SNAME SD-5 PANEL and INTERNATIONAL HYDROFOIL SOCIETY
join with the
AMERICAN SOCIETY OF NAVAL ENGINEERS

Thursday, 21 February 2013
Hyatt Regency Crystal City Hotel, Arlington, VA

in conjunction with ASNE Day 2013

5:15 to 6:15 Light hors d'oeuvres, wine & soft drinks in ASNE exhibit area
6:30 to 7:30 Technical program (below) in Washington Room A&B
7:30 to 8:30 Port O'Call reception and buffet in ASNE exhibit area

Price: $0.00 – complimentary, courtesy of ASNE
(paid parking available under hotel or on streets)

Attendees must either: (1) be attending the main ASNE Day program
or (2) make a reservation for this event as specified below

Make reservations by noon Friday, 15 February, with
Allen Ford at allenford@verizon.net or **Mark Bebar at** mbebar@csc.com

Information required for a badge to the exhibit area and this event:
Salutation (Mr., Dr., CDR, etc.), first & last names, organization/company, email.

Ride Control for High-Performance Ships

Alan Haywood and Benton Schaub
Naiad Dynamics US, Inc.

Even moderate waves can generate substantial forces on a ship or boat and produce significant motions that can disturb passengers and cause damage to cargo and equipment. This is especially true for smaller high-performance vessels encountering waves at high speed. Ride control systems have been developed to reduce these motions significantly, and a major developer has been Maritime Dynamics, Inc. (MDI), now part of Naiad Dynamics. The presentation will provide an overview of ride control devices (fins, trim tabs, interceptors, T-foils and air cushions), their incorporation into systems for ride control, and examples of their applications and resulting effectiveness in a range of high-speed ships. These will include commercial ferries, private yachts, and military vessels (for which the technology has been largely adopted from the commercial sector). A particular focus will be ride control systems on currently operating trimarans.

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Alan Haywood was educated in the UK, receiving degrees in mathematics and computer science. He has worked in the marine and offshore industries for over 30 years. At Curtin University in Australia he was on the team designing the Ocean Leveller motion control system for Austal Ships, responsible for the control software and system commissioning. Since 1997 he has worked for MDI/Naiad as Simulation Manager and has conducted many sea trials and tank test programs.

Benton Schaub received his BSE in Naval Architecture and Marine Engineering from MIT in 1968. He joined the David Taylor Research Center in 1981, where he was responsible for all engineering activity related to the operations and testing of the SES-200 surface effect ship. With MDI/Naiad since 1985, he is an expert in the design of motion control systems, including seakeeping simulation, development of simulation software, and mechanical, structural and hydrodynamic design of control devices.
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