



UNOLS REPORT
Research Vessel Operators Committee
(RVOC)
April 24-26, 2012



UNOLS Office- Change in personnel

Erin Jackson- UNOLS Project Asst.-dep: new position Nov 2011

Caitlin Mandel- UNOLS Project Asst.- arr: January 2012

Pam Thompson- UNOLS Admin Asst.- transferred to main campus.- March 2012- currently hiring.

Alice Doyle- UNOLS Technical Services Manager- two year pilot program on Technician Recruitment and Retention completed in March 2012, will continue as a full time effort, subject to funding.

UNOLS Calendar

UNOLS- Celebrated 40th Anniversary in October 2011. We start our 4th year at URI/GSO on May 1, 2012.

Ocean Observing Science Committee- May 16, 2012 Wash. DC.

Fleet Improvement Committee- June 5-6, 2012- Cambridge, Mass.
Council- June 6-7, 2012 - Cambridge, Mass.

Deep Submergence Science Committee- June 13-14, 2012- Woods Hole.

Marcus Langseth Science Oversight Committee- June 20-21, 2012- Houston.

FIC/Council- Oct 22-23, 2012- Arlington, VA.

UNOLS Annual Mtg., Oct 23-24, 2012, Arlington, VA

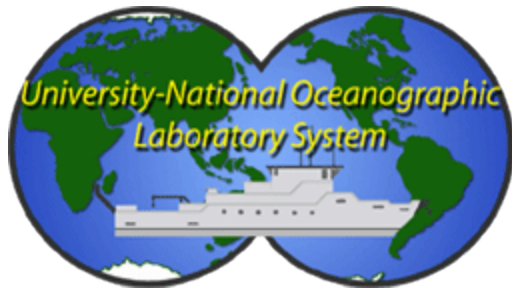
UNOLS Highlights

- UNOLS Office- Start Year 4 on May 2012
- Polar Research Vessel Refresh Project
- Appendix A & Appendix B Workshops
- CG MST's on UNOLS Ships
- Greening of the Fleet Workshop
- AGU/San Francisco & Ocean Sciences/SLC
- Sikuliaq Science Workshops
- Research Vessel Operators Committee- RVOC Mtg.

R/V Sikuliaq Science Workshops

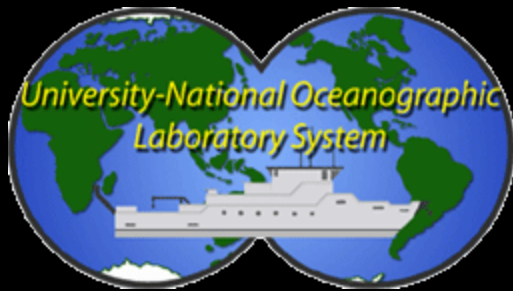
- May 10 & 11, 2011 Marinette, WI.
- Feb. 18 & 19, 2012- Salt Lake City, UT.

Vessel Characteristics, General Science Programs, Letters of Interest, and UNOLS Scheduling and Coordination were discussed in detail.



Greening the U.S. Academic Fleet: A UNOLS Workshop

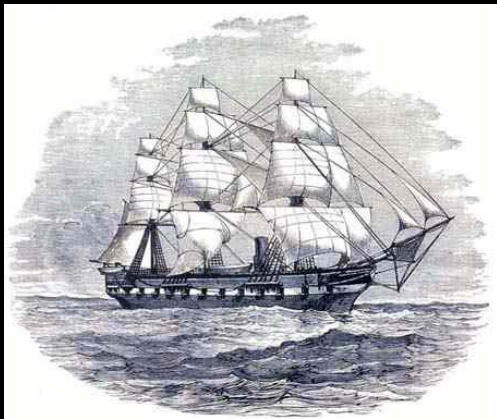
**Bruce H. Corliss
Duke University
RVOC Meeting
April 24-26, 2012**



Greening the Research Fleet

January 10-11, 2012

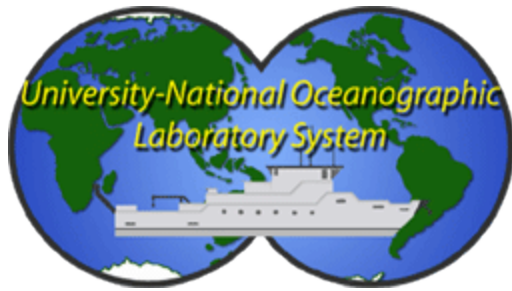
Nicholas School of the Environment



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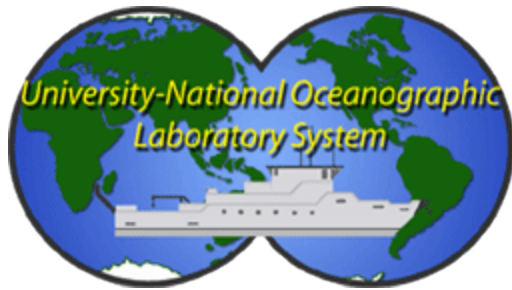
<http://www.geology.19thcenturyscience.org/books/hmsc.jpg>



Greening the U.S. Academic Fleet: A UNOLS Workshop

Objective: An Assessment of Current Technologies, Designs and Practices for Environmentally Sustainable Research Vessels

Composition: 50 participants, with representation from Council, RVOC, RVTEC, FIC, NSF, Navy, NOAA, architects and naval designers, industry, and marine scientists



Format: 1 ½ day workshop with invited presentations on various aspects of green ships: design, technology, practices; Breakout sessions and group discussions

Funding: Support of the workshop funded by NSF, ONR, and the Nicholas School of the Environment

Announcements: UNOLS website and mailing lists, advertisement for workshop in EOS

Organized by the UNOLS Office, URI

Participants

NSF

ONR

NOAA

UNOLS Office

Glosten Associates

Alaris Companies

ARUP

Foss Maritime

Kluber Lubrication North America

Eurofleet Project

Royal Caribbean Cruises

Tara Consortium

Tactical Marine Solutions

Harley Marine Services

Maersk Line, Limited

Wing Systems

Seacraft Design

DRDC Atlantic

Maritime Reporter Group

Aspin Kemp and Associates

Participants-UNOLS Members

Oregon State University

Duke University

University of Rhode Island*

Columbia University*

Penn State

Bermuda Institute of Ocean Sciences*

University of South Florida (FIC)

University of Maine

Ocean Exploration Trust-GSO- URI

LUMCON*

WHOI

UW

UNCW

University of Miami

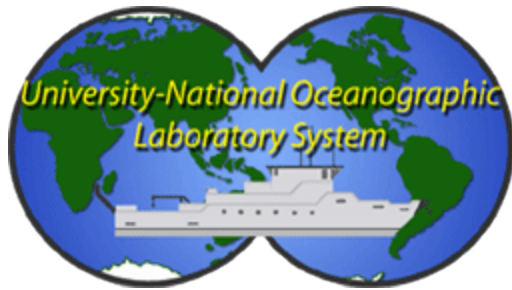
Skidaway

Humboldt State University

Consortium for Ocean Leadership

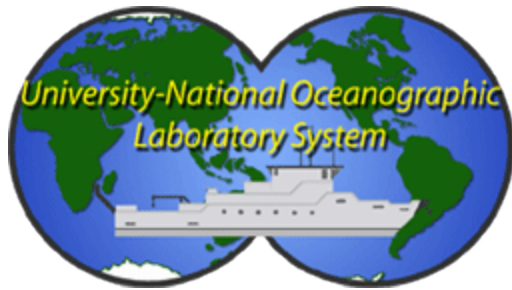
Schmidt Ocean Institute

*RVOC Member



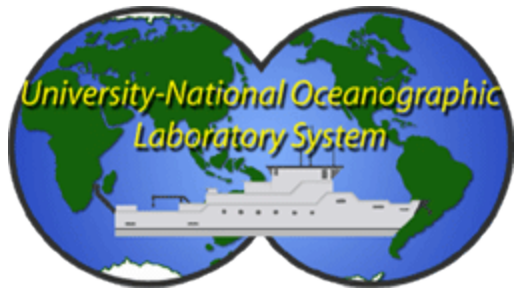
LONG TERM GOALS:

- 1) Promote environmental sustainability within UNOLS
- 2) Guidelines for construction, operation and recycling of UNOLS Research Vessels
- 3) Development of green vessel guidelines for U.S. vessels (outreach)
- 4) Promote environmental awareness on UNOLS ships with U.S. ocean scientists (outreach)
- 5) Ocean Class and Regional Class vessel construction



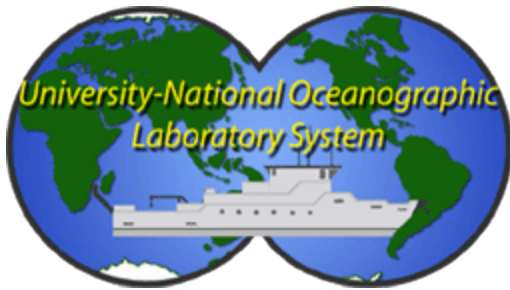
Green Workshop Findings

1. Sail-assist vessels with a small environmental footprint can be used for particular operations.
2. Hybrid power systems and new technologies should be considered as options for future vessels.
3. Vessel energy management consisting of detailed energy audits and on-going monitoring can be carried out with existing vessels.
4. Biofuels and bio-lubricants and an environmental management plan can reduce a vessel's environmental impact and may be appropriate for some vessels.



Green Workshop Findings

5. Development of an environmental classification system, similar to LEED, is underway (Tim Leach, Glosten Assoc.) and will help operators and agencies identify environmental issues and successes in the fleet.
6. Environmental sustainability of UNOLS support facilities and ports should be considered in parallel with vessels.
7. Environmental sustainability can be enhanced by incorporating both technological innovation and attitude changes (green culture) amongst ship operators and users.



Green Workshop Findings

8. Developing collaborations between UNOLS, ship operators, and the private sector will be beneficial to the fleet.

More information on the meeting at:

http://unols.org/meetings/2012/green_workshop/details.html

<http://www.digitalwavepublishing.com/pubs/NWM/marinetechnologyreporter/201203/>