## Agenda

## **Greening the Research Fleet Workshop**

January 10-11, 2012 Nicholas School of the Environment Duke University, Durham, NC

## January 10, 2012 - Executive Classroom

0730	Continental Breakfast at Thomas Center – Executive Prefunction Room
0800	Meeting Check-In – Executive Classroom
0830	Welcome and Introductions – Bruce Corliss  • The UNOLS Fleet – Bruce Corliss
0845	UNOLS Vessel Design and Construction Projects – Federal agency representatives will have an opportunity to report briefly on the design and construction projects currently underway:  Ocean Class Research Vessels – Navy  R/V Sikuliaq - NSF  Regional Class Research Vessels - NSF
0900	<b>Green Research: The Derek M. Baylis Survey of the Northern San Andreas Fault</b> , Chris Goldfinger, Oregon State University
0925	Oceanography Under Sail: What can be Learned from the Tara Ocean, Lee Karp-Boss (on behalf of the Tara Oceans consortium), University of Maine
0950	Foss Hybrid Tugs, Susan Hayman and Paul Jamer, Foss Maritime Company and AKA Group
1015	Coffee Break
1030	Engineering Challenges for a Green Ship Conversion, Matthias Teichrieb, Tactical Marine Solutions Ltd.
1055	Vessel Energy Management, What It Is and Common Areas for Energy Improvement, Michael Gaffney, Alaris Companies
1055 1120	· · · · · · · · · · · · · · · · · · ·
	Gaffney, Alaris Companies  Developing an Environmentally Compliant Vessel Lubrication Plan, Ben Bryant, Kluber Lubrication
1120	Gaffney, Alaris Companies  Developing an Environmentally Compliant Vessel Lubrication Plan, Ben Bryant, Kluber Lubrication North America  The Benefits and Challenges of Bio-fuels and Bio-lubricants in Marine Applications, Dennis
1120 1145	Developing an Environmentally Compliant Vessel Lubrication Plan, Ben Bryant, Kluber Lubrication North America  The Benefits and Challenges of Bio-fuels and Bio-lubricants in Marine Applications, Dennis Donahue, NOAA-GLERL

1400	Lessons Learned from Greening the Cruise Vessels, Jaime Sweeting, Royal Caribbean Cruises Ltd.
1425	<b>SNAME Marine Vessel Environmental Performance Method,</b> Timothy S. Leach, The Glosten Associates, SNAME
1450	SuPort: Integrating Sustainability into Ports, Craig Covil, Arup
1515	Break
1610	Radiated Noise of Research Vessels, Christopher Barber, ARL Penn State
1635	Next Generation Research Vessel: Balancing Performance with Zero Footprint Objectives, Timothy S. Leach, The Glosten Associates
1700	<b>Greening the European Research Vessel Fleet,</b> Cattrijsse, A & Rogers, R., Flanders Marine Institute & National Oceanography Centre
1725	Adjourn Day 1 Session
	Greening the Research Fleet - Evening Reception and Poster Session Hosted by the Nicholas School of the Environment Energy and Environment Hub - Gross Chemistry Building 6:00 pm - 7:30 pm
Day 2,	January 11, 2012 – Executive Classroom
0730	Continental Breakfast at Thomas Center – Executive Prefunction Room
0830	Opening Remarks – Bruce Corliss
0840	<b>Emerging Sustainability &amp; Life Cycle Initiatives-Implications for Fleets &amp; Ports,</b> Jay Golden, Duke University
0900	Breakout Sessions:  Ship Design Vessel Environmental Classifications Vessel Operations Greening Port Facilities Science Opportunities with Sail-Assisted Vessels
1015	Break
1030	<b>Discussion of Breakout Topics</b> – Moderators will summarize the breakout session findings and recommendations.
1045	Formulate Preliminary Workshop Recommendations

1145 Workshop Wrap-Up and Closing Remarks

1200 Lunch and Adjourn Workshop

• Call for Volunteers to assist with the report preparation.