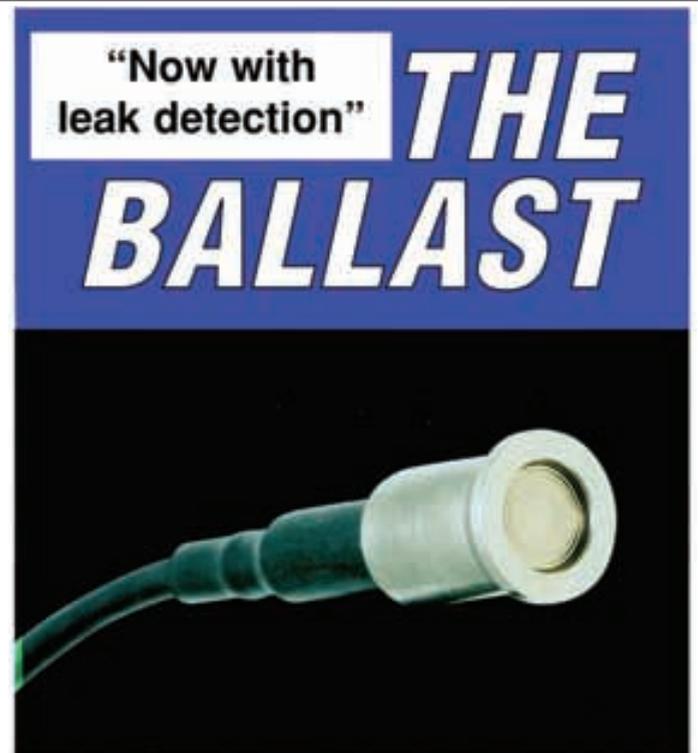
Phillyclad® 6470: Heavy-duty marine coating for propeller shaft couplings and pump impellers

When reliability cannot be compromised

ITW Philadelphia Resins

telephone 215.855.8450
www.chockfast.com

Circle 277 on Reader Service Card



"Now with leak detection" **THE BALLAST**

Smart Strain Gauge Level Sensor with Generic 4-20mA Output

Use one sensor for all shipboard liquid levels

This technology has been designed specifically for surviving the rigors of ballast tank continuous monitoring. It weighs less than 2 oz. and is constructed from 100% pure titanium.

- It's the size of your thumb
- Accuracy .25% of full scale
- 100% Titanium
- Weighs less than 2 oz.
- ABS/USCG/Lloyds approved
- FM Class 1, Div. 1 Intrinsically Safe
- Removal without tank entry
- No mercury or other contaminants
- Interfaces to your existing monitoring system
- One sensor for all shipboard liquids: fuel oil, lube oil, fresh water, black water, etc.
- Generic 4-20 mA output
- Used in 15,000 tanks worldwide

Many Options

Call today for more information!



ELECTRONIC MARINE SYSTEMS, INC.
800 Ferndale Place
Rahway, NJ 07065

732.382.4344
732.388.5111 fax
emsmarcon@aol.com e-mail
http://www.emsmarcon.com

Circle 232 on Reader Service Card

Pipes, Pumps & Valves

Heat-Transfer Pumps

Allweiler AG presents its AllHeat product family, related products for thermal oils and hot water. Pumps for hot water as well as petroleum-based and synthetic heat-carrier oils have been an Allweiler specialty for more than 40

years. Its specialty pumps move oil at temperatures as high as 350 °C and hot water up to 207 °C. Depending on the requirements, the pumps are constructed with either a shaft seal or a hermetically sealed magnetic drive. Process, block, and inline versions permit further adap-

tation to operational conditions.

Circle 21 on Reader Service Card

Fluid Power Announces New Power Unit

Fluid Power Solutions announced the addition of the building and manufactur-

ing of power units to its list of capabilities and services. FPS is now available to custom build and design,



engineer, install and service power units, offering a complete turnkey package deliverable to customers.

Fluid Power Solutions is a full service distribution company providing customers with components, systems, field service, repair and application engineering. FPS also provides engineering services for old and new applications.

Circle 22 on Reader Service Card

Geartek Added to Wooster Inventory

Wooster Hydrostatics announced the addition of the Geartek Product Line to its inven-



tory of remanufactured and serviceable products. In addition to the Geartek product line, Wooster Hydrostatics also services, stocks and rebuilds Denison, Rexroth, Brueninghaus, Hydromatik, Uchida, Lohman and Stolterfoht, Calzoni, Dynapower, Vickers, OilGear and Hydrokraft products.

Circle 23 on Reader Service Card

Atlas' Multi-Chamber Incinerator

Atlas Incinerators have come up with the Atlas Multi Chamber Incinerator, which is equipped with a



new design sludge burner, making it possible to burn up to two million Kcal/hr. (2,326 kW). The sludge from heavy fuel oil is burned by an atomizing process, which in combination with a high efficiency turbolator mixes the combustion air with the atomized particles even at high capacity.

The sludge system eliminates the need for two sludge tanks that can be both space and time consuming. A transfer pump and a mill pump for agitation and comminution of the contents of the tank make it possible to burn oil sludge with up to 50 percent water content, without supplying additional diesel oil to the burners or having to drain the tank.

Circle 24 on Reader Service Card

AGMarine

5711 34th Avenue NW, Suite 200
Gig Harbor, WA 98135-155A
253.851.0862 Fax: 253.851-0865
www.agmarine.com

AGMarine, Inc. would like you to join us, in this time of such great need, for your support to aid the survivors of the devastation caused by Hurricane Katrina. Please give generously.

To ensure that your donation goes directly to the American Red Cross, you can make a secure online donation through their website www.redcross.org, call 1-800-HELP-NOW to make a donation by phone, or contact your local American Red Cross chapter. You may also mail your donation to the American Red Cross Disaster Response Fund at P.O. Box 37243, Washington, DC 20013.

AGM sends our hopes and prayers to the Citizens of the Gulf Coast and especially to all of our friends and their families.



Yokogawa is Commercial Marine Distributor
World Wide Service & Support Network

YOKOGAWA

Circle 204 on Reader Service Card



"When Reliability Matters"

Marine Refrigerators/Freezers

CONSTRUCTION

- Heavy gauge stainless steel #304 interior and exterior
- Formed in place, CFC Free Urethane insulation, highest R-value
- Stainless steel spill proof shelves
- 2" exterior reading dial thermometer
- Extra heavy duty chrome plate hinges
- Positive keyed locking handle provides best seal
- Interior lighting in refrigerator compartment only
- Vinyl extruded replacement gaskets
- Heavy base frame



NAV-13-17-HLT-B - MIL-R-21098E

HEAVY DUTY REFRIGERATION SYSTEM

- Ozone safe R-134A refrigerant
- Wrapped refrigeration system
- Sealed, condensing unit, air or water cooled with pull out design
- Preset temperature controls
- Thermostatic expansion valve

793 Route 66, Hudson,
New York 12534-9801
1-800-836-0744 • Fax (518) 828-2257
Visit our website at:
www.rtfmanufacturing.com



Circle 284 on Reader Service Card

PUMP AND VALVE REPAIR - ALL TYPES

CAN'T GET THE PARTS? LONG LEAD TIME?
NEPV, INC. CAN MANUFACTURE YOUR PARTS QUICKLY AND AT COMPETITIVE PRICES.
DOES THE SAME EQUIPMENT KEEP FAILING?
WE CAN RE-DESIGN YOUR PROBLEM EQUIPMENT TO GIVE YOU TROUBLE FREE OPERATION
SALES AND SERVICE CENTER FOR TORISHIMA PUMPS. Duplex stainless steel pumps for RO Service.
ROBCO MECHANICAL SEALS MADE TO FIT YOUR EQUIPMENT.

LARGE MACHINING CAPABILITIES: TURNING, MILLING, GEAR CUTTING, SPLINE CUTTING, WELD REPAIR, METALIZING, HARDFACING.
EPOXY AND CERAMIC COATINGS.

Company owned and operated by an experienced marine engineer.

New England Pump & Valve Co., Inc.

36 Industrial Park Road
Niantic, CT 06357

Phone 860-739-2200 • FAX 860-739-2270

E-mail oddbrevik@nepv.com

www.nepv.com

Circle 268 on Reader Service Card



Ferries • Workboats • Excursion Vessels • Custom Builds

LOW IMPACT

High Speed - Allen Marine designed and built the worlds first, four jet catamaran in 1988 and has been a leader in high speed vessels ever since

Low Impact - Our vessels have a smaller wake and lower emissions than most vessels in their class

Functional - Set up for traditional side loading and/or bow loading. Designed with 30 years operating experience

Proven - Since 2000, Allen Marine has delivered 27 ferry and excursion vessels



Allen Marine

www.allenmarine.com • sales@allenmarine.com
(907) 747-8100 • Toll-Free (888) 747-8100

Circle 207 on Reader Service Card

Ameron



Ameron International pioneered the use of fiberglass pipe for shipboard and offshore platform use.

Ameron manufactures glass reinforced epoxy (GRE), vinylester and phenolic composite pipe and fittings globally and provides services, such as pre-fabrication of spools, assembly and installation training and field service anywhere in the world. Since the mid-1970's, Ameron has worked with regulators, testing authorities and Classification societies to identify the performance needs for composite piping in the marine and offshore environments.

Circle 25 on Reader Service Card

Thin Liquid Gear Pumps



Viking's thin liquid internal gear pumps are designed to handle low viscosity liquids with high efficiency. Viking pumps are self-priming and capable of reversible direction of flow, enabling use of one pump instead of two for loading/unloading or line stripping. The gear pump's flow is directly proportional to input speed, allowing it to meter process liquids. Thin liquid models are available in iron, steel or stainless steel, with adjustable end clearances and idler gears of iron, non-galling 770 alloy or PPO composite. The pumps offer capacities up to 17 cu. m./hr. (75 gpm) and a pressure range of 0 to 7 Bar (100 psi) at viscosities from 0.1 to 4 cSt, or up to 17 bar (250 psi) at higher viscosities. Close or long-coupled options, with motor-speed operation, reduce overall system cost and space required.

Circle 26 on Reader Service Card

IMO AB launches 3-D Pump Models

IMO AB, a member of the Colfax Pump Group, announced a new freeware tool for its standard pump-units.

The IMO 3D Pump Model was developed to make it easier for designers to

incorporate pumps into their own design systems.

Choice of pump is made from drop down menus, whereby the software presents a 3-D model of the selected pump in the format IGES, a standard format supported by most common

CAD-systems. By downloading Product View Express free of charge



from PTC's website on the Internet, chosen pumps can then easily be rotated, zoomed and dragged for a good look from all angles before further use, such as implementation into the CAD-system.

Circle 27 on Reader Service Card

WE JUST MADE OUR NO.1 POSITION EVEN SAFER

The Hammar H20 is a hydrostatic release unit, that enables liferafts and EPIRBs to surface and inflate or activate when a ship is sinking. The H20 is the world market leader and has more approvals from shipping authorities than any other release unit.

The new Hammar H20 has a 3-step coupling device

that, by eliminating the risk of incorrect installation, makes it even safer.

The new Hammar H20 has a Red Weak Link™ - but there is nothing weak about it

A brand new Hammar H20 with the Red Weak Link™ connector makes the installation easier and safer.

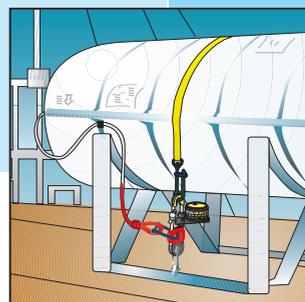
A new black thimble

The new Hammar H20 has a black thimble marked DECK which makes it easier to install.

No service or maintenance

The Hammar H20 never corrode and doesn't need service or maintenance for two years.

The Hammar H20 fits Liferafts and EPIRBs of all shapes and sizes.



HAMMAR®

BETTER SOLUTIONS FOR SAFETY AT SEA

ORDER THE NEW H20 TODAY!

Visit our website at www.cmhammar.com for more information
Available in U.S. from: Datrex Inc. P.O. Box 1150, Kinder, LA 70648.
Phone 800-828-1131 or 337-738-4511, Fax 337-738-5675. datrex@datrex.com

Circle 218 on Reader Service Card

THE BUBBLER



Smart Pneumatic Level Sensor with Generic 4-20mA Output

The Bubbler is an electro-pneumatic level transmitter that allows remote level measurement using a 4-20mA analog output. The lack of air pressure poses no operational problems, due to an automatic one-way valve which closes as soon as the pressure drops below 1 bar, this prevents back flow in the bubbling line towards the transmitter. Over pressure is also protected against by an automatic one-way valve.

- It's the size of a grapefruit
- Explosion proof housing
- Accuracy .3% full scale
- Automatic over-pressure valve
- Automatic stop valve for air failure
- Automatic cleaning of bubbling line
- Connection for pressurized tanks
- 2 pair 24 VDC and 4-20mA cable
- Top or side mount

Many Options

Call today for more information!

EMS

ELECTRONIC MARINE SYSTEMS, INC.
800 Ferndale Place
Rahway, NJ 07065

732.382.4344
732.388.5111 fax
emsmarcon@aol.com e-mail
<http://www.emsmarcon.com>

Circle 233 on Reader Service Card

LR Acquires Capstone

Lloyd's Register Americas, Inc. acquired Capstone Engineering Services, Inc. and Capstone Software Systems, Inc. The acquisition will be renamed Lloyd's Register Capstone, Inc. and is designed to strengthen the Lloyd's

Register Group's integrity services business and provide its oil and gas business with a broader base in the Americas. With the addition of Capstone software, RBMI, the Lloyd's Register Group strengthens its position by enhancing its risk and asset management services, and

its client-focused, software solutions.

Circle 28 on Reader Service Card

FDNY Awards Contract

Robert Allan Ltd. won a contract by the Fire Department of New York for the, design and construction administra-

tion of a major new fireboat. The new vessel will replace the aging Fire Fighter. The new vessel will be approximately 130 ft. (40 m) long, have a service speed of 17.5 knots, and a total pumping capacity of 8,200 cu. m./hr. (36,000 gpm). It is expected to be put to tender at shipyards late in the second quarter of 2006.

Circle 29 on Reader Service Card

Grand Alliance Announces New Cooperation

The member lines of the Grand Alliance (GA) and The New World Alliance (TNWA) announced its agreement to cooperate on key trades from early 2006. This cooperation is designed to significantly broaden the respective Alliances' capabilities, network coverage and schedule frequency, with improved service efficiency and wider choice for customers of the respective Alliances.

The member lines of the Grand Alliance [Hapag-Lloyd Container Line (HLCL), MISC Berhad (MISC), Nippon Yusen Kaisha (NYK), and Orient Overseas Container Line (OOCL)], and The New World Alliance [APL, Hyundai Merchant Marine and Mitsui O.S.K Lines Ltd.], will initially exchange slots in the Asia-Europe and Asia-Mediterranean trades, and introduce a new jointly-operated loop on the Asia-East Coast of North America, via Panama trade.



imes systems

complete crane monitoring and measurement solutions

wireless and cabled systems for standard and custom applications

- load measuring pins
- line-tension meters
- overload protection
- clamp-on load limiters
- in-hook applications
- below hook devices

domestic and worldwide locations
tel 888 998 3787
intl 1 909 626 8316
web www.imes-systems.com

GSA Contract Holder
GS-07F-02873

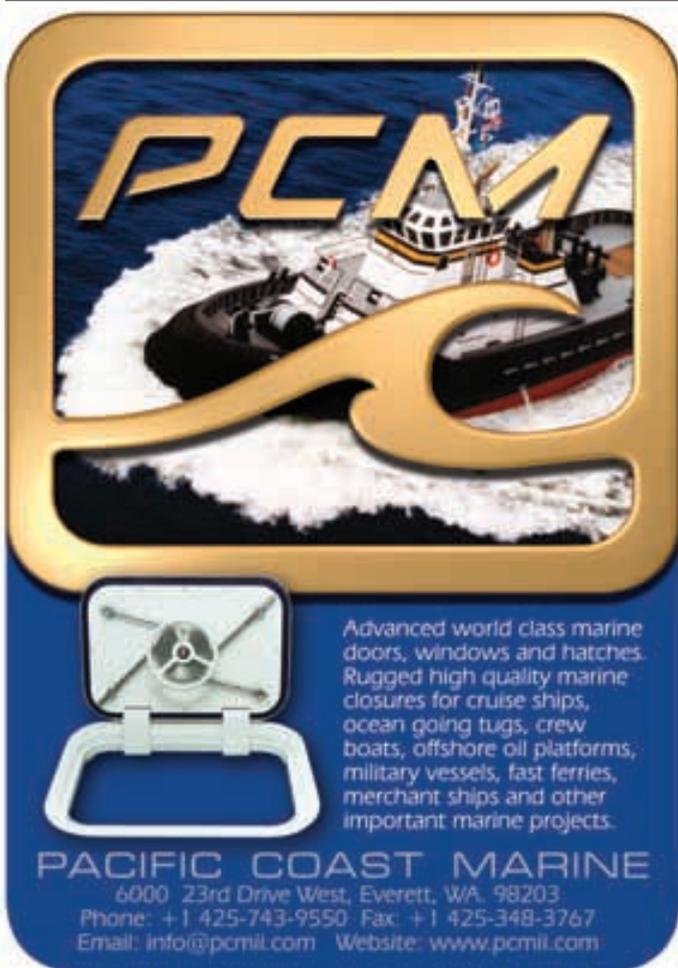
Circle 248 on Reader Service Card



Donjon Marine Co., Inc.

Phone: (908) 964-8812 Fax: (908) 964-7426
Web Site: www.donjon.com
E-Mail: inquiries@donjon.com
1250 Liberty Avenue, Hillside, New Jersey 07205 USA

Circle 230 on Reader Service Card



PCM

Advanced world class marine doors, windows and hatches. Rugged high quality marine closures for cruise ships, ocean going tugs, crew boats, offshore oil platforms, military vessels, fast ferries, merchant ships and other important marine projects.

PACIFIC COAST MARINE
6000 23rd Drive West, Everett, WA. 98203
Phone: +1 425-743-9550 Fax: +1 425-348-3767
Email: info@pcmil.com Website: www.pcmil.com

Circle 273 on Reader Service Card



Marine Deck Hardware and Equipment

- **ANCHORS:** •
50 to 60,000 Lbs. - New and Used
Stockless - Danforth - L.W.T. - Halls - Snug Stowing
- **CHAIN:** •
3/4" to 5 1/2" - New and Used
Stud Link - Cast Steel - Grades 2 and 3 - Oil Rig Quality for Moorings, Towing, Barge Handling, Ship's Replacement
- **WINCHES - WINDLASSES - CAPSTANS:** •
Vertical or Horizontal Hand, Electric, Diesel, Hydraulic or Repowered to your specs
- **HATCHES - WATERTIGHT DOORS**
MANHOLE COVERS - SCUTLES - PORTHOLES: •
All Sizes - New or Reconditioned
- **PANAMA CHOCKS - DOUBLE BITTS**
SINGLE BITTS - CAST STEEL CLEATS
AND KEVELS: •
All Sizes Available, New & Used
- **FENDERS PNEUMATIC:** •
For Rent or Sale
All Sizes, New & Used

GIGANTIC INVENTORY NEW & USED
Call Toll-Free (800) 322-3131

IN STOCK NOW
in the West Coast, East Coast and The Gulf

SERVING THE MARINE & OIL INDUSTRIES FOR OVER 35 YEARS
WE ARE DIRECT FACTORY DISTRIBUTORS & IMPORTERS

P.O. BOX 556
WILMINGTON, CA 90748
PH: (310) 522-9698
FAX: (310) 522-1043

WATERMAN SUPPLY CO., INC.

Circle 307 on Reader Service Card

Wärtsilä Lips Propeller Shaft Seals



Wärtsilä Lips, Chesapeake, Va., installed a pair of its maneGuard PSE propeller shaft seals on the MY Bart Roberts. The maneGuard line of water lubricated shaft seals offer silicon carbide wear elements designed for long, trouble-free life even in abrasive waters. All serviceable components can be replaced with the shaft in place, even with the vessel afloat. The product was developed for naval, commercial and yachting markets and also includes fully split designs, bronze housings, no shaft wear and large allowances for shaft movements. Wärtsilä Lips maneGuard shaft seals were chosen for this vessel due to the quick delivery time, long service life and maintainability required for a vessel of this size.

Circle 30 on Reader Service Card

Maritime Reporter & Engineering News

MaK M43 Passes the Test

Andreas Sikorski, Service Director at MaK Deutschland is satisfied, as the recent and first 30,000-hour overhaul on a MaK M43 reportedly exhibited outstanding results.

"Satisfactory seals, intact valves, piston rings in order, bearings without cavitation phenomena and stable running patterns on rollers and cams."

MaK Deutschland GmbH & Co. KG, a subsidiary of the German Caterpillar dealer Zeppelin Baumaschinen GmbH, has the exclusive sales and service license for MaK branded engines in Germany, Austria, Switzerland, Cyprus, Czech Republic, Hungary, Slovakia, Poland, Romania, Bulgaria, Russia and all of the former CIS states. Otterndorf, Germany shipowner Heinz Ehler expressed confidence in the brand when he had his container feeder Anke Ehler - the first ship of the Sietas 160A Type - equipped with the 8 M43, which was then brand new. After the engine was officially introduced in 1998 (as the fourth type of the new MaK engine generation), the commissioning of the Anke Ehler in April 2000 represented the commercial premiere for the MaK M43. The 658 TEU ship is also equipped with two Cat 3412 auxiliary diesels and a Cat 3304 emergency diesel.

Five years have passed with the Anke Ehler in service in the North Sea and the Baltic under contract to the Unifeeder shipping line. In the same period, Caterpillar Marine Power Systems has sold more than 400 additional 6, 7, 8, 9 and 12 cylinder engines of the MaK M 43 series. Approximately 90 percent of these operate as the main engine, driving adjustable propellers and shaft generators in heavy oil operation, and the other 10 percent are used in diesel-electric propulsion systems or stationary electricity generation plants.

In the power range from 5,000 kW to 8,000 kW, the MaK M 43 in-line engine has made a strong mark in the container feeder, RoRo ferrie and RoPax ship niches. In order to minimize the work necessary, the company's DICARE diagnosis system is being increasingly employed.

DICARE monitors all the important engine parameters and generates, from them, a continually updated analysis of the engine condition. These reports are made available to the ship's management and, optionally, by means of remote data transmission, to the shipping line or the respective service partner of Caterpillar Marine Power Systems. Some 300 measurements are detected in this way. They are then prepared for graphical, required/actual comparison and, as part of the expert system, are compressed to condition-dependent service recommendations. In this way, time in the yard, service operations, spare parts provision and personnel dispositions can be planned in an optimum manner.

30,000-hour overhaul

Up to now, some forty 15,000 operating hour overhauls have been carried out on M 43 engines. In total, the main engines now in service represent an experience stock of more than 2.9 million operating hours. Nevertheless, the tension was high when the Anke Ehler came in for the class docking at the Hamburg Norderwerft at the beginning of April 2005.

"The timetable for the engine overhaul was fixed at just four working days, a tight schedule because, at the

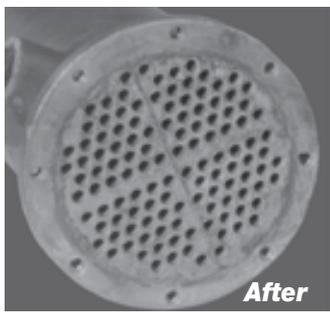
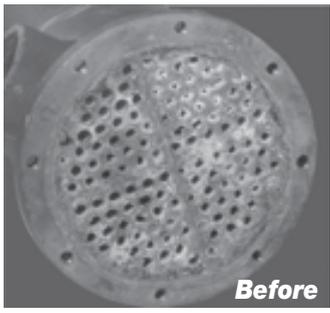
request of the shipping line, the cylinder heads had to be reused and, therefore, had to be transported to our Hamburg workshop for investigation and possible rework," explains Sikorski. "However, we were appropriately prepared with two teams consisting of experi-

enced specialists and operating in two shifts."

The following operations were carried out as part of the 30,000 operating hours overhaul on the Anke Ehler:

- Cylinder heads (remove, dismantle, clean)

• BIODEGRADABLE • SAFE • NON-CORROSIVE •

RYDLYME Marine is a safe, biodegradable marine descaler developed to dissolve calcium, rust, mussels, barnacles, and many other scale-formed mineral deposits that hinder your water based equipment.

RYDLYME Marine is effective on engines, all types of coolers, waste water piping, tube bundles, heat exchangers, and many more applications.

**DISTRIBUTORS WANTED
TERRITORIES AVAILABLE**



www.rydlymemarine.com

Apex Engineering Products Corporation
800-451-6291 • 630-820-8888
Fax: 630-820-8886 • dpetrille@rydlyme.com

• BIODEGRADABLE • SAFE • NON-CORROSIVE •

Circle 211 on Reader Service Card

"Now with leak detection"

THE RADAR



Smart Radar Level Sensor with Generic RS485 Output

The first flat array antenna for liquid tank gauging. This software driven array allows for each sensor to remotely configure itself for the type of product as well as the structural characteristics within each tank. It is completely self-diagnostic and is factory calibrated using a laser interferometer to .1mm. It is designed for the harshest environments and can be provided in a high temperature version to 385°F. It is intrinsically safe with Class 1, Div. 1, Group D & C approvals. As a smart sensor, all processing calculations and software are resident in the device itself, only a high level generic data output, i.e., RS485 (or others on request) is sent to the cargo control area.

Options:

- Multiple alarm set-points
- Temperature • PV Pressure • I.G. Pressure
- Tank Management Software
- Automated draft and trim

Call today for more information!



ELECTRONIC MARINE SYSTEMS, INC.
800 Ferndale Place
Rahway, NJ 07065

732.382.4344
732.388.5111 fax
emsmarcon@aol.com e-mail
http://www.emsmarcon.com

Circle 234 on Reader Service Card

Propulsion Update

- Valves (measure guides; process seatings; grind, inspect and lap spindles)
- Injection nozzles (exchange nozzle elements and seals)
- Pistons (remove, dismantle, clean; inspect crown and skirt; measure rings and grooves)
- Cylinder liners (inspection and fit replacement calibration ring)
- Connecting rod bearings (inspection with routine replacement)
- Main bearings (inspection with rou-

tine replacement)

- Camshaft (inspection of bearings and cam follower)
- Turbocharger (inspection of components and bearings)

According to the engine manufacturer, the good condition of the M43 was evident during the dismantling of the cylinder heads. All the seals were satisfactory, the bottom surface of the cylinder head was only slightly dirty, and the whole of the upper valve drive and the

valve guides were within the permissible tolerances. The slightly dirty inlet valve spindles or slightly to moderately dirty exhaust valve spindles exhibited a satisfactory condition after cleaning, and the seating surfaces themselves were completely intact. There was minimum high temperature corrosion on the lower surface of the exhaust valve, and the expected valve life of 30,000 hours was, in consequence, reliably achieved.

"In view of the exclusive operation on

heavy oil (IFO 180) of the Anke Ehler, the small amount of valve pollution was impressive confirmation of the ability of the M 43 to burn even poor fuel satisfactorily," said Sikorski. "In the combustion bowl of the piston crowns, there was a marked and clearly limited injection pattern.

Piston rings and piston skirt were clean and without irregularities. There was no wear of any type on the chromium layer of the piston rings and the wear of the ring grooves was less than 0.01 millimeters per 1,000 operating hours."

As a check, MaK Deutschland also removed and assessed one of the cylinder liners. No traces of rust or relative motions between the support surface and the engine block could be recognized.

The calibration ring prevented the feared coke rubbing; it was replaced in accordance with the maintenance plan. The original honing structure were still present over the whole of the liner region and, in the upper region, the wear rate was again less than 0.01 mm per 1,000 operating hours.

The inspection results for the connecting rod bearings and main bearings can be briefly summarized - very good condition of the running surfaces, uniform running pattern, no cavitation phenomena, no findings with respect to the contact patterns on the back of the bearings. Nevertheless, replacements were, of course, fitted for all the bearings, in accordance with the maintenance specification, after 30,000 operating hours. The camshaft also exhibited markedly stable running patterns - which were not apparent to the touch - on the rollers and cams. The rollers, bushes and pins of a cam follower drive, dismantled as a sample, exhibited no irregularities.

"In the case of heavy oil operation, combustion residues must be regularly cleaned from the turbocharger; the cleaning method used for this purpose substantially determines its life," Sikorski emphasizes. "From a total of 28,470 engine hours of the Anke Ehler, cleaning by thermal shock is recorded for 11,500 operating hours and by low-load washing for 16,970 operating hours. Under these circumstances, the incipient cracks on the trailing edges of the nozzle vanes and the slight erosion traces on the nozzle ring and the turbine diffuser were within the tolerance limits. Whereas the thrust bearing on the turbocharger could be reused because of its satisfactory condition, we have, as a precaution, fitted replacements for the journal bearings because of slight wear traces and slight grooves."

For Sikorski, the results of the 30,000 operating hour overhaul on the Anke

Kobel Controls. A Long-term Investment.



You expect the control systems on your boat to provide many years of care-free boating. It's comforting to know you can always rely on Kobelt quality for exceptional value in reliability, safety and ease-of-use. Kobelt controls offer more than just a new system today...



they are a long-term investment. Kobelt Manufacturing has been producing high quality marine controls and steering for over 35 years. We back every one of our products with a 5 year warranty, along with worldwide sales and support. Contact us today!

KOBELT Quality Control



8238 129th Street, Surrey, British Columbia, Canada V3W 0A6
E-mail: sales@kobelt.com Website: www.kobelt.com
Sales: 604.590.7313 Fax: 604.590.8313

Circle 258 on Reader Service Card

Ehler are evidence of the degree of maturity achieved on the MaK M 43: "The problems which occasionally occurred with individual components at the beginning of series production were corrected. The MaK M 43 has now provided convincing evidence of solid performance and a high level of reliability in day-to-day operation. And the small amount of maintenance required pleases both the shipping lines and the crews."

"Pleasure in traveling"

"A marine engine has to please the active partners during operation of the ship," the ship owner Heinz Ehler agrees. "And the pleasure depends on its reliability!" Founded 80 years ago as a family concern, the Ehler shipping line now operates, on the North Sea and the Baltic, three of the container feeders built by J. J. Sietas KG in Hamburg; a fourth ship has been put into operation just recently. Initial experience with MaK engines was collected by the shipping line as early as 1956 with an 8 M

453 and, of the current four ships, Anke Ehler, Nathalie Ehler and the new ship Andrea Ehler are equipped with the MaK M 43.

The shipowner summarizes what he expects from Caterpillar Marine Power Systems: "Technology and price are, of course, important but the most important thing for us is reliability. Even if there were some initial teething troubles with the M 43 of the Anke Ehler, the ship has not been idle for a single day, with the exception of the class dockings, and the MaK Deutschland service team has corrected the problems which occurred with the maximum possible speed in every case. From our experience, the MaK M 43 is a good engine."

Heinz Ehler is now planning another new ship with a further increased capacity of 1250 TEU. "Our requirements with respect to quality and reliability again speak clearly in favor of the M 43. It is only with respect to the power that we would like something extra."

Circle 31 on Reader Service Card

Wärtsilä Wins Chilean Coast Guard Contract

Wärtsilä Corporation won a contract to deliver complete propulsion systems for two 262 ft. (80 m) offshore patrol vessels of Fassmer design for the Chilean Coast Guard. Each patrol vessel will be equipped with two 12-cylinder Wärtsilä 26 main engines having a combined power of 8,160 kW at 1000 rpm for a maximum speed of more than 20 knots. The engines will each drive a Wärtsilä Lips controllably-pitch propeller through a single-input Wärtsilä reduction gearbox. Wärtsilä will also supply the control systems for engines and propellers plus Wärtsilä Deep Sea Seals sterntube seals. The first ship set of equipment is due for delivery to Chile in early 2007. The patrol vessels will be built at the ASMAR Talcahuano shipyard and are due for commissioning in 2008 and 2009. They will be owned and employed by the Chilean Coast Guard to conduct interdiction and security operations up to 200 miles from shore.



The offshore patrol vessels of Fassmer design for the Chilean Coast Guard will be equipped with complete Wärtsilä propulsion systems.

Circle 32 on Reader Service Card

Aker Wins Semi-Sub Contract

Aker Drilling has awarded Aker Kvaerner a turn-key contract for the delivery of two sixth-generation deep-water drilling semi-submersibles with an option for another two rigs by 2010. The two drilling rigs are scheduled for delivery in February and October 2008. The contract value is approximately \$1.15 billion.

The contract comprises the complete delivery of the two biggest and most advanced drilling rigs in the world. The engineering will be carried out at the Aker Kvaerner's engineering office at

Lysaker and Aker Kvaerner MH's office in Kristiansand, Norway. Aker Yards, Brevik, will perform the hull design.

Subsea Tie-in and Connection Contract

Aker Kvaerner Subsea has been awarded a contract for supply of tie-in and connection system for Hydro's Fram Øst and Vilje Field Development in the North Sea through Technip Norge AS. The total contract value for the two projects are approximately \$3.5 million.

The Fram Øst field is located in Block 35/11 and will be tied back to the Troll C platform.

CRANKSHAFT GRINDING

While Installed in Engine



- CRANKPIN AND MAIN JOURNAL REFURBISHING While crankshaft is in engine

- LINE BORING OF MAIN BEARING POCKETS Laser and Optical Alignment

- ALL TYPES OF ON-BOARD MACHINING Cylinder boring, engine top decks, horizontal joints, couplings, journals



- METALSTITCH® Only Lloyd's approved USA company for repair of cracked or broken cast iron engine blocks

IN-PLACE MACHINING COMPANY

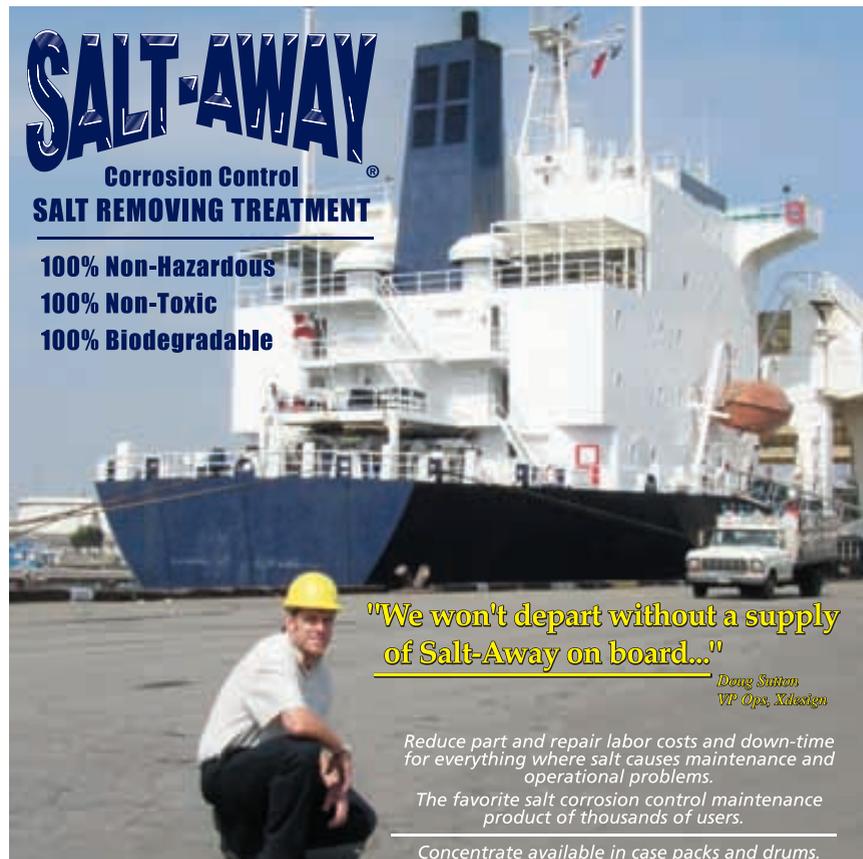
USA: 800-833-3575 International: 414-562-2000 FAX: 414-562-2932
24 HOUR EMERGENCY SERVICE...day or night, 365 days a year
email: help@inplace.com Website: www.inplace.com

Circle 250 on Reader Service Card

SALT-AWAY

Corrosion Control
SALT REMOVING TREATMENT

100% Non-Hazardous
100% Non-Toxic
100% Biodegradable



"We won't depart without a supply of Salt-Away on board..."

Doug Sinton
VP Ops, Kideesign

Reduce part and repair labor costs and down-time for everything where salt causes maintenance and operational problems.

The favorite salt corrosion control maintenance product of thousands of users.

Concentrate available in case packs and drums.

Salt-Away Products, Inc. • 1533 East McFadden Avenue, Suite B • Santa Ana, CA 92705
(714) 550-0987 • Fax: (714) 550-7787 • Toll Free: 888-SALT-AWAY (725-8292)
e-mail: sales@saltawayproducts.com • www.saltawayproducts.com

Circle 285 on Reader Service Card

"First of its Kind" Dredger Built in China

In 2003 Vosta LMG received an order from Hudong Zhonghua Shipyard for the design and supply of all dredging components for a Trailing Suction Hopper Dredge (TSHD) for the Chinese Harbor Authority

Huanghua Port. Fast forward to November 11, 2004, and the finished dredge was delivered by Hudong Zhonghua Shipyard to Huanghua Port Authority, after successful dredge trials in the Yangtze estuary.

Shen Hua has now started duty; the required, continuous dredging work to maintain the required depth of the port waterway entrance of Huanghua Port. This was the initial reason for the Board of Management of Shenhua Group to invest into their own Trailing Suction Hopper Dredge. Huanghua Port, located at the North East Coast of China, belongs to the Shenhua Group and is the main hub for worldwide transport of coal being excavated in the mines located in the northern part of China.

The order for Vosta LMG covered the complete engineering package and the delivery of the dredging components for a 5,000 cu. m. Trailing Suction Hopper Dredge. The new TSHD is designed as twin-screw vessel with CPP and two free hanging rudders. The deckhouse is arranged on fore ship and can accommo-

Good-looking boat?
Don Sutherland photographs boats and all the things they do.

In New York:
718-447-3908
ssuthe7880@aol.com

Two-thousand boats on the website, all looking good:
www.don-sutherland.com

Circle 229 on Reader Service Card



Shen Hua Main Particulars

Hopper content	5,000 cu. m.
Length, o.a.	122 m
Breadth	22 m
Depth	7.7 m
Draft (on dredging freeboard)	6.9 m
Dredging depth	26 m
Deadweight	7,530 dwt
Power installed	10,870 kW
Speed	14.3 knots
Trailing suction pipe dia.	ND 900 mm
Officers and crew	45 persons

www.marinesigns.com
Marine & Offshore Signage Experts

Moving forward with Maritime Associates' new expanded technology and capabilities will supply ALL your signage needs, including complete shipboard conversion projects and sign upgrading services.

What can we do for you?

Call us today or visit our website to order online.

Ask for your FREE CD Product Guide

Maritime Associates, Inc.
P.O. Box 1788, Crystal Bay, NY 89402 USA
775-832-2422 * Fax: 775-832-2424
E-mail: maritimeas@charter.net

Circle 265 on Reader Service Card

M&I systems inc.

Custom Marine Electrical Panels

Electrical Distribution - Engine control/monitoring
Alarm systems -
Any size, color, configuration, back lighted, water proof, AC/DC
commercial - pleasure - military -
Builders - Vessel repair yards - Fleet operators - owners

Electrical Equipment

Airpax breakers - Carling breakers & switches-
VDO Marine gauges - GBI marine gauges
Eaton mil spec switches
all in stock

4200 Aurora Ave. No. Seattle, WA 98103
Phone 206 547 7899 - Fax 206 547 8875
mandisystems.com

Circle 260 on Reader Service Card

Finally. Another High-Quality Option. Commercial Marine Diesel Engines

MITSUBISHI ENGINE From 429 HP to 2,158 HP

S6A3 S6B3 S6R S12A2

HIGH PERFORMANCE • FUEL EFFICIENT • DEPENDABLE • AFFORDABLE

Anybody who knows Mack Boring, knows we're all about quality.

Branches in New England - Mid-Atlantic - Carolinas - Great Lakes

www.mackboring.com • (800) MACK-ENG • info@mackboring.com

Locations throughout the East Coast
2365 Route 22 - Union, NJ 07083
Phone: (908) 964-0700 - Fax: (800) MACK FAX

Authorized Distributor
MACK BORING & PARTS COMPANY
The Power Behind The Power

Circle 261 on Reader Service Card

Ocean Technical Services Corp.

General Ship Repair
Steel Work
Piping and Valve Overhaul
Welding Of All Types, ABS Certified
Electrical
Mechanical Services
Voyage Repairs

Military Ocean Terminal Bayonne
Unit # 8 - Foot of 32nd Street
Bayonne, New Jersey 07002
Tel: 201.858.8552/3 Fax: 201.858.8509

Circle 270 on Reader Service Card

Removes Rust, Paint & Barnacles! From Steel Ships

SWIRL-OFF

DESMOND
P.O. Box 30
Urbana, Ohio 43078
Phone 937-653-7181
Fax 937-653-5511
www.swirloff.com

Circle 228 on Reader Service Card

date up to 45 persons. The hopper is of semi-closed type with center box keelson and transverse saddles. The hopper load can be dumped through 10 conical bottom valves — arranged in two rows — or discharged via a bow coupling through a shore pipeline.

This TSHD is equipped with two 900 mm diameter trailing suction pipes. The shape and the equipment of the hopper represent a new way of construction developed by Vosta LMG. The hopper has smooth walls and the bottom valves are arranged in two rows. The unloading equipment, the bottom valves and the jet water system for diluting the load allow quick discharge of the hopper even without conventional bottom flaps with wide openings. In order to benefit of building in series, a number of dredging components such as side suction pipes, hoisting frames, bottom valves, overflow weirs, just to mention a few are of proven serial design. The lines of the ship, however, have been optimized to suit the respective applications and the different propulsion and dredging concepts. The two tailor made dredge pumps are installed in a separate room and are driven direct from the two main propulsion plants.

Both trailing suction pipes are equipped with the latest development in draghead design. These active dragheads combine high excavation capabilities for loosening high compact soil at Huanghua Port with optimized hydraulic properties for mixture transportation. The dredge production can be optimized by controlling the draghead visor angle to the ground.

The automation controls, visualizes and reports the entire dredging process. It controls the pumps and valves to ensure operation with the maximum and always optimized discharge rates. Amongst other parameters, the mixture

concentration, mixture flow and pressure on the suction side are taken into account for optimization of the dredging process. Moreover, various automatic functions and sequences such as swing-

Shen Hua, a Trailing Suction Hopper Dredge (TSHD) for the Chinese Harbor Authority.



Photography by Skeets Photo Service

Diamond Services just keep adding to their family.



Diamond Services demand performance and reliability from their fleet of hard working crew/supply boats operating in the Gulf of Mexico. That's why they keep coming back to Hamilton Jet.

No other waterjet propulsion system is as widely used and supported around the world. So, if you're thinking about a new addition to your family, rely on Hamilton Jet to deliver.

Head Office C.W.F Hamilton & Co. Ltd. PO Box 709, Christchurch, New Zealand. Phone: +64 3 348 4179, Fax: +64 3 348 6969, Email: marketing@hamjet.co.nz

U.K. Office HamiltonJet (U.K.) Ltd. Unit 4a, The Birches Industrial Estate, East Grinstead, West Sussex RH19 1XZ, United Kingdom. Phone: +44 1342 313 437, Fax: +44 1342 313 438, Email: sales@hamjetuk.com

U.S.A. Office HamiltonJet Inc. 1111 N.W. Ballard Way, Seattle WA 98107, United States of America. Phone: +1 206 784 8400, Fax: +1 206 783 7323, Email: marketing@hamiltonjet.com, Website: www.hamiltonjet.com



HamiltonJet
www.hamjet.co.nz



Bow Coupling on Shen Hua

ing out the side suction pipes, moving the valves into the required working mode etc. are of great help to the dredge-master to achieve quicker and safer operation. Besides the process visualizing system, a graphic side suction pipe position indicator shows the exact position of the side suction pipe. It

is integrated into the entire system in the same way as the loading computer for exact monitoring of the loading condition of the TSHD.

China to Build Bulk Carrier for Japan

The evolution of shipbuilding in the

Far East may be picking up steam, as the China State Shipbuilding Corporation (CSSC) signed a contract with the Japan's Kawasaki Kisen Kaisha to build a 177,000-dwt, \$60-million Capesize bulk carrier. The ship will be built by the Shanghai-based Waigaoqiao Shipbuilding Corporation, a subsidiary

of CSSC. CSSC won two orders from Nippon Yusen Kaisha (NYK) - another Japanese company — last year, marking the first time Chinese builders have taken business from the Japanese shipbuilding market. China's vessel production has maintained an annual average increase of 26 percent over the past five years, according to statistics from the Commission of Science, Technology and Industry for National Defense.

However, its lack of a large marine components industry is a problem for its shipbuilding sector, one that is being addressed with the creation of mammoth industrial parks intended to house manufacturers of many of the products and systems found onboard ships.

Chinese Tugs for Export

Production Manager **Zhang Peng** is pleased with his company's production and it is with good reason. A relatively new yard, in operation for the past four years on the banks of the Yangtze River, Nanjing Tong Kah Shipbuilding is busy with a number of projects including several 300 and 360 x 80-ft. barges.

Tugs are also an important part of their current marketing program. They have recently delivered two 2,400 hp tugs and in mid-June they had two more nearing completion. These are Bureau Veritas classed boats with a length of 29.2 meters, a 9-meter beam and a 4.4-meter molded depth. The current set of four boats is each powered by a pair of Cummins KTA38 M2 engines rated for 1200 hp each at 1,800 rpm. Turning 1.9x1.69-m 4-blade Kaplan props in nozzles, through Reintjes WAF562 gears with 5.4:1 ratios, the tugs deliver 30 tons of bollard pull. The Kort nozzles are fabricated in the shipyard while the 850 kg manganese bronze propellers are purchased from a supplier. The boats are each equipped with a towing winch holding 300 m of 42-mm wires. They also are equipped with towing hooks. Accommodations are provided for a complement of 12 with staterooms for the captain and chief engineer on the main deck level and there are two two-man cabins and one six-man cabin in the foc'sle. Fuel is contained in 2,000 cu. m. of tanks. The yard, located near Nanjing and 300 km up the Yangtze from the sea, is able to build a tug of this class in eight months and is currently completing one every six weeks. The current four-boat order is for export to Singapore and Malaysian owners. Previous to these boats two similar boats with the same engines rated for 1,000 hp each and 25-ton bollard pulls were completed and delivered for export.

**Where
in the world**
will you meet the shipowners
operating a fleet of almost 4,000 vessels of 140 million dwt,
20% of world shipping, the largest fleet under the control
of any one national group
ordering in excess of 350 new buildings
worth US \$14 billion, over 18% of the world total in value
spending some US \$8 billion annually on fleet
modernisation, maintenance service and supply
and joined by
the global community of maritime nations
only at
Posidonia
The Heart of Shipping
5 - 9 JUNE, 2006 PIRAEUS GREECE
Posidonia Ποσειδώνια
The International Shipping Exhibition
Organisers: Posidonia Exhibitions SA www.posidonia-events.com

REGIONAL SALES REPRESENTATIVES

- International sales except those territories listed below: **Seatrade** E-mail: sales@seatrade-global.com
- For China, including Hong Kong and Taiwan: **CMP Asia Ltd** E-mail: StellaFung@cmpasia.com
- For the United States of America: **CMP Princeton, Inc.** E-mail: posidonia@cmpprinceton.com
- For Greece, Cyprus, Balkans and Latin America, contact the Posidonia organisers: posidonia@posidonia-events.com

Circle 278 on Reader Service Card



General cargo
Generating set size 520 kW - 875 kW. Superior reliability and maintainability all over the world.



Container vessels
Generating set size 520 kW - 2700 kW. Superior operating economy for high-power installations.



Product and chemical tankers
Generating set size 520 kW - 1600 kW. Superior safety and loadability for any demanding installation.



Tankers
Generating set size 520 kW - 1600 kW. Superior performance with minimum operating cost and global spare part availability.



Commercial vessels
Generating set size 60 kW - 1630 kW. Superior product range with unbeatable installation features.

WÄRTSILÄ

AUXPAC

Plug-in power

WÄRTSILÄ® Auxpac pre-commissioned generating sets from 60 to 2850 kW ensure the availability of sufficient electrical power as and when needed. Fast installation, easy operation and low operating costs bring outstanding benefits to both shipbuilders and shipowners. The generating sets are supplied complete and ready for installation with easy-to-use documentation. Project management and experienced marine engineering are provided to support design and installation. The Wärtsilä service network with more than 6000 professionals worldwide enables the best support for Wärtsilä Auxpac generating sets anywhere at any time.

Circle 304 on Reader Service Card

For more information please visit www.wartsila.com/auxpac



WÄRTSILÄ



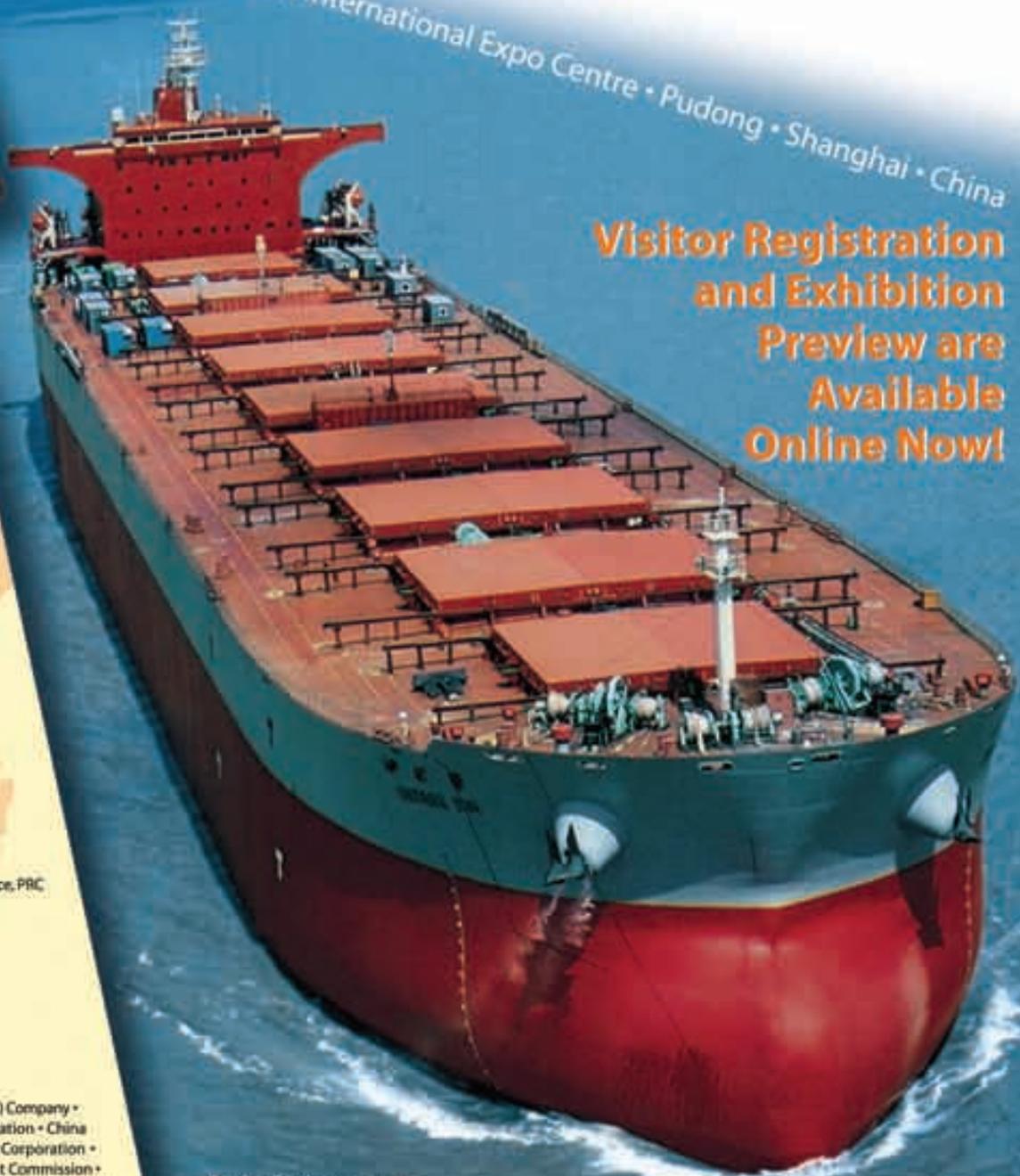
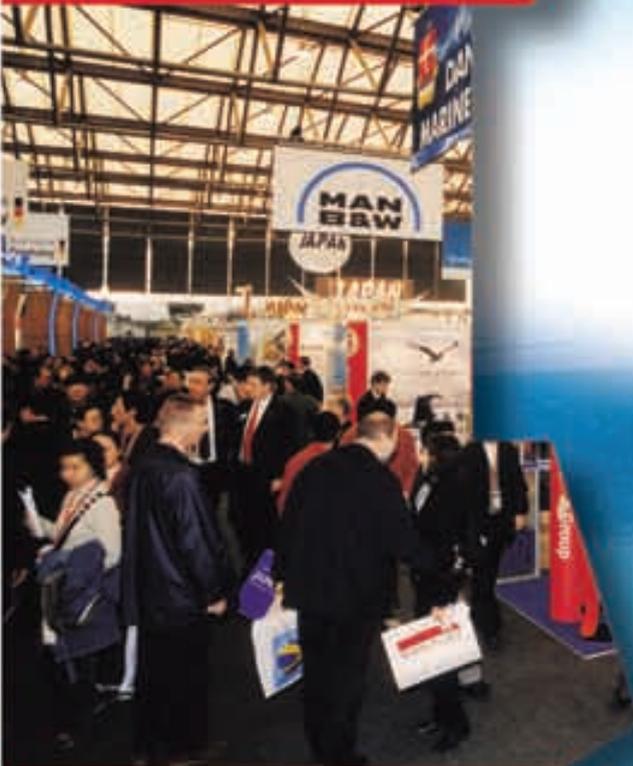
Marintec China 2005

The All China Maritime Conference & Exhibition

6-9 December 2005

Shanghai New International Expo Centre • Pudong • Shanghai • China

Visitor Registration
and Exhibition
Preview are
Available
Online Now!



Organised and Managed by
CMP / Seatrade



Shanghai Society of Naval Architects
& Marine Engineers (SSNAME)



Sponsored by

The Commission of Science, Technology & Industry for National Defence, PRC
The Ministry of Communications, PRC
Shanghai Municipal People's Government

Co-sponsored by

China State Shipbuilding Corporation
China Shipbuilding Industry Corporation
Chinese Society of Naval Architects & Marine Engineers

Supported by

Equipment Department of PLA Navy, PRC • China Ocean Shipping (Group) Company •
China Shipping (Group) Company • China National Petroleum Corporation • China
Petroleum and Chemical Corporation • China National Offshore Oil Corporation •
China Classification Society • Shanghai Combination Port Management Commission •
Shanghai Shipping Exchange • Shanghai Jiaotong University • China Ports and Harbours
Association • The Royal Institution of Naval Architects • The Institute of Marine Engineering,
Science and Technology • International Association of Ports and Harbours.

www.marintecchina.com

For details, please contact:

CMP Asia Ltd
Tel: (852) 2827 6211
Fax: (852) 2827 7831
Email: marintec@cmpasia.com

Seatrade
Tel: (44) 1206 545121
Fax: (44) 1206 545190
Email: rjohnson@seatrade-global.com

CMP (Princeton) Inc
Tel: (1) 609 452 2800
Fax: (1) 609 452 9374
Email: marintec@cmpasia.com

Circle 264 on Reader Service Card

LED Lantern Accepted by USCG

Watermark Navigation Systems said the U.S. Coast Guard has formally accepted its Sealite SL-125-2 LED 5 n.m. Marine Lantern for use on Class A Structures in accordance with 33 CFR Part 67.20-5.

The SEALITE SL-125-2 is a two tier lantern featuring the latest in LED technology to provide maximum light output with a minimum amount of current draw. The lantern features SEALITE's patented LED Reflector and proprietary LED Lens to maximize light output.

Circle 33 on Reader Service Card

AE Light Debuts Power Light 14

AE Light introduced the 14W HID Power Light, which produces 800+



lumens of true white light in a compact beam. The new 14W model, is designed for law enforcement, border patrol, search & rescue, maritime interdiction, and long-range target identification or recreational activities including camping, hunting, hiking, aviation, and as an emergency light everywhere.

A rechargeable lithium ion battery delivers power to illuminate this powerful flashlight for 1.5+ hours with full charge. The battery has a life span of 500+ charges and can be changed easily.

Circle 34 on Reader Service Card

Oversized Stainless Steel Ratchet Tie-Downs

Nautitool, a division of Sterutool, Inc., will introduce a four-in. (100mm) all stainless steel ratchet tie-down. "A major breakthrough for the commercial marine industry," says Nautitool President **Stephen Rountree**, adding, "this tie-down will remain operational over long service periods, with minimal maintenance, in the harshest environments." The advantages of using 304SS stainless steel for marine ratchet tie-downs include reduced downtime and maintenance manpower costs along with increased safety and ROI over the long-term.



Circle 35 on Reader Service Card

Common Rail Pressure Transmitter from Danfoss

Danfoss A/S launched a new series of common rail pressure transmitters for measuring of pressure up to 3,000 bar in operating pressure. Through the use of a

micro-fused sensor technology, Danfoss introduces the MBS 6000. The new MBS 6000 common rail program is designed to withstand the harsh marine environment and is designed to be robust, while still compact.



Circle 36 on Reader Service Card

Weiler Offers Tiger Abrasive Flap Discs

Weiler Corporation offers its Tiger Disc line of abrasive flap discs for applications such as weld blending, grinding, deburring, deflashing, stock removal, and surface finishing. Tiger abrasive flap discs can be used to grind and finish

in one step. Tiger flap discs have increased durability and a longer lifespan, because as the Tiger Disc wears down, new abrasive grain is continuously exposed.



Circle 37 on Reader Service Card

ADVERTORIAL



ESAB 653E Weatherguard Provides Outstanding Multi-Process Performance in an

Environment-Resistant Package

ESAB's versatile 653E cvcc Weatherguard power source is a multi-process, three-phase power source designed for heavy-duty indus-

trial DC welding applications, including Mig, flux cored wire, submerged arc and stick electrode welding and air carbon arc gouging. Specially designed for harsh working environments such as shipbuilding, Weatherguard provides protection from damage caused by water, salt spray, metal dusts, corrosive mists and more.

This environment-resistant power source features an all-stainless steel base, frame and fasteners with side and top panels made from a non-corrosive, non-flammable, high impact composite. All power components, connec-

tors, terminals and support structures are covered with a durable clear protective coating. The control circuitry is enclosed and sealed against dirt, dust and moisture within an easy-access compartment.

Rated 650 amps at 44 Vdc, 100% duty cycle, the power source offers 230/460/575 Vac, 60 Hz operation with a 115 Vac auxiliary power outlet for water circulator or tools. It is compatible with 115 Vac and 42 Vac wire feeders.

Weatherguard is available as a power source unit or a ready-to-weld package supplied with ESAB's Mig 4HD wire feeder. Like all ESAB products, Weatherguard is backed by ESAB's exclusive 100% Satisfaction Guarantee.

For more information, contact us toll free at 1-800-ESAB-123 or online at www.esabna.com.

MobileMaster™ Wire Feeder Provides Reliable Performance in Harsh Environments

The MobileMaster IV Wire Feeder from ESAB is built to handle harsh environments such as construction sites, pipelines, shipyards, offshore applications, general fabrication and mobile welding rigs.

MobileMaster features a completely enclosed, impact-resistant case to protect the wire from dirt, metal grit, moisture and contaminants. The flame retardant, insulated molded composite plastic case is metal reinforced to withstand extreme abuse from drops, bumps, hot slag, grinding sparks, corrosive chemicals and more.

For more information, contact us toll free at 1-800-ESAB-123 or online at www.esabna.com.

Atom Arc® Sets the Standard for Covered Electrodes

The Atom Arc 7018 covered electrode from ESAB is the original iron powder, low hydrogen electrode produced in the United States and continues to be the standard to which all others are compared. Atom Arc 7018 electrodes achieve outstanding mechanical properties for welding carbon steels, high sulfur steels, enameling steels, and low alloy high tensile steels in all thicknesses. Atom Arc electrodes are used on practically every structure that is welded today and are especially useful for welding large oil storage tanks, nuclear plant parts, and critical weldments requiring the highest possible quality and reliability.

For more information, contact us toll free at 1-800-ESAB-123 or online at www.esabna.com.

Product of choice for plasma cutting.

Trust PowerCut® for Exceptional Cutting Value.

▶ Durable, weather resistant case for outdoor use

▶ Highest speeds and thickness capabilities in its price class

▶ Lowest cost per foot of cut in its price class

100% SATISFACTION GUARANTEE

When customers asked for a rugged, portable, powerful solution for manual plasma cutting, ESAB delivered with the PowerCut line. PowerCut comes out of the box ready to go with torch and power cord attached and filter/regulator installed. The long-life torch combines high performance with a simple design to yield better production rates and lower consumable costs – as much as half the cost of competitive equipment. Portable, durable and powerful, PowerCut is the ideal choice for rental fleet and construction site uses. A trusted partner of industry for 100 years, ESAB backs its products with a 100% Satisfaction Guarantee. **Ask for ESAB by name.**

Great things happen when you put us to work.

1.800.ESAB.123 www.esabna.com

ESAB Your Partner in Welding & Cutting Since 1904

WELDING | CUTTING | FILLER METALS

Circle 238 on Reader Service Card

BUYER'S DIRECTORY

This directory section is an editorial feature published in every issue for the convenience of the readers of MARITIME REPORTER. A quick-reference readers' guide, it includes the names and addresses of the world's leading manufacturers and suppliers of all types of marine machinery, equipment, supplies and services. A listing is provided, at no cost for one year in all issues, only to companies with continuing advertising programs in this publication, whether an advertisement appears in every issue or not. Because it is an editorial service, unpaid and not part of the advertisers contract, MR assumes no responsibility for errors. If you are interested in having your company listed in this Buyer's Directory Section, contact Mark O'Malley at momalley@marinelink.com

ACCOMMODATION LADDERS & GANGWAYS

Generon IGS, 11985 FM 529, Houston, TX 77041

AIR CONDITIONING & REFRIGERATION

Bailey Refrigeration, 4986-1 Euclid Road, Virginia Beach, VA 23462

Cospolich Refrigeration, 14695 Highway 61, Norco, LA 70079

RW Fernstrum, 1716 11th Avenue, Menominee, MI 49858, 9068635553, 9068635634,

seanf@fernstrum.com, Contact: Sean Fernstrum, www.fernstrum.com

Stork Bronswerk Inc., 3755 C Boul. Matte, Brossard, Quebec J4Y 2P4, Canada

AIRHORNS/SIGNALING EQUIPMENT

Airchime Manufacturing Co., 5478 267th St., Gloucester Industrial Estate., Langley, BC V4W 3S8, Canada

Kahlenberg Brothers Co., P.O. Box 358, Two Rivers, WI 54241

ALARMS, FACTORY-MUTUAL APPROVED

NREC Power Systems, 5222 Hwy 311, Houma, LA 70360

ALUMINUM BOATS

Island Boats, 6806 Highway 90 East, New Iberia, LA 70560

Metal Craft Marine Inc., 347 Wellington St., Kingston, Ontario K7K 6N7, Canada

Sea Ark Marine, P.O. Box 210, Monticello, AR 71655-0210

William E. Munson Co., 18130 Sunset Way, Edmonds, WA 98026

ANCHORS & CHAINS

GJ Wortelboer Jr. B.V., P.O. Box 5003, 3008 AA Rotterdam, Netherlands

ANTIFOULING

Hempel Coatings, 600 Conroe Park N. Dr. Conroe, TX 77303

ATTORNEYS

Gordon & Elias LP, 5821 SW Freeway Suite 422, Houston, TX 77057

AUCTIONEERS

Henderson Auctions, 13340 Florida Blvd., Livingston, LA 70754

AUTOPILOT SYSTEMS

AG Marine Inc., 5711 34th Avenue, Gig Harbor, WA 98335-8548

ComNav Marine Ltd., 13511 Crestwood Pl., Ste 15 15, Richmond, BC V6V 2G1, Canada

Mackay Communications, 2721 Discovery Dr., Raleigh, NC 27616-1851

BALLAST

Ballast Technologies, 4620 S. Coach Dr., Tuscan, AZ 85714

Redland Genstar Inc., Executive Plaza IV, Hunt Valley, MD 10912-1031

BEARING- RUBBER, METALLIC, NON-METALLIC

Cooper Bearing, 5795 Thurston Ave., Virginia Beach, VA 23455

Craft Bearing, 5000 Chestnut Ave., Newport News, VA 23605

Duramax Marine LLC, 17990 Great Lakes Parkway, Hiram, OH 44234, 440-834-5400, 440-834-4950,

Contact: Richard Spangler

Thordon Bearings, 3225 Mainway, Burlington Ontario L7M 1A6, Canada

BOATBUILDER

AMERICAN MARINE HOLDINGS GOVERNMENT SERVICES,

1838 Turnbull Lakes Drive, New Smyrna Beach, FL 32168

Blount Marine, 461 Water St., Warren, RI 02885

Gladding Hearn, 1 Riverside Ave., Somerset, MA 02725

Sea Ark Marine, P.O. Box 210, Monticello, AR 71655-0210

Washburn Doughty, P.O. Box 296, E. Boothbay, ME 04544

BOLLARDS

Maritime International, Inc., 204 Ida Rd., Broussard, LA 70518

BRIDGE SUNSCREENS

Martek Marine Blinds, Unit 46, Century Business Centre,

Maversway, Rotherham, South Yorkshire S63 5DA, UK

BROKERS

Merrill Marine Services, Inc., 7909 Big Bend Blvd,

Webster Groves, MO 63119, 800.394.6674, 800.230.5377 , pete@merrillmarine.com, Contact:

Peter C. Merrill , www.merrillmarine.com

BULKHEAD SEALS/PANELS

CSD North America, 880 Candia Rd., Unit 10,

Manchester, NH 03109

Thermax, 3115 Ränge Rd, Temple, TX 76501

CAD/CAM SYSTEMS

Autoship Systems Corp., 611 Alexander Street,

Suite 312, Vancouver, BC V6A 1E1, Canada, 604-254-4171, 604-254-5171, sales@autoship.com,

Contact: Ross Muirhead, www.autoship.com

Mapeco Products, 91 Willenbrock Rd., Unit B, Oxford, CT 06478

MMC International, 60 Inip Dr, Inwood, NY 11096

Creative Systems Inc., P.O. Box 1910, Port Townsend, WA 98368

CAPSTANS

Coastal Marine Equipment, 20995 Coastal Parkway,

Gulfport, MS 39503-9517, 228-832-7655, 228-832-7675, sales@coastalmarineequipment.com,

Contact: Ralph Waguespack, www.coastalmarineequipment.com

Superior Lidgerwood Mundy, 1101 John Ave., Superior, WI 54880

CARGO MANAGEMENT

Autoship Systems Corp., 611 Alexander Street,

Suite 312, Vancouver, BC V6A 1E1, Canada, 604-254-4171, 604-254-5171, sales@autoship.com,

Contact: Ross Muirhead, www.autoship.com

CARGO MONITORING & CONTROL SYSTEM

Hermatic Inc., 4522 Center St., Deerpark, TX 77536

CAST IRON REPAIR

In-Place Machining, 3811 N. Holton St., Milwaukee, WI 53212

CHAINS

G.J. Wortelboer, Postbus 5003, 3008 AA Rotterdam,

Netherlands

CLASSIFICATION SOCIETY

American Bureau of Shipping, 16855 N. Chase Drive, Houston, TX 77060

CLOSED CIRCUIT TELEVISION

Hernis Scan Systems A/S, Postboks 619, NO_4809 Arendal, Norway

CNC PLATE CUTTING

Advanced Fabricating Inc, PO Box 3721, Galveston, TX 77552

COATINGS/ CORROSION CONTROL/PAINT

Chugoku Marine Paints, P.O. Box 73, 4793, Netherlands

Ferro Corp., 1301 North Flora St., Plymouth, IN 46563

Flow International Corp., 23500 64th Ave., South Kent, WA 98059

Mascoat Products, 4310 Campbell Rd, Houston, TX 77041

Mr.Longarm, Inc., P.O.BOX 377, Greenwood, MO 64034-0377

NAPASCO, INC., 213 Main Project Road, Shriever, LA 70395, 985-449-0730, 985-449-0740,

napasco@napasco.com, Contact: Pam Bartell,

www.napasco.com

Sherwin Williams, 101 Prospect Ave., Cleveland, OH 44115

Sigma USA, P.O. Box 816, Harvey, LA 70059

Soken Trade Corp./Noxudol, 15934 S. Figueroa Street, Gardena, CA 90248

COMMUNICATIONS

Inmarsat Ltd, 99 City Rd., London EUY 1AX, UK

L-3 Communications, 6000 Fruitville Road, Sarasota, FL 34232

Mackay Communications, 2721 Discovery Dr., Raleigh, NC 27616-1851

Pipeline Communications and Technology, Inc., 2800 Woodlawn Dr. Ste. 264, Honolulu, HI 96822

World-Link Communications, 74 Main St., Framingham, MA 01701

Xantix, PO Box 30012, 2500 GA The Hague, Netherlands

COMPOSITE SHAFTS

Centa Corp., 815 Black Hawk Drive, Westmont, IL 60559, 630-734-9600, 630-734-9669,

bobl@centacorp.com

COMPUTER/ COMPUTER SOFTWARE

Creative Systems Inc., P.O. Box 1910, Port Townsend, WA 98368

ShipConstructor, 304-3960 Quadra Street, Victoria, BC V8X 4A3, Canada

Spec Tec , Professor Koth's Vey, 1366 Lysaker, Norway

CONSOLE- QMDSS

Mackay Communications, 2721 Discovery Dr., Raleigh, NC 27616-1851

CONSULTANTS

Captain R.J. Underhill & Associates, P.O. Box 1030, Groves, TX 77619

Elliot Bay Design Group, 5301 Shishole Ave. NW, Ste. 200, Seattle, WA 98107

Hornblower Marine Services, P.O. Box 112476, Campbell, CA 95011-2476

CONTROL SYSTEM-MONITORING/STEERING

Amot Controls, 8640 N. Eldridge Parkway, Houston, TX 77041

Electronic Marine Systems, 800 Femdale Pl., Rahway, NJ 07065

Electrowave U.S.A., 6125 W. Sam Houston Pkwy., Ste 406, Houston, TX 77041

G.R. Bowler, 2261 Lake Rd., Ontario, NY 14519

Kobelt Manufacturing Co., Ltd., 8238-129 Street, Surrey, BC V3W0A6, Canada

L-3/TANO-EDI, 759 Hill Street, New Orleans, LA 70121, 504-831-9800, 504-833-4119, guy.hardwick@l-3com.com

MMC International, 60 Inip Dr, Inwood, NY 11096

Prime Mover Controls, 3600 Gilmore Way, Burnaby, BC V5G 4R8, Canada

Totem Plus Ltd, P.O. Box 164 , Herzliya 46100, Israel

CORROSION CONTROL

Apex Engineering Products, 1241 Shoreline Dr., Aurora, IL 60504

Furuno USA Inc., 4400 NW Pacific Rim Blvd, Camas, WA 98607

Ultra Strip, 3515 SE Lionel Terrace , Stuart, FL 34996

COUPLERS- TUG & BARGE

Intercontinental Engineering , PO Box 9055 , Kansas City, MO 64168

COUPLINGS

American Vulkan, 2525 Dundee Rd, Winter Haven, FL 33884

Centa Corp., 815 Black Hawk Drive, Westmont, IL 60559, 630-734-9600, 630-734-9669,

bobl@centacorp.com

Mapeco Products, 91 Willenbrock Rd., Unit B, Oxford, CT 06478

MMC International, 60 Inip Dr, Inwood, NY 11096

CRANE - HOIST - DERRICK - WHIRLEYS

Davit Sales, PO B0x 232, Jefferson Valley, NY 10536

E. Crane, 241 Executive Dr. #3, Marion, OH 43302

CRANE TESTING

Imes Inc., 5139 Brook Street Suite E, Mont Claire, CA

CRANKSHAFT REPAIR

In-Place Machining, 3811 N. Holton St., Milwaukee, WI 53212

Walz & Krezner, 91 Willenbrock Rd., Oxford, CT 06478

CUTTING & WELDING MACHINES

Bug-O-Systems, 3001 W. Carson St., Pittsburgh, PA 15204

ESAB Cutting Systems, 411 South Ebenezer Road, Florence, SC 29501

DECK MACHINERY- CARGO HANDLING EQUIPMENT

Allied Shipbuilders Ltd., 1870 Harbour Road, Vancouver V7H 1A1, Canada

Burrard Iron Works Ltd., 220 Alexander Street, Vancouver, BC V6A 1C1, Canada, 604-684-2491, 604684-0458, sales@burrardironworks.com

Coastal Marine Equipment, 20995 Coastal Parkway, Gulfport, MS 39503-9517, 228-832-7655, 228-832-7675, sales@coastalmarineequipment.com, Contact: Ralph Waguespack, www.coastalmarineequipment.com

Davit Sales, PO B0x 232, Jefferson Valley, NY 10536

Global Incorporated, P.O. Box 24, 160 Cannery Road, Somerset, PA, PA 15501

Intercontinental Engineering , PO Box 9055 , Kansas City, MO 64168

Markey Machinery, P.O. Box 24788, Seattle, WA 98124

Nabrico Marine Products, 1050 Trinity Road, Ashland City, TN 37016

Norwegian Maritime Equipment AS, BOX 244, NO-5480 HUSNES, Norway

Rapp Hydema, 4433 27th Ave. West, Seattle, WA 98199, (206) 286-8162, (206) 286-3084,

scotta@rappus.com

Skookum , P.O. Box 280, Hubbard, OR 97032

Smith Berger Marine, 7915 10th Ave. S., Seattle, WA 98108

Superior Lidgerwood Mundy, 1101 John Ave., Superior, WI 54880

W.W. Patterson, Inc, 3 Riversea Rd, Pittsburgh, PA 15223

DESALINATION - REVERSE OSMOSIS

Reverse Osmosis of S.F., Inc., 150 SE 29th Street, Ft. Lauderdale, FL 33316

Reverse Osmosis of South Florida, Inc., 150 S.E. 29th St., Fort Lauderdale, FL 33316

DESIGN PUBLICATIONS

SNAME, 601 Pavonia Ave, Jersey City, NJ 07306

DIESEL ENGINE OVERHAUL

Detroit Diesel Corporation, 13400 Outer Drive West, Detroit, MI 48329-4001

Motor-Services Hugo Stamp, 3101 S.W. 3rd Ave., Ft. Lauderdale, FL 33315

DIESEL ENGINE- SPARE PARTS & REPAIR

Chris Marine AB, Box 9025, 200 39 Malmo, Sweden

Cummins Marine, 4500 Leeds Ave., Ste 301, Charleston, SC 29405

Man B&W Diesel, 17 State St., NY, NY 10004

Man B&W Diesel A/S, Telgiholmsgade 41, Copenhagen SV DK-2450, Denmark

Man B&W Diesel AG, Stadtbachstrasse 1, Augsburg D-86153, Germany

Marine Exhaust Systems of Alabama, P.O. Box 698, 757 Nichols Ave., Fairhope, AL 36533

Marine Turbo & Diesel Inc., 1090 7th St., Richmond, CA 94801

Motor-Services AB, Box 2115 , Ronninge S- 144 04, Sweden

Motor-Services Hugo Stamp, 3101 S.W. 3rd Ave., Ft. Lauderdale, FL 33315

Scardana Americas Bkg., 502 Empire St. , Greenfield Park J4V 1V7, Canada

Wartsila Diesel, 201 Defense Hwy, Annapolis, MD 21401

DIESEL FUEL DECONTAMINATION

Algae X International, P.O. Box 4011, Fort Myers Beach, FL 33932

DIESEL FUEL INJECTORS

Interstate Diesel, 4901 Lakeside Avenue, Cleveland, OH 44114-3996, 800-321-4234, 216-881-0805

DIGITAL TORQUE METER SYSTEMS

Instruments, Computers & Controls, 78 Londonderry Tpke, Hookset, NH 03106

DISPLAY TECHNOLOGY

Barco Simulation, 600 Bellbrook Avenue, Xenia, OH 45385

DOOR LOCKS

The Brass Works Inc., P.O. BOX 566, DeLand, FL 32721, 386-943-8857, 386-943-8810,

info@marinedoorandcabinhardware.com

DOORS- MARINE & INDUSTRIAL

Joiner Systems, 1925 52nd Avenue, Lacine, Quebec H8T 3C3, Canada

Juniper International, 72-15 Metropolitan Ave., Middle Village, NY 11379

Manly Marine, P.O. Box 86788, N. Vancouver, BC V7L 4L3, Canada

Mapeco Products, 91 Willenbrock Rd., Unit B, Oxford, CT 06478

Walz & Krezner, 91 Willenbrock Rd., Oxford, CT 06478

DRAFT INDICATORS

King Engineering, PO BOX 1228, Ann Arbor, MI 48108-1625, 734-662-5691, 734-662-6652,

marine@king-gage.com, Contact: Mike Welch, www.king-gage.com

DRILLS

Anchor Lamina, 38565 Country Club Drive, Farmington Hills, MI 48331

DRIVES

Allied Systems, 2300 Oregon St., Sherwood, OR

DRIVESHAFTS

The Cline Company, 600 Buncombe St., Greenville, SC 29602

DRUG TEST KITS

Sun State Specialty K-9s, 1500 Beville Road, Daytona Beach, FL 32114

EDUCATION

DM Consulting, 12316 Dormouse Road, San Diego, CA 92129, 858-705-0780, 858-538-5372, jstiglich@aol.com

HOISTS

Coastal Marine Equipment, 20995 Coastal Parkway, Gulfport, MS 39503-9517, 228-832-7655, 228-832-7675, sales@coastalmarineequipment.com, Contact: Ralph Waguespack, www.coastalmarineequipment.com

HORNS/WHISTLES

Airchime Manufacturing Co., 5478 267th St., Gloucester Industrial Estate., Langley, BC V4W 3S8, Canada
Kahlenberg Brothers Co., P.O. Box 358, Two Rivers, WI 54241

HOSES/HOSE FITTINGS

JGB Enterprises, Inc., 115 Metropolitan Dr., Liverpool, NY 13088

HVAC

Jamestown Metal Marine Sales, Inc., 4710 Northwest 2nd. Ave., Boca Raton, FL 33431
QCJ Marine, 6754 Willowbrook Park Drive, Houston, TX 77066

HYDRAULIC SYSTEMS

Anchor Lamina, 38565 Country Club Drive, Farmington Hills, MI 48331

IMAGING EQUIPMENT

EMX, Inc., 4200 Dow Road, Suite C, Melbourne, FL 32934

INFRARED IMAGING EQUIPMENT

Fir Systems, 16505 SW 72ND AVE, Portland, OR 97224

INSPECTION EQUIPMENT

Staveley Instrument, 421 N. Quay St., Kennewick, WA 99336

INSULATION

Superior Energies Inc., 3115 Main Ave., Groves, TX 77619

INSURANCE SERVICES

WQIS, 80 Broad St., 21st Floor, New York, NY 10004

INTERIORS

Jamestown Metal Marine Sales, Inc., 4710 Northwest 2nd Ave., Boca Raton, FL 33431
Lit Industries, 516 Costner School Rd., Bessemer City, NC 28016-9801

QCJ Marine Offshore, 6754 Willowbrook Park Dr, Houston, TX 77066, 281 885 1300, 281 885 1349, Lbobbitt@qcmarine.com, Contact: Larry Bobbit, www.qcmarine.com

JOINER- WATERTIGHT DOOR-PANELING-CEILING SYSTEM

Joiner Systems, 1925 52nd Avenue, Lacine, Quebec H8T 3C3, Canada
Walz & Krezner, 91 Willenbrock Rd., Oxford, CT 06478

K-9 DETECTION

Sun State Specialty K-9s, 1500 Beville Road, Daytona Beach, FL 32114

KEEL COOLERS

Duramax Marine LLC, 17990 Great Lakes Parkway, Hiram, OH 44234, 440-834-5400, 440-834-4950, Contact: Richard Spangler

RW Fernstrum, 1716 11th Avenue, Menominee, MI 49858, 9068635553, 9068635634, seanf@fernstrum.com, Contact: Sean Fernstrum, www.fernstrum.com

LASER ALIGNMENT

Ludeca, Inc., 1425 NW 88th Ave, Miami, FL 33172

LEAK REPAIR

Indumar Products Inc., 2500 Tanglewilde, Suite 260, Houston, TX 77063

LIFEBOAT TESTING

Imes Inc., 5139 Brook Street Suite E, Mont Claire, CA
Water Weights, Inc., 5139 Brook St., Ste E, Mont Clare, CA 91763

LIFEBOATS/RAFTS

DBC Marine Safety Systems, 101-3760 Jacombs Rd., Richmond, BC V6V 6T3, Canada
Viking Life Saving Equipment, 1400 NW159th Street Suite 101, Miami, FL 33169
Willard Marine Inc., 1250 N. Grove St., Anaheim, CA 92806
Wolong International, 151 Chin Swee Road #03-14, Manhattan House, 169876, Singapore

LIFESAVING EQUIPMENT

C.M. Hammar AB, August Barks Gatan 15, 421 32 Vastra Frolunda, Sweden
Stearns Manufacturing Comapny, P.O. Box 1498, St. Cloud, MN
Viking Life Saving Equipment, 1400 NW159th Street Suite 101, Miami, FL 33169

LIFT EQUIPMENT TESTING

Water Weights, Inc., 5139 Brook St., Ste E, Mont Clare, CA 91763

LIGHTING SYSTEMS/ EQUIPMENT

ACR Electronics Inc., 5757 Ravenswood Rd., Ft. Lauderdale, FL 33310-5247
L.C. Doane, P.O. Box 975, Essex, CT 06426
Maritime Associates, P.O. BOX 1788, Crystal Bay, NV 89402, 775-832-2422, 775-832-2424, maritimeas@charter.net

LINE & NET CUTTERS

Spurs Marine, 201 S.W. 33rd St., Ft. Lauderdale, FL 33315

LUBRICANTS/LUBRICATION SYSTEMS

Benjamin R. Vickers & Sons Ltd., Airedale Mills, 6 Clarence Road, Leeds, W. Yorkshire LS10 IND, UK

MACHINERY MAINTENANCE, REPAIR & TESTING

Mackay Communications, 2721 Discovery Dr., Raleigh, NC 27616-1851

MANEUVERING EQUIPMENT

Schottel GMBH & Co. KG, Mainzer Str 99, D-56322-Spay/Rhine, Germany

MARINE DECKING & FLOORING

Lonseal Flooring, 928 East 238th Street, Carson, CA 90745

MARINE ELECTRONICS

ACR Electronics Inc., 5757 Ravenswood Rd., Ft. Lauderdale, FL 33310-5247
GMT Electronics, 171 Main St., South River, NJ 08882
Hatteland Display, Bogstadveien, 19, N-0355 Oslo, Norway
Jotron Electronics, Box 85, NO-3280T Jodalynng Norge, Norway
Marine Electronic Solutions, 1522 Crabapple Cove, Jacksonville, FL 32225

Reson Inc., 100 Lopez Road, Goleta, CA 93117
Saab Marine Electronics, Box 13045, 402 5Goteborg, Sweden

MONITORING

Maritek Marine Ltd., Century Business Park Manvers Way, Rotherham, South Yorkshire S60 5DA, UK

MARINE ENGINEERING

Elliot Bay Design Group, 5301 Shishole Ave. NW, Ste. 200, Seattle, WA 98107

MARINE EQUIPMENT

Scardana Americas Bkg., 502 Empire St., Greenfield Park J4V 1V7, Canada

Tidewater Skanska, Inc., PO Box 57, Norfolk, VA 23501, 757-547-2153, 757-547-4806, sbj@tidewaterskanska.com

Waterman Supply, P.O. Box 596, Wilmington, CA 90748

MARINE FURNITURE

Deansteel Mfg., 111 Merchant St., San Antonio, TX 78204

MARINE HARDWARE

HMS Marine Hardware, 333 W. Merrick Road, Valley Stream, NY 11580-5219

MARINE MANAGEMENT

Hornblower Marine Services, P.O. Box 112476, Campbell, CA 95011-2476

MARINE POWER PLANT SYSTEMS

Auramarine Ltd., Box 849, FI-20101 Turku, Finland

MARITIME TRAINING & SCHOOLS

Marine Safety International, Marine Terminal, Laguardia Airport, NY 11371

MONITORING SYSTEMS

Governor Control Systems, 3101 SW 3rd Avenue, Ft. Lauderdale, FL 33315
Mackay Communications, 2721 Discovery Dr., Raleigh, NC 27616-1851

Michael J. Erland, 7001 Flewlynn Rd, Ottawa, Ontario K2S 1B6, Canada

Prime Mover Controls, 3600 Gilmore Way, Burnaby, BC V5G 4R8, Canada

Reson Inc., 100 Lopez Road, Goleta, CA 93117

MOORAGE FACILITY

Sea Ark Marine, P.O. Box 210, Monticello, AR 71655-0210

MOTOR PROTECTION

Marine Safe Electronics, 261 Millway Ave. #12, Concord, Ontario L4K 4K9, Canada

NAMEPLATES AND PLACARDS

Horizons ISG, 18531 South Miles Road, Cleveland, OH

NAV/COMM EQUIPMENT

C- Map Commercial, 133 Falmouth Rd, Mashpee, MA 02649
Chartco, New North Road, Hainault, Ilford Essex E16 2UR, UK
Electronic Marine Systems, 800 Ferndale Pl., Rahway, NJ 07065
Furuno USA Inc., 4400 NW Pacific Rim Blvd, Camas, WA 98607
Mackay Communications, 2721 Discovery Dr., Raleigh, NC 27616-1851

NAVAL ARCHITECTS, MARINE ENGINEERS

A.K. Suda, Inc., 3004 19th St., Metairie, LA 70002-4989
Aker Marine, 1818 CORNWALL AVE, VANCOUVER, BC V6J 1C7, Canada
Band, Lavis, & Associates, Inc., 900 Ritchie Hwy, Suite 203, Severna park, MD 21146
Bay Engineering, 253 N. First Ave., Sturgeon Bay, WI 54235
BMT Fleet Technology, 311 Legget Dr, Kanata, ON K2K 1ZB, Canada
Bristol Harbor Group, Inc., 103 Poppasquash Rd., Bristol, RI 02809
C. Baxter & Associates, P.O. Box 9006, Mobile, AL 36609
CDI Marine Co., 9550 Regency Square Blvd, Ste 400, Jacksonville, FL 32222
Computer Sciences Corporation-Advance Marine Center, 1201 M St. SE., Washington, DC 20003
Elliot Bay Design Group, 5301 Shishole Ave. NW, Ste. 200, Seattle, WA 98107
Jamestown Marine Services, Inc., 1084 Shennecossett Road, Groton, CT 06340
JMS Naval Architects & Salvage Engineers, 1084 Shennecossett Rd., Groton, CT 06340, 860-448-4850, 860-448-4857, jms@jmsnet.com, Contact: Blake Powell, VP, www.jmsnet.com
John J. McMullen Associates, 4300 King St., Suite 400, Alexander, VA 22302
John W. Gilbert Associates, 75 Terry Drive, Suite 200, Hingham, MA 02043
Kvaerner Masa Marine Inc., 201 Defense Highway, Ste 202, Annapolis, MD 21401
MCA Engineers, Inc., 2960 Airway Ave., #A-103, Costa Mesa, CA 92626
MIL Systems, 200-1150 Morrison Drive, Ottawa, Ontario K2H 8S9, Canada
Nautical Designs, Inc., 2101 S. Andrews Ave., Ste 202, Fort Lauderdale, FL 33316
The Glosen Associates Inc., 600 Mutual Life Bldg., 605 First Ave., Seattle, WA 98104
Vizag marine Consultants, 8913 Riverview Park Drive, Raleigh, NC 27613
VUYK Engineering, P.O. Box 204, 9700 AE Groningen, Netherlands
Washburn Doughty, P.O. Box 296, E. Boothbay, ME 04544

AG Marine Inc., 5711 34th Avenue, Gig Harbor, WA 98335-8548
ComNav Marine Ltd., 13511 Crestwood Pl., Ste 15 15, Richmond, BC V6V 2G1, Canada
D & B Technologies, 1458 OCEAN SHORE BLVD #132, ORMOND BEACH, FL 32176-3613
Nauticast AG, Mariahilfer Strasse 50/211, A-1070 Vienna, Austria

Donjon Marine, 1250 Liberty Avenue, Hillside, NJ 07205

Alfa -Laval Separation, Inc., 955 Meams Rd., Warminster, PA 18974

MMC International, 60 Inip Dr, Inwood, NY 11096

Mr. Longam, Inc., P.O.BOX 377, Greenwood, MO 64034-0377

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

Inventory Locator Service, 8001 Centerview Parkway Suite 400, Memphis, TN 38018, 901-794-5000, 901-794-1760, ppush@ilsmart.com

PIPE FITTINGS/CUTTINGS/CONNECTING/ SYSTEMS

Jesse Engineering, 5225 7th St., E. Tacoma, WA 98424, 253-922-7433, 253-922-2536, tmorgan@jesse-wallace.com
RAMCO Manufacturing Co., 365 Carnegie Ave., Kenilworth, NJ 07033

PIPE LEAK REPAIR

CSA North America, 880 Candia Rd., Unit 10, Manchester, NH 03109

PNEUMATIC LINE THROWERS

Restech Norway A/S, Box 624, NO-8001 BODO, Norway

PORT DEVELOPMENT

Sasakura Engineering, 7-32 Takeshima, 4-Chome, Nishiyodogoa KY Osaka555, Japan

PORTABLE FOAM APPLICATORS

IMSSCO Corporation, 2040 Harbor Island Drive, Ste. 201 A, San Diego, CA 92101

PORTABLE VENTILATORS

Americ Corp, 785 Bonnie Lane, Elk Grove Village, IL 60007

PREVENTATIVE MAINTENANCE

Marine Safe Electronics, 261 Millway Ave. #12, Concord, Ontario L4K 4K9, Canada

PROPULSION EQUIPMENT

ABB Turbocharger, Inc., 1460 Livingston Ave., North Brunswick, NJ 08902

Alstom Power Conversion, 3 Ave. Des Trois Chenes, 90018 Belfort Cedex, France

Brunvold A/S, P.O. Box 370, N-6401 Molde, Norway
Cummins Marine, 4500 Leeds Ave., Ste 301, Charleston, SC 29405

CWF Hamilton Co., P.O. Box 709, Christchurch, New Zealand
Fincanteri, Diesel Engine Div., GMT, Bagnoli della, Rosandra 3334 Trieste, Italy

Harbormaster Marine, Inc., 31777 Industrial Rd., Livonia, MI 48150

Karl Senner Inc., 25 W Third, Kenner, LA 70062

Kawasaki Heavy Indust., World Trade Center Bldg., 4-1 Hamamatsu-cho, 2-chome, Minato-ku Tokyo 105-6116, Japan

L.A.M.E Srl, Marine Division, Via della Fornace 4, Opera (MI), Italy

Man B&W Diesel, 17 State St., NY, NY 10004
Man B&W Diesel A/S, Telgholmsgade 41, Copenhagen SV DK-29405, Denmark

Man B&W Diesel AG, Stadtbachstrasse 1, Augsburg D-86153, Germany

Mapeco Products, 91 Willenbrock Rd., Unit B, Oxford, CT 06478

Markisches Werk Halver GmbH, Box 1355, Halver D-58543, Germany

Napier Turbochargers, P.O. Box 1, Waterside, South Lincoln LN5 7FD, UK

Nya Berg Propulsion AB, Box 1005, 430 90 Ockero, Sweden
Philadelphia Resins, P.O. Box 309, Montgomeryville, PA 18936

Rolls-Royce Commercial Marine, 10255 Richmond Ave., Ste 101, Houston, TX 77042

Schottel GMBH & Co. KG, Mainzer Str 99, D-56322-Spay/Rhine, Germany

Ultra Dynamics Marine, LLC, (UltraJet), 1110A Claycraft Road, Columbus, OH 43230

Voith Schiffstechnik GMBH & Co., P.O. Box 2011, 89510 Heidenheim, Germany

Wartsila Corporation, Box 244, FI-65101 Vasa, Finland
Wartsila Lips, 3617 Koppens Way, Chesapeake, VA 23323

ZF Marine Group, Ehlerst. 50, 88046 Friedrichshafen, Germany

PROPULSION MONITORING

Azonix-Dynalco, 3690 NW 53rd St., Ft. Lauderdale, FL 33309

PUMP-REPAIR-DRIVES

Scardana Americas Bkg., 502 Empire St., Greenfield Park J4V 1V7, Canada

PUMPS

Mack Boring & Parts Company, 2365 Rout 22, Union, NJ 07083

RADARS-ARPS

Furuno USA Inc., 4400 NW Pacific Rim Blvd, Camas, WA 98607

REFUELING EQUIPMENT

Global Incorporated, P.O. Box 24, 160 Cannery Road, Somerset, PA, PA 15501

REMOTELY OPERATED VEHICLES

VideoRay LLC, 415 Engleview Blvd., Exton, PA 19341

RIGID INFLATABLE BOATS

Willard Marine Inc., 1250 N. Grove St., Anaheim, CA 92806

ROPE-MANILA-NYLON-HAWSERS-FIBERS

Marlow Ropes, South Road, Halisham, East Sussex BN27 3JS, UK

ROTATING EQUIPMENT

Seatworthy, 22 Main Street, Centerbrook, CT 06409

RUDDER BEARINGS & BUSHES

Duramax Marine LLC, 17990 Great Lakes Parkway, Hiram, OH 44234

Orkot Composites, 2535 Prairie Rd, Unit D., Eugene, OR 97402
Thorndon Bearings, 3225 Mainway, Burlington Ontario L7M 1A6, Canada

SAFETY PRODUCTS

Brookdale International, 1-8755 Ash St., Vancouver, BC V6P 6T3, Canada

D & B Technologies, 1458 OCEAN SHORE BLVD #132, ORMOND BEACH, FL 32176-3613, 407-647-7500, 407-647-7505, HOTEYE@HOTEYENOW.COM

DBC Marine Safety Systems, 101-3760 Jacombs Rd., Richmond, BC V6V 6T3, Canada

Lailizas SA, 21 Haidarou St., 545 Piraeus, Greece
Norwegian Maritime Equipment AS, BOX 244, NO-5480 HUSNES, Norway

Stearns Manufacturing Comapny, P.O. Box 1498, St. Cloud, MN
Stearns Mfg. Co., PO Box 1498, St. Cloud, GA 56302-1498

Viking Life Saving Equipment, 1400 NW159th Street Suite 101, Miami, FL 33169

Walport USA, 39-5A Dover Rd South, Toms River, NJ 08757

Western Fire & Safety, 2446 NW Market Street, Seattle, WA 98107

SALVAGE

American Salvage Association, 801 North Quincy Street, Arlington, VA 22203

Donjon Marine, 1250 Liberty Avenue, Hillside, NJ 07205
Titan Maritime Industries Inc., P.O. Box 350485, Ft. Lauderdale, FL 33004

SALVAGE ENGINEERS

Jamestown Marine Services, Inc., 1084 Shennecossett Road, Groton, CT 06340

SANITATION DEVICE- POLLUTION CONTROL

SHIPYARDS

Alabama Shipyard, P.O. Box 3202, Mobile, AL 36652
Atlantic Marine, Inc., P.O. Box 3202, mobile, AL 36652
Derektor Shipyard, 311 E. Boston Post Rd., Mamaroneck, NY 10543
Detyens Shipyards Inc., 1670 Drydock Ave., Bldg 236, North Charleston, SC 29450
Leevac Industries, LLC, P.O. Box 1190, Jennings, LA 70546
Offshore Inland, 3521 Brookdale Dr. S., Mobile, AL 36618
United Defense, 1525 Wilson Blvd., Ste 700, Arlington, VA 22209-2444

SIGNS & LABELS

Horizons ISG, 18531 South Miles Road, Cleveland, OH

SILENCERS

EM Products & Cowi Silencer Div. Phillips and Temro Ind., 5380 Cottonwood Lane, Prior Lake, MN 55372, (952) 226-8105, (952) 440-3400, hentig@phillipsandtemro.com, Contact: Bob Hentig, Sales Mgr. Marine Products, www.phillipsandtemro.com
Silex Inc., 6659 Ordan Dr., Mississauga, ON L5T 1K6, Canada

SILICON BRONZE

Atlas Metal Sales, 1401 Umatilla St., Denver, CO 80204, 800-662-0143, 303-623-3034, jsimms@atlasmetal.com, Contact: Jerry Simms, www.atlasmetal.com

SIMULATION TRAINING

Barco Simulation, 600 Bellbrook Avenue, Xenia, OH 45385
Calhoun MEBA Engineering School, 27050 St. Michaels Road, Easton, MD 21601
Marine Safety International, Marine Terminal, Laguardia Airport, NY 11371
Maritime Institute of Technology, 5700 Hammonds Ferry Rd., Linthicum Heights, MD 21090
Poseidon Simulation AS, Box 89, NO-8370 Leknes, Norway
Transas Marine Overseas Ltd., 12 Obukhovskoy, Oboron, St. Petersburg 193019, Russian Federation

SLIDING DOORS

Walz & Krezner, 91 Willenbrock Rd., Oxford, CT 06478

SOFTWARE

Creative Systems Inc., P.O. Box 1910, Port Townsend, WA 98368

Design Maintenance Systems, Inc, 340 Brooksbank Ave, Ste.100, North Vancouver, BC VTJ 2C1, Canada
Loadmaster International, St. Varvsgraven 11B SE, 211 19 Malme, Sweden
Pipeline Communications and Technology, Inc., 2800 Woodlawn Dr. Ste. 264, Honolulu, HI 96822
Resurgence Software Inc., 2021 Lakeshore Dr., Ste 21D, New Orleans, LA 70122

STEERING GEARS/ STEERING SYSTEMS

Jastram Engineering, 467 Mountain Hwy, North Vancouver, BC V7J 2L3, Canada
Kobelt Manufacturing Co., Ltd., 8238-129 Street, Surrey, BC V3W0A6, Canada
Offshore Inland, 3521 Brookdale Dr. S., Mobile, AL 36618

STERN TUBE BEARINGS/ BUSHES

Duramax Marine LLC, 17990 Great Lakes Parkway, Hiram, OH 44234, 440-834-5400, 440-834-4950, Contact: Richard Spangler

Orkot Composites, 2535 Prairie Rd, Unit D, Eugene, OR 97402
Thordon Bearings Inc., 3225 Mainway, Burlington, Ontario L7M 1A6, Canada

STERN TUBE SEALS

Superbolt, PO Box 683, Carnegie, PA 15106

STRAINERS

Hellan Strainer, 3249 East 80th St., Cleveland, OH 44104

SURFACE PREP TOOLS

Aurand Mfg., 1210 Ellis St., Cincinnati, OH 45223
Flow International Corp., 23500 64th Ave., South Kent, WA 98059

SURVIVAL EQUIPMENT

Brookdale International, 1--8755 Ash St., Vancouver, BC V6P 6T3, Canada

TANK LEVELING INDICATORS

Ian Conrad Bergan, 3119 North Davis Highway, Pensacola, FL 32503, 850-434-1286, 850-434-1246, sales@icbergan.com, Contact: Ron Monell, www.icbergan.com

Ian-Conrad Bergan, 3119 North Davis Highway, Pensacola, FL 32503, 850-434-1286, 850-434-1246, sales@icbergeb.com, Contact: Ron Monell

King Engineering Co, PO Box 1228, Ann Arbor, MI 48106

Saab Marine Electronics, Box 13045, 402 5Goteborg, Sweden
Technical Marine Service, Inc., 6040 North Cutter Circle, Suite 302, Portland, OR 97217-3956

TESTING SERVICES

BMT Fleet Technology, 311 Leggett Dr, Kanata, ON K2K 1ZB, Canada
Wyle Laboratories, 7800 Govern's Dr. S.W., Huntsville, AL 35807

THRUSTER SYSTEMS

Omnithruster, 2201 Pinnacle Parkway, Twinsburg, OH 44087, 330-963-6310, 330-963-6325, widmer@omnithruster.com, Contact: Kurt Widmer, www.omnithruster.com

TOWING EQUIPMENT

Allied Shipbuilders Ltd., 1870 Harbour Road, Vancouver V7H 1A1, Canada

TRAINING

Calhoun MEBA Engineering School, 27050 St. Michaels Road, Easton, MD 21601

DM Consulting, 12316 Dormouse Road, San Diego, CA 92129, 858-705-0780, 858-538-5372,

jestiglich@aol.com

International Maritime Training, 910 SE 17th St., Ste 200, Fort Lauderdale, FL 33316

LSI Lockmaster Security, 1044 S. Main Street, Nicholasville, KY 40356

Massachusetts Maritime Academy, 101 Academy Drive, Buzzards Bay, MA 02532

SUNY Maritime College, 6 Pennyfield Ave, Bronx, NY 10465-4198
USMMA- Global Maritime and Transportation School, 300 Steamboat Rd., Kings Point, NY 11024

TRANSMISSIONS

Karl Senner Inc., 25 W Third, Kenner, LA 70062

TRAVEL SERVICES

Griffin Americas, 3648 Greenbriar Drive, Houston, TX 77098

TURBOCHARGERS

ABB Turbo Systems AG, CH 5401, Baden, Switzerland

TURBOCHARGERS- REPAIRS

Motor-Services Hugo Stamp, 3101 S.W. 3rd Ave., Ft. Lauderdale, FL 33315
Napier Turbochargers, P.O. Box 1, Waterside, South Lincoln LN5 7FD, UK

ULTRASONIC TESTING

M.A.C.E. 5910 NE 15th Ave., Fort Lauderdale, FL 33331
Panametrics-NDT, 18 Woerd Avenue, Waltham, MA 02453

UNDERWATER SURVEILLANCE SONAR

C-Tech LTD, P.O.Box 1960, Cornwall Ontario K6H6N7, Canada

VACUUM TOILET SYSTEM

Envirovac Inc, 1260 Turret Dr., Rockford, IL 61111
Jets Vacum Sewage System, P.O. Box 14, N-6060 Hareid, Norway

VALVE ACTUATORS

EIM Controls, 13840 Pike Road, Missouri City, TX 77489

VALVES & FITTINGS

Leslie Controls, 12501 Telecom Dr., Tampa, FL 33637

VENTILATION SYSTEMS / PRODUCTS

Delta T Systems, 858 West 13th Court, Riviera Beach, FL 33404

Dry Air Technology, 313 North Oak St., Burlington, VA 88233

VIBRATION ANALYSIS

Ludeca, Inc., 1425 NW 88th Ave, Miami, FL 33172
Maritech, LLC, 100 Powermill Rd., Acton, MA 01725

VISCOMETERS

Cambridge Applied System, 196 Boston Ave., Medford, MA 02155

VOYAGE DATA RECORDERS

Rutter Technologies Inc., 22 Pearl Place, P.O.BOX 427, St. John's NL A1C 5N8, Canada

WASTE WATER TREATMENT

RWO, Leerkampe 3, D- 28259 Bremen, Germany
Severn Trent Da Nora, LLC, 1110 Industrial Boulevard, Sugar Land, TX 77478

WATER JET CLEANING

Flow International Corp., 23500 64th Ave., South Kent, WA 98059

Gardner Denver Water Jetting Systems, 12300 N. Houston Rosslyn Road, Houston, TX 77086

WATER PURIFIERS

Alfa -Laval Separation, Inc., 955 Meams Rd., Warminster, PA 18974

Gardner Denver Water Jetting Systems, 12300 N. Houston Rosslyn Road, Houston, TX 77086

Offshore Marine Labs, 2000 West 135th St, Gardena, CA 90249

Reverse Osmosis of S.F., Inc., 150 SE 29th Street, Ft. Lauderdale, FL 33316

Reverse Osmosis of South Florida, Inc., 150 S.E. 29th St., Fort Lauderdale, FL 33316

WATERTIGHT CLOSURES

Walz & Krezner, 91 Willenbrock Rd., Oxford, CT 06478

WINCH MANUFACTURER

Burrard Iron Works Ltd., 220 Alexander Street, Vancouver, BC V6A 1C1, Canada, 604-684-2491, 604-684-0458, sales@burrardironworks.com

WINCHES & FAIRLEADS

Allied Systems, 2300 Oregon St., Sherwood, OR
Coastal Marine Equipment, 20995 Coastal Parkway, Gulfport, MS 39503-9517, 228-832-7655, 228-832-7675, sales@coastalmarineequipment.com, Contact: Ralph Waguespack, www.coastalmarineequipment.com
Intercontinental Engineering, PO Box 9055, Kansas City, MO 64168
Jeamar Winches, 1051 Clinton St., Buffalo, NY 14206
Markey Machinery, P.O. Box 24788, Seattle, WA 98124
MMC International, 60 Inip Dr, Inwood, NY 11096

Rapp Hydema, 4433 27th Ave. West, Seattle, WA 98199, (206) 286-8162, (206) 286-3084, scotta@rappus.com

Skookum, P.O. Box 280, Hubbard, OR 97032
Smith Berger Marine, 7915 10th Ave. S., Seattle, WA 98108
Superior Lidgerwood Mundy, 1101 John Ave., Superior, WI 54880

Timberland Equipment Ltd & Almon Johnson, 459 Industrial Ave., Woodstock, ON N4S 7Z2, Canada

WINDLASSES (ANCHORS)

Coastal Marine Equipment Inc., 20995 Coastal Parkway, Gulfport, MS 39503-9517, 228-832-7655, 228-832-7675,

sales@coastalmarineequipment.com, Contact: Ralph Waguespack, www.coastalmarineequipment.com

Rapp Hydema, 4433 27th Ave. West, Seattle, WA 98199, (206) 286-8162, (206) 286-3084,

scotta@rappus.com

WINDOWS

Deansteel Mfg., 111 Merchant St., San Antonio, TX 78204

WINDSCREEN & WINDOW WIPERS

Bae Systems, 550 South Fulton St., Mt. Vernon, NJ 10550
Hepworth Marine International, Hepworth House, Brook St., Redditch, Worcestershire B98 8NF, UK

WIRELESS MONITORING SYSTEMS

Michael J. Erland, 7001 Flewlynn Rd, Ottawa, Ontario K2S 1B6, Canada

There's only one thing with a stronger international presence than MARITIME REPORTER.
Empower your ad with superior circulation.
Call: 212- 477-6700

MARITIME REPORTER AND ENGINEERING NEWS

THE MARITIME GROUP
118 East 25th Street, New York, NY 10010
Tel: 212·477·6700, Fax: 212·254·6271, E-mail: info@marinelink.com



CALL FOR PAPERS

Rough Drafts Due for Final Review and Preliminary Acceptance
December 31, 2005 for SMTC&E
February 10, 2006 for SPS

Papers Due for Final Review and Acceptance February 28, 2006 for SMTC&E
May 12, 2006 for SPS

Final Electronic Files Due
May 1, 2006 for SMTC&E
August 8, 2006 for SPS

S
N
A
M
E



2006

**SNAME MARITIME TECHNOLOGY
CONFERENCE & EXPO**
and SHIP PRODUCTION SYMPOSIUM



SMTC&E



SNAME Maritime Technology Conference & Expo and Ship Production Symposium

**FOR
MORE
INFORMATION
VISIT
www.sname.org**

Circle 295 on Reader Service Card

Employment/Recruitment

Positions Available:

**Captains • Mates
Pilots • Engineers
Tankerman • AB's
QMED's • OS's**

ATT: All boat companies. When you are in need and your boat can't move, call for all crew members - trip or permanent. We are here for you.

BUCCANEER

CREWING

Buccaneer Crewing
The Offshore Employment Specialists
866-675-6300
Fax: 251-442-3696
jobs@buccaneercrewing.com
www.buccaneercrewing.com

**maritime
recruiters**

Administration – Construction
Crewing – Engineering
Finance – M & R
Operations – Sales

(Established 1969) P O Box 260 • Mercer Island, WA 98040 • 206-232-6041

HELP WANTED



VANE BROTHERS
— Over a Century of Maritime Excellence —
Baltimore ★ Norfolk ★ Philadelphia

THE VANE BROTHERS COMPANY is recruiting qualified candidates for positions on marine transport vessels operating along the Northeastern Atlantic Seaboard.

Tug Masters and Mates
Must possess a valid Master of Towing Vessels near coastal or greater endorsement. **Experience with petroleum barges necessary.** New York Harbor experience preferred.

Marine Engineers
Chief engineers for Coastal and Inland tugboats. Must possess a valid **DDE** (Designated Duty Engineers) license or greater. Valid **MMD** (Merchant Marine Document) required. Two years engine room experience required.

Tankermen
Current **MMD** and **PIC** endorsement required; experience preferred.

If you have the skills and experience to qualify for any of these positions, please contact **Scott Bennett** at 410-735-8249 or the Operations Department at 410-631-5096, Ext. 249 or 1-800-252-5096.

www.vanebrothers.com

Experienced Maritime Injury Representation



**SCHECHTER
McELWEE
& SHAFFER L.L.P.**

With over 70 years of combined maritime law experience, the attorneys of Schechter, McElwee & Shaffer have personally handled thousands of cases for injured maritime workers throughout the nation. There is no fee unless we recover for you. We're here to work on your behalf.

We are available toll-free at 800-282-2122, 24 hours a day, 7 days a week. We can fly to you or fly you to us. Se habla espanol.

We speak Vietnamese.

Representing Maritime Workers Since 1964

Maritime Injuries • Shipyard Accidents • Drilling Rig and Fixed Offshore Platform Workers • Crew, Supply, Tug and Barge Workers and other Maritime Workers • Railroad Accidents/FELA • Auto and Truck Accidents
Product Injuries • Wrongful Death • Worker's Comp • Industrial Accidents • Refinery Accidents

DENNIS M. McELWEE

Licensed in Texas and Minnesota

MATTHEW D. SHAFFER

Board Certified in Personal Injury Trial Law
Texas Board of Legal Specialization
Licensed in Texas and Colorado

JONATHAN S. HARRIS

Board Certified in Personal Injury Trial Law
Texas Board of Legal Specialization

CHERYL SCHECHTER

Of Counsel
Licensed in Texas, New Jersey
and District of Columbia

ELLEN HARBERG SHAFFER

713-524-3500
800-282-2122

HOUSTON - GALVESTON *

* Galveston office by appointment only

www.smslegal.com

MarineNews
Whether it's a job, vessel, product or service
MarineNews is the place to look.

- VESSELS FOR SALE
- EMPLOYMENT GUIDE
- MARINE MARKETPLACE
- CLASSIFIEDS

Employment/Recruitment

Marine Tech Support Eng

w/ MS in Marine Power Eng'g or related field on marine diesel engine & turbocharger w/ min 2 yrs exp. Duties incl: review tech drawings & specs; modify & oversee testing, installation, repair & troubleshooting; investigate & observe tests for compliance w/ stds; maintain & coordinate repair of marine vessels; modify & custom design components of the marine diesel engine & turbocharger as per the vessels' specs. Fax resume to Mariso USA, Inc, Middlesex Cty, NJ at 732-777-9331 or email to info2005@mariso.net

**ABs, CAPTAINS, ENGINEERS,
MATES, QMEDS, TANKERMAN**
**ARE YOU LOOKING FOR A BETTER JOB?
MORE MONEY? WE ARE DISCRETE..**
EMPLOYERS LOOKING FOR A CREW?
LET US MAKE THE CONNECTION FOR YOU!!
PROGRESSIVE MARINE PERSONNEL SERVICE
TEXAS (281) 689-7400 FAX (281) 689-7711
LOUISIANA (504) 834-1114 FAX (504) 834-1181
WASHINGTON (206) 524-6366 FAX (206) 524-4544

Overseas Opportunities



Adventure, travel, rewards - discover the excitement of KBR jobs. We're behind the world's most vital projects. If you're ready to take on one powerful adventure, join the team doing more. KBR.

Diesel Powered Generator Mechanics

Recovery Drivers

Water Purification Specialists (ROWPU)

The successful candidate must be willing to deploy to the Middle East or Central Asia for a one year open-ended agreement after approximately 14 days of processing in Houston.

To apply, go to: <http://Apply.KBRjobs.com>

You must use **Source Code 64380**

KBR

KBR is an equal opportunity employer and a drug-free workplace.
KBR Government and Infrastructure is a division of Halliburton.

When you are injured, turn to the attorneys you can trust.

If you are seriously injured while on the job, you need an attorney right away to look out for your interests. After an injury, your company will quickly begin an investigation to build a case. You need immediate representation and help. You need the 28-combined years of experience of Gordon & Elias LLP.

**Gordon
& Elias L.L.P.**
Attorneys at law

5821 Southwest Freeway Suite 422 Houston, TX 77057
713-668-9999 / 713-668-1980 (fax)
Email: rtelias@gordon-elias.com
Website: <http://www.gordon-elias.com>

All Attorneys licensed to practice by the Supreme Court of Texas. Steve Gordon - Of counsel - Board Certified - Personal Injury Trial Law - Texas Board Of Legal Specialization.
Other attorneys not certified by the Texas Board of Legal Specialization except as noted.

* All cash advances will be reasonable and necessary living and medical expenses related to your accident and will only be made in compliance with State Bar rules.

- ◆ No recovery , no fee
- ◆ We answer the phone 24/7
- ◆ We fly to you, or fly you to us - at our expense
- ◆ We provide cash advances to help you with your bills (at a 0% interest rate) in jurisdictions where this is allowed.*

Call now for free consultation.

800-491-3377

We work hard for you to make sure you get everything you deserve.

ConocoPhillips Marine

ConocoPhillips Marine, a fully integrated marine organization, functions as the Marine Center of Excellence supporting all aspects of the ConocoPhillips. We have approximately 1000 people working globally in marine related capacities through out the Upstream, Downstream and Commercial organizations. We are looking for professional, team oriented individuals desiring a collaborative, dynamic and challenging work environment with excellent career opportunities. If you can contribute to our pursuit of excellence, an exciting career opportunity may be in your future!



Interested applicants, please write with strict confidence, providing full career details, present and expected salary, and contact number to:

ConocoPhillips Company
Suite HU3090B
600 N. Dairy Ashford Houston, TX 77079
Or e-mail to: armstj@conocophillips.com

Closing Date: November 30, 2005

ConocoPhillips is an international, integrated energy company. It is:

- The second largest refiner in the United States
 - The third largest integrated energy company in the United States based on market capitalization, oil and natural gas reserves and production.
 - The fifth largest refiner in the world.
 - The eighth largest worldwide reserves holder of non governmental-controlled companies
- Headquartered in Houston, Texas, ConocoPhillips operates in more than 40 countries with approximately 35, 000 employees worldwide.

We are specifically interested in candidates with proven knowledge, skills and abilities in the following Marine Commercial area:

LNG Shipping Market Representative

Key Responsibilities:

- Provide business, logistics, freight market analysis, and professional insight into global commercial, marine and ConocoPhillips' gas organizations
- Develop contractual marine agreements, processes, procedures and systems to execute spot market business
- Analyze, administer and optimize current fleet of controlled - contracted vessels

Key Background, Experience and Skillsets

- Maritime or business degree strongly preferred with minimum ten years combined marine commercial and/or maritime experience.
- Knowledge and understanding of marine logistics systems, freight/commodity markets and related economic drivers and enablers
- Understanding of key charter party terms and conditions
- Excellent analytical skills and process orientation
- Effective communication skills and teamwork collaborative skills

ConocoPhillips is an Equal Opportunity Employer

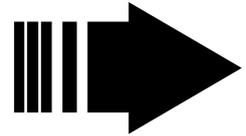
INFORMATION

SHOWCASE

GET FREE INFORMATION ONLINE at: www.maritimeequipment.com/mr

Get Free Information Fast

Circle the appropriate Reader Service Number
on the opposite page or visit
www.maritimeequipment.com/mr



Page	Advertiser	Product	R/S#	Page	Advertiser	Product	R/S#
61	ABB Oy-Marine and Turbocharging	turbochargers	200	68	Kiene Diesel	Diesel cylinder indicators	256
6	ABB Turbocharger Systems AG	turbochargers	202	19	King Engineering	tank gauging systems	257
C4	ABB Turbocharger	turbochargers	201	74	Kobelt Manufacturing	steering and propulsion controls	258
26	ACR Electronics	electronics	203	15	Lockheed Martin Systems & Sensor	fast ferries	259
70	AGMarine	autopilots	204	76	M & I Systems	electric panels	260
40	Aker Marine	naval architects/engineering	205	76	Mack Boring & Parts Company	pumps & generators	261
C3	Alfa Laval, Inc.	bilge/oily wastewater/ballast	206	31	MAN B&W DIESEL A/S	turbochargers	262
70	Allen Marine	shipyard	207	40	Marine Response Alliance LLC	hazard response	263
62	Allied Shipbuilders Ltd.	deck machinery	208	80	Marintec China	exhibitions and conferences	264
28	American Bureau of Shipping	classification society	209	76	Maritime Associates	safety products/signage	265
32	Anchor Marine	anchors and chains	210	24	Military Sealift Command	employment	NRSC
73	Apex Engineering/Rydlyme	biodegradable marine descaler	211	4	Motor Services Hugo Stamp Inc.	diesel engine spare parts	266
32	Ashby Cross Company	adhesives	212	22	Nace International	coatings/corrosion inspection	267
10	Atlantic Marine	shipyard	214	70	New England Pump and Valve	pump and valve repair	268
68	Aurand Manufacturing	surface prep tools	215	67	Norwegian Maritime Equipment AS	safety equipment/pneumatic fenders	269
18	Bollinger Shipyards, Inc.	shipyard	216	76	Ocean Technical Services, Corp.	ship repair	270
57	Brunswick Comm & Gov Products, Inc.	boatbuilder	217	20	Omnithruster Inc.	thrusters	271
71	C.M. Hammar AB	life saving equipment	218	56	Orkot Marine	bearings	272
29	Caprock Communications	satellite communications	219	72	Pacific Coast Marine	doors & hatches	273
21	Caterpillar	marine power systems	220	12	Panametrics-NDT	ultrasonic thickness gages	274
1	C-Map Commercial	electronic charts	221	16	Panduit Corporation	cable ties/electrical connectors	275
66	Coastal Marine Equipment, Inc.	deck machinery	222	27	Petrocom	communications	276
3	Crowley Maritime Corporation	marine logistics/transportation	223	69	Philadelphia Resins	propulsion	277
66	CSD North America	pipe and cable sealing systems	224	78	Posidonia 2006	exhibitions & conferences	278
9	Cummins Marine	marine propulsion/diesel engines	225	68	Procurve Glass Technology LLC	marine glass/windows	279
59	Damen Shipyard	shipyard	226	64	Proteus Engineering/Anteon Corp.	design and modeling software	280
64	Deansteel Mfg.	windows/doors and frames/galleys	227	30	RAMCO Manufacturing Co., Inc.	safety shields for pipe connections	281
76	Desmond Stephan	swirl off scarifier	228	19	Rapp Hydema	deck machinery	282
76	Don Sutherland Photography	photography	229	63	Renk AG	gearboxes/bearings/clutches/couplings	283
72	Donjon Marine Co., Inc.	oil spill response	230	70	RTF Manufacturing	refrigeration/freezers	284
67	Electronic Marine Systems	the sea switch II	231	75	Salt Away	salt removal	285
69	Electronic Marine Systems	the ballast	232	17	Schottel GMBH & Co. KG	propulsion/maneuvering equipment	286
71	Electronic Marine Systems	the bubbler	233	12	Sea Ark Marine	aluminum boatbuilder	287
73	Electronic Marine Systems	the radar	234	41	Sea Tel, Inc.	marine satellite antenna systems	288
30	Elliott Bay Design Group	naval architects	235	36	Severn Trent De Nora, LLC	sanitation systems	289
14	ESAB Welding & Cutting Products	cutting & welding products	236	47	Sherwin Williams Co.	coatings	290
48	ESAB Welding & Cutting Products	cutting & welding products	237	2	ShipConstructor	CAD/CAM	291
81	ESAB Welding & Cutting Products	cutting & welding products	238	65	Simplex Americas, LLC	stern tube and shaft seals	292
62	Ferro Corporation	liquid coatings & dispersions	239	64	Skookum	rigging products	293
25	FLIR Systems	thermal imaging security systems	240	64	Smith Berger Marine	deck hardware	294
7	Furuno	navigation & communication	241	65	SNAME	design/engineering publications	296
62	H.O. Bostrom	seating	242	85	SNAME	society of naval architects/marine engineers	295
13	Halifax Shipyard	ship repair & conversion	243	65	Sohre Turbomachinery	grounding and earthing brushes	297
77	Hamilton Jet	water jets	244	35	Stratos	Satellite service provider	298
45	Headhunter, Inc.	sanitation device/pollution control	245	66	Superior Energies, Inc.	insulation manufacturers	299
34	Healy & Baillie, LLP	maritime law firm	246	10	Technical Marine Systems	engineering services	300
8	Hydra Dynamics	hydraulic cylinders	247	42	Ultra Dynamics Marine, LLC	water jets	301
72	Imes, Inc.	lifeboat and crane testing	248	20	Viking Fender	fenders	302
68	Industrial Power Systems	switchboards and control systems	249	56	Viking Life-Saving Equipment	life rafts	303
75	In-Place Machining	crankshaft repair	250	79	Wartsila	propulsion systems	304
36	Inventory Locator Service	parts locator	251	62	Washburn Doughty	boatbuilder	306
33	Japan Radio Co., Ltd.	communications	254	72	Waterman Supply	marine equipment	307
66	Jastram	steering systems	252	51	Wooster Hydrostatics	hydrostatic repairs	308
11	Jeffboat	barge builders	253	23	Xantic	satcoms & IT solutions	309
C2	Karl Senner, Inc.	marine propulsion	255	5	ZFI Marine U.S. Headquarters	propulsion drives & components	310

The listings above are an editorial service provided for the convenience of our readers.

Employment/Recruitment

Northeast Technical Services Co., Inc.

a small, Mid-West Naval Architecture & Marine Engineering Firms seeks NA/ME to fill immediate openings. Must have a minimum of 5 to 10 years of experience with a degree in NA/ME or equivalent experience, possess excellent verbal and written communication skills, and be computer proficient. AutoCAD skills a plus. We offer competitive salary commensurate with experience, and an excellent comprehensive benefits package. Relocation and some domestic and international travel required. For immediate consideration, we encourage you to e-mail your cover letter and resume to jamueller@netechserv.com.

OEM Marine Diesel Service Center

South Florida large bore OEM Marine Diesel Engine Service Center has two openings to further expand its business.

Service Engineer

Dynamic individual with good 2 and 4 stroke experience as well as control systems and electrical knowledge to provide lead and hands-on maintenance work on propulsion, stationary plants and auxiliary equipment. Travel required.

Sales Engineer

Confident self-starter with either previous ocean going exposure or electrical and control systems knowledge to engage in full customer support and contract acquisitions. The right candidate might be a Kings Point graduate and/or engineer license holder. Travel required.

Both positions offer relocation assistance and annual salary with full benefits based on applicant's experience. Send resume to: ATTN: 1105A, 50 Lexington Ave. STE 290, New York, NY 10010

TECHNICAL ASSISTANT/PURCHASING DEPARTMENT

Responsible for purchasing/negotiating materials, equipment and supplies from vendors. Evaluates vendor quotes/services to determine most desirable suppliers. Involved in processing requisitions/repair reports for assigned vsls. in all stages of development. Conduct market research for most cost effective supplies based on priority; prep. of gathered info for Supv's approval; invoice processing; daily summary/update of all requisitions/repairs to vessels for all parties involved; timely mthly. prep. of status report for Supt. and ships' review; prep. of status reports for vsls in dry-dock/for special projects. Reports to Purchasing Supt. Min. req. B.Sc. and/or 4 years exp. in purchasing, maritime industry a plus. Exc benefits. Send Resume to: HR., Ravenscroft Shipping Inc., 3251 Ponce de Leon Blvd., Coral Gables, FL 33134



OCEAN SHIPPING

TECO OCEAN SHIPPING is accepting applications for all limited and unlimited licensed and unlicensed positions.

Must have relevant USCG document, STCW 95 endorsement (AB/QMED) with current U.S. passport; minimum A/E license is DDE unlimited and Mate is 1600-ton oceans endorsement.

As a **TECO Ocean Shipping** team member, you'll enjoy the following benefits:

- Equal time
- Medical/dental benefits
- Paid holidays
- Tuition reimbursement program for approved classes
- 401k Savings Plan with a company match
- Performance-based incentive compensation program
- Retirement plan
- Paid Travel

Contact: **TECO Ocean Shipping - Marine Human Resources**
1300 East 8th Avenue, Suite S-300 Tampa, FL 33605
Fax: 813-242-4849
or apply online at www.tecooceanshipping.com

EOE

Director, International Business Development and Area Manager for Mexico needed by owner/operator of deepwater offshore supply company in Covington, Louisiana. Position requires Bachelor's degree in Business Admin. or Finance and 2 years experience in job offered or offshore supply vessel industry management. Must read, write, and speak Spanish and must read and speak Portuguese. Requires 25% travel to Mexico, Central America, or South America.

Please send resumes to
Hornbeck Offshore Services, Inc.,
Attn: Louis Buisson, 103 N. Park Blvd.,
Covington, LA 70433.

Three rules for a top selling ad:

Location. Location. Location.
MarineNews is the perfect location for your ad.

Employment/Recruitment

Maritime Jobs

ONLINE
www.maritimejobs.com

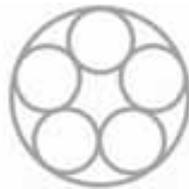
- Ship/Boat Operators
- Ship/Boat Building/Repair
- Offshore Drilling/Contractor
- Naval Architect/Marine Engineer
- Marine Manufacturer/Supplier
- Admiralty Law
- Marine Insurance
- Government
- Administrative
- Academy/School
- Employment Agencies
- Executive
- Administrative/Management
- Sales/Marketing
- Diving
- Stevedoring
- Every Other Maritime Job

**Employers and Job Seekers are
one click away from every area
of the Global Marine Industry
at MaritimeJobs.com.**

THE MARITIME GROUP

118 East 25th Street
New York, NY 10010
Tel: 212-477-6700
Fax: 212-254-6271
E-mail: info@marinelink.com

215 NW Third Street
Boynton Beach, FL 33435
Tel: 561-732-4368
Fax: 561-575-3217



FAIRFIELD
INDUSTRIES

Fairfield is known the world over for its development and use of advanced technology for both acquisition and processing of seismic data utilized in the exploration of oil and gas. We operate Seismic Crews in the Gulf of Mexico. Our Marine field operations are based out of Lafayette, LA.

Our crew works a 28/28 schedule with accrued paid time off.

(Daily Compensation is paid during 28 days scheduled to work AND during the 28 days off)

We are currently seeking qualified candidates for this position:

Marine Engineer Unlim. HP (USCG Licensed - 3rd Asst/DDE/Chief Engineer Unlim. HP)
Oiler/QMED (USCG MMD/STCW)
Marine Diesel Mechanic (Unlicensed Engineer)
Compressor Mechanic (2K psi) (Maintaining Multi-stage Compressor & related Diesel Eng.)

Other positions we frequently recruit for and will accept Applications/Resumes:

A/B Seaman (USCG MMD/STCW)
Master/Mate (USCG Licensed 500+ Tons Near Coastal/STCW)
Navigator/Surveyor (Seismic Navigation system experience required)

Fairfield offers an excellent benefits package including life, health, dental, vision, long-term disability insurance, and 401(k) - Contribution required.

Qualified applicants are encouraged to submit a resume to e-mail listed below. USCG licensed candidates should send copies/images of License, STCW, MMD & Drivers license. You may forward a resume & salary history (include schedule) to jhodge@fairfield.com or fax it to Jeff Hodge - H. R. Representative @ 337.232.2313.

Questions? Call 281.615.8499 for Jeff Hodge. Or Toll Free @ 800.231.9809 Ext. 7642

Fairfield Job Descriptions: <http://www.fairfield.com/joblisting2.html>
Fairfield Data Acquisition Fleet: <http://www.fairfield.com/fleetlist.html>

Fairfield Industries is an equal opportunity employer.

Vessels for Sale/Charter • New/Used Equipment

(4) Used AmClyde 15HP Capstans



11,000 lb haul-in cap.
31000 lb Bollard rating
\$15,750.00 /ea.
Seattle, WA

New / Used
Berger Fairleads / Deckleads
Large Inventory In Stock
Rental / Sales



RASMUSSEN EQUIPMENT COMPANY
(800) 227-7920 • rasweb@rasmussenco.com



Southern Scrap Recycling

® Metal Recyclers Since 1900

**We buy barges and other marine vessels
for scrap. Serving the inland waterways
and Gulf coast area.**

MOBILE • MORGAN CITY • NEW ORLEANS

Call 1-800-467-2727 ext. 359

(2) Used Smatco Windlasses



2-3/4" Chain
\$15,000.00 /ea.
Seattle, WA



Used AJ Model 232 Tow Winch
1 Drum Electric
Approx 1700' of 1-1/2" W/R cap.
\$18,500.00 Belle Chasse, LA

RASMUSSEN EQUIPMENT COMPANY
(800) 227-7920 • equipmentsales@rasmussenco.com

Vessels for Sale/Charter • New/Used Equipment



Specializing In Barges



- Single or Double Hull, Inland or Ocean-Going
- Design, Construction & Modification
- Chartering, Sales & Brokerage

Ask for Bill Gobel

503-228-8691 1-800-547-9259

3121 SW Moody Avenue, Portland, Oregon 97239

TUGBOAT COMPANY FOR SALE

Well established with a good client base; reputable long term crews running 4 tugs and several barges on the West Coast. Gross Sales \$2M, Net Inc. \$530K, SBA Pre-approved

Contact Tony Moran 925-609-9100 x 333
The Moran Group

Want to Have Your Ad Here?

Call today!

Brett W. Keil

Tel: 561-732-1185

Rob Howard

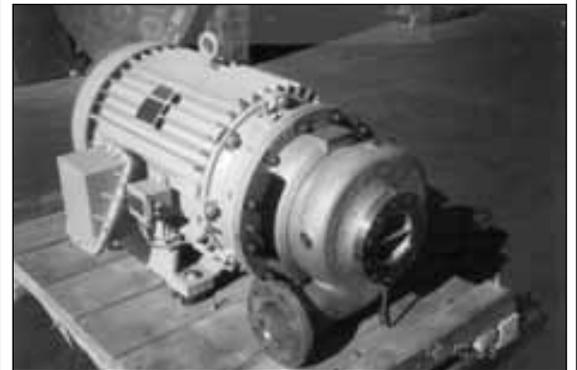
Tel: 561-732-4368

Dale Barnett

Tel: 212-477-6700

NEW FIRE PUMPS

1,000 G.P.M. at 125 P.S.I. - 6" IN x 5" OUT
Driven by a Low Noise 150 H.P. 440 Volts Elect. Motor
Titanium casing, totally enclosed motors.
Ideal for MARINE or INDUSTRIAL USES
COMPLETE MANUAL and CURVES AVAILABLE



WATERMAN SUPPLY CO. INC.

910 MAHAR AVE · WILMINGTON, CA. 90748

Phone : (310) 522-9698 Fax: (310) 522-1043

e-mail: waterman@bigplanet.com

Products & Services

American Heavy Industries MARINE & SHIPBOARD ELEVATORS

3411 Amherst Street Norfolk, VA 23513
(757) 858-2000 (Office) (757) 858-2100 (Fax)

www.AmericanHeavyIndustries.com
sales@americanheavyindustries.com

TANKS

Custom Fuel Cell Bladder Tanks

Diesel or Gas

- Impact Resistant
- Non-Expanding
- Vibration Proof
- Lightweight
- Fully Baffled

MADE TO FIT
WORK BOATS, PATROL
BOATS, RACE BOATS.

AHL TOLL FREE 800-526-5330

AERO TEC LABORATORIES, INC.
Spear Road Industrial Park, Ramsey, NJ 07446-1251 USA
Phone: 201-825-1400 Fax: 201-825-1962

Tired of nautical reproductions



Maritifacts has only **authentic marine collectibles** rescued from scrapped ships: navigation lamps, sextants, clocks, bells, barometers, flags, binnacles, telegraphs, portholes & more. Current Brochure - \$1.00.

www.martifacts.com / maritifacts@aol.com

MARTIFACTS, INC.

P.O. Box 350190 Jacksonville, FL 32235-0190
Phone/Fax: (904) 645-0150



Winch used on Irving built tugs for Panama Canal Authority.

- Towing Machines • Hawser Winches • Traction Winches • Anchor • Windlasses
- Capstans • Oceanographic Winches • Cable Laying Systems • Hose Reels • Fairleaders
- Chain Jacks & Stoppers



Timberland Equipment Limited

P.O. Box 490, 459 Industrial Avenue
Woodstock, Ontario, Canada N4S 7Z2
Tel: (519) 537-6262 • Fax (519) 539-5853
email: sales@tewinch.com • Web Site: www.timberland.on.ca



Almon Johnson Limited

5301 Shreveport-Blanchard Hwy Shreveport, LA 71107
Tel: (800) 387-1892



•USCG Approved OUPV to MASTER/MATE 200 GRT
STCW-95 BST

Call Today: 1-800-237-8663
www.seaschool.com



HeatBlocker Exhaust Insulation

Long-lasting, high performance exhaust insulation
Valve and Pipe Covers
Lowest cost per operating hour on the market
Removable and reusable blankets

KALB CORPORATION
www.kalbcorp.com • 309.483.3600
mkalb@kalbcorp.com

Products & Services

ALUMINUM BOATS FOR SEVERE SERVICE

WORKSKIFF[®]

INC.

- Premium marine grade 5086 aluminum
- All-welded construction
- 16 to 27 ft. models
- Flexible options
- Trailerable
- Unsinkable



WWW.WORKSKIFF.COM
INFO@WORKSKIFF.COM

1-800-745-1727
GSA# GS-07F-0063J

Marine filters, strainers and screens
888-526-7795
Yankee Wire Cloth Products, Inc.
221 W. Main St., West Lafayette OH 43845
Fax: 740-545-6323 www.yankeewire.com

ANKER MARINE PAINTS

STOCKS IN MAJOR U.S. PORTS
ASSOCIATED COMPANIES IN MEXICO,
EUROPE AND THE FAR EAST

21 CHARLES ST., WESTPORT, CT 06880
Ph: 203-226-5200 Fx: 203-226-5246
ankermarinepaint@earthlink.net

USCG License Software
Affordable - Merchant Marine Exam Training
<http://hawsepipe.net>
Freelance Software, 39 Peckham Place, Bristol RI 02809
(401)556-1955 - sales@hawsepipe.net



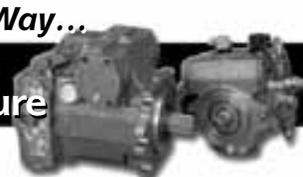
Redwise
GLOBAL SHIP DELIVERY & CREWING

Redwise Maritime Services B.V. Eemweg 8, 3742 LB Baarn
P.O. Box 20, 3740 AA Baarn, The Netherlands
Phone +31 (0)35 54 80 500 (24 hrs). Fax +31 (0)35 54 80 511

info@redwise.nl www.redwise.nl

The Wooster Way...

Performance Under Pressure



Wooster Hydrostatics, an independent remanufacturer of hydrostatic pumps and motors, uses only genuine OEM replacement parts. We are dedicated to providing our customers superior service and a quality product that meets or exceeds OEM standards.

WOOSTER[®]
HYDROSTATICS
Performance Under Pressure

Wooster, Ohio Service Center
330-263-6555 • 800-800-6971
Fax **330-263-4463 • www.woosterhydrostatics.com**

RUSTIBUS



REMOVES RUST & PAINT!

THE MOST POWERFUL MACHINES!

DALSEIDE INC
2000 Dairy Ashford, suite 440
Houston, TX 77077
Ph: 281 668 9330 - Fax: 281 668 9331
E-mail: dssinc@rustibus.com **www.rustibus.com**

DREXEL INTERNATIONAL, INC.

Spare Parts, Repairs, Logistics

FMS - Naval Ship Support

- Small Components up to Complete Systems - Radar, Weapons, Ordnance, Torpedoes, Support Equipment, Propulsion, Gyros, Naval Aircraft, and Other Shipboard Systems
- Services Include: Warehousing, Export, Inventory Control, and NSN Procurement

Let us set up a program for your organization!
Email: drexelint@aol.com; Fax: (703) 715-3432
www.militaryspareparts.com



Tank Tender

The original precision tank measuring system!

Accurate tank soundings have never been easier when one **TANK TENDER** monitors up to ten fuel and water tanks. Reliable, non-electric, medical grade components; accurate liquid levels; fast installation! Only one small hole in tank top. Furnished as optional equipment by many first class yacht builders.

HART SYSTEMS, INC.
Gig Harbor, WA USA
www.thetanktender.com
253-858-8481 Fax: 253-858-8486

Custom Fit Blanket Systems For The Marine Industry



Blanket Designs to 2000F - Acoustic/Thermal

ENGINE EXHAUST
RECIP ENGINES
MANIFOLDS, SILENCERS

INSULTECH
Removable, Reusable Blanket Insulation

HANNON
ENTERPRISES OF W.N.Y. INC.

75 Main Street,
North Tonawanda, NY 14120-0199
(716) 693-7954
Fax (716) 693-1647
www.blanket-insulation.com
Representative Inquiries welcome

SPAR ASSOCIATES, INC. PERCEPTION[®]

*Integrated Shipyard Management Systems
Independent Cost Estimating, Planning & Scheduling Services*

Cost Estimating • Planning & Scheduling • Purchasing & Material Control • Work Orders & Time Charge Control • Job Costing & Earned Value Performance Reporting

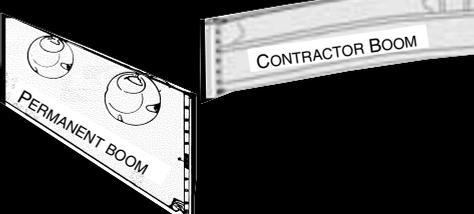
927 West Street, Annapolis, Maryland USA 21401
Phone +410-263-8593, FAX +410-267-0503
Email: info@sparusa.com
Visit our web site: www.SPARUSA.com

Products & Services



DAVIT SALES INC.
&
DAVIT ENGINEERING
Naval Architects & Marine Engineers

MARINE CRANES
MARINE ENGINEERS
OIL SPILL BOOM



CRANE TYPES
FIXED BOOM
TELESCOPIC BOOM
KNUCKLE BOOM



VISIT US ON THE WEB AT
WWW.DAVITSALESINC.COM

CRANSTON, RI * JEFFERSON VALLEY, NY
TEL: 914 962 4544 FAX: 914 962 5418 E-MAIL: DAVIT1@AOL.COM



**WORLD-WIDE TURN-KEY TOW-DELIVERIES, TOW-
PREPARATIONS, ANY DWT, SURVEY-& INSURANCE
ASSISTANCE, DEMO-VESSEL & EQUIPMENT SALES.**
<http://www.nordicship.com>



180 Division Avenue, West Sayville NY 11796
Tel: (631) 589-2510 Fax: (631) 589-2925
Web Site: www.peckhale.com
e-mail: sales@peckhale.com

Release-A-Matic H44 R.A.M. Hook

Features:

- Quick disconnect
- Remote release or disengagement
- Place loads where access is restricted
- Saves Manpower
- Wide range of angles of release

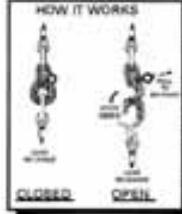
101 Applications!!

- Towing
- Maritime
- Construction
- Material Handling
- Fishing
- Boating
- Lifeboats
- Laboratory

• Lifeboat Davit Release •

Materials: Heat Treated Forged Steel
Finish: Zinc or Cres.

Strength:	S.W.L	M.B.S.
H44-3L	2,000 lbs.	8,000 lbs.
H44-3	4,500 lbs.	18,000 lbs.
H44-9	18,000 lbs.	71,700 lbs.

*Peck & Hale is your Full Service Cargo Securing Systems
and Equipment Supplier!*
Military • Maritime • Railroad • Aircraft Applications
Sockets • Hi-shock Chain • Wire & Web Lashing Tiedowns

Upgrading your simulator? Barco can help.

**Introducing
the new SIM 5plus**

- Easy upgrade path for maritime simulators
- Raise training efficiency
- Easy system operation
- Lower operating costs
- Financing options available



Save up to
\$3000*

(* rebate pending on trade-in of present system)

Contact us for details!
1-800-888-7579
maritime.us@barco.com

BARCO

Visibly yours.

Barco... the world leader in visual display solutions.



AETNA ENGINEERING
A DIVISION OF FIREBOY-XINTEX



**Direction Indicating
Shaft Tachometer**

- ✓ Guaranteed accurate to 1 RPM
- ✓ Display shows F (Forward) or R (Reverse)
- ✓ Simple four wire installation
- ✓ No separate "Black Box" required
- ✓ Rugged - 2-Year Limited Warranty

Contact one of our engine specialists to assist you with your tachometer needs

0-379 Lake Michigan Dr. NW, Grand Rapids, MI 49544 USA
Toll Free: 1-800-776-7962 Fax: (231) 223-9467
Email: aetnaengineering@fireboy-xintex.com
Web: www.fireboy-xintex.com



DIJ Maritime, Inc.

- ✓ Facility Audits
- ✓ Vetting/Vessel Audits
- ✓ Training
- ✓ Contingency Plans
- ✓ Drills
- ✓ Facility Security Plans

361-698-3160 or 210-912-2521 or 813-361-7146
www.DIJMaritime.com



Nautitool™
**STAINLESS STEEL TIE DOWNS
& HAND TOOLS**



Call about our global exclusive
4" Stainless Tie Down

Dependable 304 Stainless
Reduce Downtime
Increase ROI
Long Service Life

www.nautitool.com
800.233.2766 nautitool1@yahoo.com

Products & Services



Need Financing For A

Fast Ferry - Work Boat
Any Commercial Vessel
Marina Equipment
Dry-Dock - Fork Lift
And your bank would rather
discuss the weather...?

We offer custom lease and sale/leaseback financing to the Maritime community!

Contact: Capt. Bill Anderson
804-731-0168

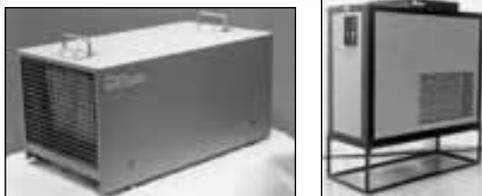
Fax: 804-730-1179

Email: banderson@united-leasing.com

UNITED LEASING MARINE, LLC

DEHUMIDIFIERS FOR EVERY SITUATION

- Prevent rust and corrosion
- Stop dampness from condensation
- Reduce ventilation, heating, and maintenance costs
- Prevent unpleasant environments and odors
- Maintain controlled humidity
- Eliminate mold and mildew



CAPACITY OF 6 GALLONS TO 52 GALLONS/DAY



Ebac Industrial Products, Inc.
704 Middle Ground Blvd.
Newport News, VA 23606
Telephone: 800-433-9011
Fax: 757-873-3632

Muldoon Marine Services

COMMERCIAL DIVING - NONDESTRUCTIVE TESTING

UWILD Surveys

Approved By All Major Class Societies

Nondestructive Testing

Topside and Underwater

Ship Maintenance

Propeller Polishing, Hull Cleaning, Etc.

24-Hour: (562) 432 5670

Long Beach, CA

www.muldoonmarine.com



Professional

YOU COME TO US

16 courses to choose from
at our facilities in Reno, Nevada or Griffin, Georgia.

WE COME TO YOU

Abaris Onsite: Quality training conveniently held at your facility for multiple students.

Abaris Direct: Consulting services aimed at finding solutions for your specific problems.



The Leader in Advanced
Composite Training
Since 1983.

Contact us for a complete course catalog.

800-638-8441

www.abaris.com



A. K. Suda, Inc.

NAVAL ARCHITECTS & MARINE ENGINEERS

- Concept & Contract Design
- Construction Drawings
- Transportation Analysis
- Owner Representation

3004 19th Street • Metairie, LA 70002

Ph. (504) 835-1500 • Fax (504) 831-1925 • info@aksuda.com

www.almc-inc.com

Alan C. McCLURE ASSOCIATES, INC.
Naval Architects • Engineers

2600 South Gessner • Suite 504 • Houston, Texas 77063
Tel: (713) 789-1840 • Fax: (713) 789-1347 • E-mail: info@almc-inc.com

Boland Industrial Consulting Services, Inc.

Equipment Reliability • Vibration Analysis • Laser Alignment • Lubrication
All Vibration and Alignment Problems

Office: (228)762-3172 Fax: (228) 762-3108

John S. Boland
President

Cell: (251) 232-7163

P.O. Box 612
Pascagoula, MS 39568

BRISTOL HARBOR MARINE DESIGN
Naval Architects / Marine Engineers

a division of
BRISTOL HARBOR GROUP, INC.

103 POPPASQUASH RD
BRISTOL, RI 02809
TEL 401.253.4318
FAX 401.253.2329

design@bristolharborgroup.com
www.bristolharborgroup.com

M. ROSENBLATT & SON

Naval Architects Marine Engineers



Serving the Maritime Industry and the
United States Navy in 36 Worldwide Locations

www.amsec.com

757-463-6666

LEGAL NETWORK



The SOS Number.
Don't Leave Port
Without It!
1-800-3-MAY-DAY

NATIONAL
24-HOUR HELPLINE
NO RECOVERY-
NO FEE

INJURED AT SEA?

Experienced Maritime Lawyers

Representation Nationwide

Cappiello Hofmann & Katz

360 West 31st Street
New York, NY 10001

17 Academy Street
Newark, NJ 07102

Call for a FREE telephone consultation

1-800-3-MAY DAY • 1-800-362-9329

www.chklawfirm.com

Professional

The ultimate stop for solving marine propulsion shafting vibration or design problems

CADEA

www.cadea.hr

TRU M. PAVLINOVIĆ • HR-21000 Split • CROATIA
PHONE: +385 21 490 151 • FAX: +385 21 490 154

CUNNINGHAM & WALKER
MARINE CONSULTANTS, INC.

NAVAL ARCHITECTURE & MARINE ENGINEERING
MARINE HVAC ENGINEERING
MARINE ELECTRICAL ENGINEERING

1762 PROVIDENCE HOLLOW LANE, JACKSONVILLE, FL 32223
TEL 904 292 9293 FAX 904 824 1423

GEORGE G. SHARP, INC.

22 CORTLANDT STREET, NEW YORK, NY 10007
TEL (212) 732-2800 FAX (212) 732-2809

WASHINGTON (703) 548-4400
VIRGINIA BEACH (757) 499-4125
BREMERTON (360) 476-8896
SAN DIEGO (619) 425-4211

www.georgessharp.com
MARINE SYSTEMS • ANALYSIS & DESIGN

CDI Business Solutions
Government Services

CDI Marine Company Shipbuilding Life Cycle Support
The M&T Company Military Aviation

Naval Architects / Marine Engineers 904-805-0700
Engineering / Technical Services 732-657-5600

JACKSONVILLE, FL • BREMERTON, WA
ISLANDIA, NY • PHILADELPHIA, PA
LAKEHURST, NJ • PATUXENT RIVER, MD
PASCAGOULA, MS • PORTSMOUTH, VA
SEVERNA PARK, MD • SAN DIEGO, CA
WASHINGTON, DC

Visit us at our web site at:
<http://www.cdi-gs.com> Email: cdi-gs@cdicorp.com

CUNNINGHAM
MARINE HYDRAULICS CO., INC.

Service Parts Repair Consulting

Authorized Sperry - Decca - C. Plath Dealer

CMH HELE-SHAW, INC.



1714 Willow Avenue
Hoboken, N.J. 07030
(201) 974-0570 # (800) 322-2641
FAX # (201) 974-0574

E-Mail Address:
cmh@cmhusa.com

G&C GIBBS & COX INC

NAVAL ARCHITECTS & MARINE ENGINEERS

www.gibbscox.com

Email: info@gibbscox.com Phone: 703-416-3620

CHILDS ENGINEERING CORPORATION

WATERFRONT ENGINEERING • DIVING INSPECTION

BOX 333 MEDFIELD, MA 02052 (508) 359-8945

THE GLOSTEN ASSOCIATES
Consulting Engineers Serving the Marine Community

1201 Western Avenue, Suite 200
Seattle, Washington 98101
206.624.7850 | TEL
www.glosten.com | WEB

Naval Architects | Marine Engineers | Ocean Engineers

Serving the marine industry for over 140 years

CRANDALL
DRY DOCK ENGINEERS, INC.

• Consulting • Design • Inspection
Railway and Floating Dry Docks
Dry Dock Hardware and Equipment

Box 505804, Chelsea, MA 02150 (617) 884-8420 Fax: (617) 884-8466
www.crandalldrydock.com

DM Consulting, Inc.
12254 Dutton Road - San Diego, CA 92129

Dry Dock Training and Conferences

Ph: 858-705-0760 • Fx: 858-538-5372
Jstiglich@aol.com
www.drydocktraining.com

SPECIALISTS IN THE DESIGN OF:

- OFFSHORE SUPPORT VESSELS
- TUGS AND TOWBOATS
- BARGES
- HIGH SPEED CRAFT
- NAVAL VESSELS
- CREWBOATS
- SPECIAL PURPOSE VESSELS
- YACHTS



DESIGN, CONSULTING, SURVEYING AND DRAFTING SERVICES

GUARINO & COX, LLC
Naval Architects, Marine Designers and Consultants
829 Lullax Drive North, Suite 3, Mandeville, LA 70471
Telephone (985) 626-1800 Fax (985) 626-0218

C. R. CUSHING & Co., INC.

NAVAL ARCHITECTS, MARINE ENGINEERS,
TRANSPORTATION CONSULTANTS

30 VESEY STREET, 7TH FLOOR, NEW YORK, NY 10007
P:(212) 964-1180 F:(212) 285-1334 INFO@CRCCO.COM
WWW.CRCCO.COM

EVERETT ENGINEERING INC.

"INGENUITY UNLIMITED"

NEW! Main propulsion ABS certified shaft, sleeve and bushing weld repair & fabrication services up to 15" diameter and 50 feet in length

- Stainless & carbon steel cladding/weld repair
- Straightening and score/gouge filling

<http://www.everettengineering.com>

1420 W. Marine View Drive
Everett, WA 98201
Tel: (425) 259-3117 Fax: (425) 258-1288

Ideas Engineered Into Reality

GUIDO PERLA & ASSOCIATES, INC.

NAVAL ARCHITECTS,
MARINE, MECHANICAL & ELECTRICAL ENGINEERS

701 Fifth Avenue, Suite 1200 Phone: 206-768-1515
Seattle, WA 98104 <http://www.gpai.com>

GHS
General HydroStatics

Ship Stability and Strength Software
Creative Systems, Inc.
Creators of GHS™

P.O. Box 1910 Port Townsend, WA 98368 USA
phone: (360) 385-6212 fax: 385-6213
email: sales@ghsport.com
www.ghsport.com/ghs

Fleetway Inc.

- Marine Engineering • Naval Architecture
- Life Cycle Support

IRVING

Suite 200, 155 Chain Lake Drive, Halifax, Nova Scotia, Canada B3S 1B3
Phone: (902) 494-5700 Fax: (902) 494-5792

HEGER DRY DOCK, INC.

13 Water Street, Holliston, MA 01746

Engineering for all types of dry docks

- Design
- Docking Calculations
- Certifications
- Engineer/Diver
- Inspections
- U.S. Navy 1625C FCR's
- Dockmaster Training Classes

Phone: (508) 429-1800 Fax: (508) 429-1811
www.hegerdrydock.com

JOHN W. GILBERT ASSOCIATES, INC.

Naval Architects Marine Engineers

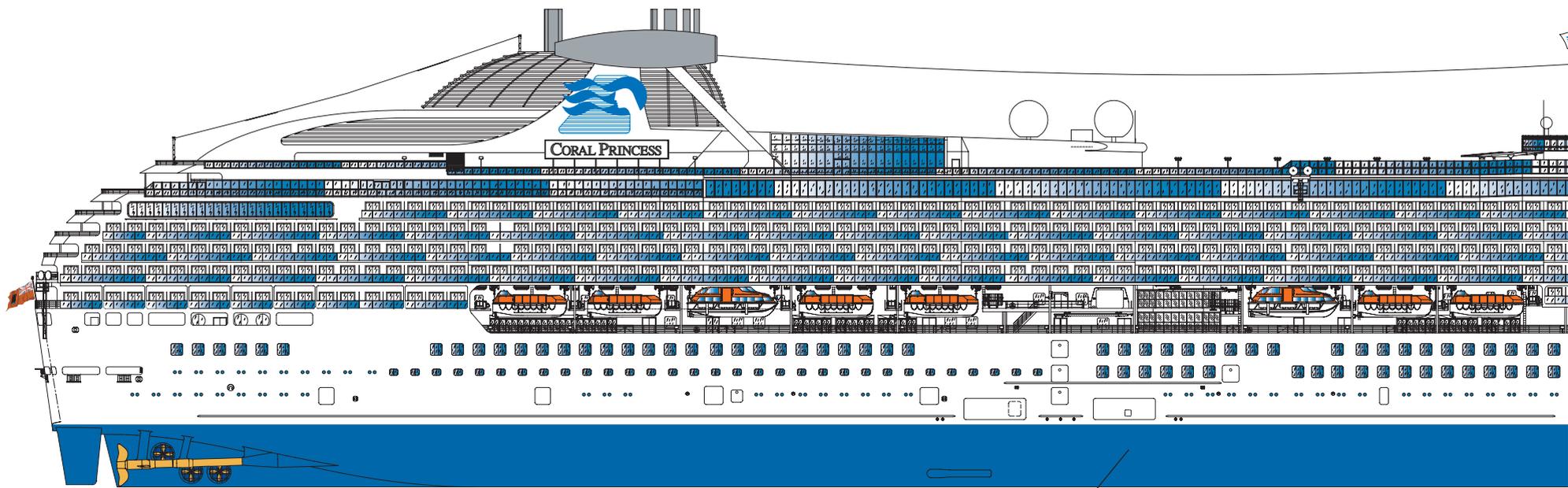
(781) 740-8193
FAX (781) 740-8197

GILBERT
NAVAL ARCHITECTS BOSTON

75 Terry Drive, Suite 200
Hingham, MA 02043

Confidence

on board



As it cruises the Gulf of Alaska each summer, the Coral Princess spends only limited time in zones where bilge water can be discharged. For complete certainty, the ship uses EcoStream from Alfa Laval.

EcoStream is a high-speed centrifugal separation system for bilge water treatment. Without chemicals or absorption filters, it generally reduces oil content to less than 5 ppm – even when emulsions are present.

“My choice of Alfa Laval is clear,” says Paul Barrett, Fleet Technical Superintendent for Princess Cruises. “In my opinion, EcoStream is the most effective way of reaching 15 ppm.”

With EcoStream aboard the Coral Princess, the ship's compliance with IMO regulations is certain. And so is the protection of Alaska's sensitive waters.

For more on EcoStream or its performance aboard the Coral Princess, please visit us at www.alfalaval.com/marine or contact Noreen Comerford at +1 215 443 4021 or noreen.comerford@alfalaval.com



EcoStream

The Coral Princess uses EcoStream, a centrifugal separation system for bilge water treatment. Designed for real-life operating conditions,

EcoStream allows continuous operation – even on rough seas. Oil content is generally reduced to less than 5 ppm, with minimum waste to deposit on shore.

Visit Alfa Laval's booth at this upcoming show!
Pacific Marine Exposition - Seattle, Washington - November 17 - 19, 2005 : Stand number 618



www.alfalaval.com/marine

All roads lead to ABB Turbocharger Service.



ISO 9002
Certificate Numbers: 20458,
32706, 32113, 33199, 33112



*ABB Turbochargers' network of service centers around the U.S.
equals less down time for your vessel, saving you time and money!*

We at ABB recognize that every additional hour your ship stays in port for repairs is money lost. This is why 24-hour service for your ABB turbocharger, often within hours, is now available locally from our facilities in Houston, Los Angeles, Miami, New York and Seattle.

Staffed by ABB factory-trained technicians, our repair facilities offer swift handling of your maintenance concerns by people you know you can trust. With the help of our computer network, ABB technicians can access your

turbocharger's complete history to aid in speedy diagnosis. They can then utilize our locally maintained stocks of genuine ABB parts or go on-line to rapidly locate necessary parts in our worldwide inventory.

You asked for the best in service, and we delivered. But you would expect nothing less. After all, we design and build the industry's most efficient turbochargers. It's only natural that we also offer the finest in repair and maintenance service, worldwide.

We Design It... We Build It... We Service It Best!

ABB Turbochargers

U.S. Headquarters*

1460 Livingston Ave., North Brunswick, NJ 08902

24 Hour Service: (732) 932-6103

Telefax: (732) 932-6378

*ISO 9002 Certified Facilities

ABB Turbocharger U.S. Service Centers:

*Houston (281) 930-8383 Fax: (281) 930-9595

*Los Angeles (310) 324-4814 Fax: (310) 324-5102

*Miami (954) 450-9544 Fax: (954) 450-8957

*New York (732) 932-6103 Fax: (732) 932-6378

*Seattle (253) 383-1806 Fax: (253) 383-1270

ABB