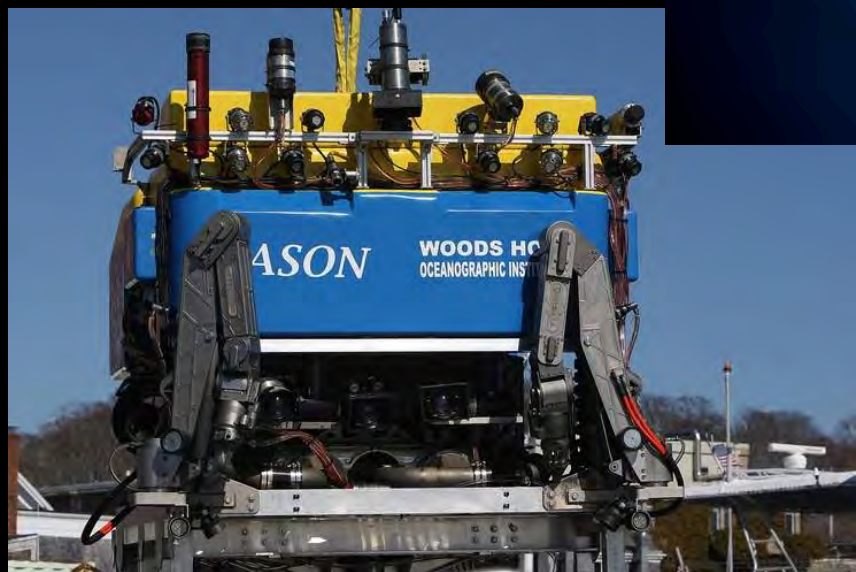


DeSSC spring meeting May 19th, 2016



DeSSC membership

Current members

Amanda Demopoulos (*USGS*)

Dave Emerson (*Bigelow*)

Vicki Ferrini (*LDEO*)

Peter Girguis, Chair (*Harvard*)

Nick Hayman (*UTIG*)

Laura Lapham (*Univ. Maryland*)

George Luther (*Univ. Delaware*)

Cindy Van Dover (*Duke*)

John Wiltshire (*Univ. Hawaii*)

Rob Munier (*ex-officio, WHOI*)

Tim Shank (*ex-officio, WHOI*)

Adam Soule (*ex-officio, WHOI*)



Electing new DeSSC members

DeSSC member

- Representing aquatic/hard rock geochemistry, mapping/data mgmt.
- Looking to maintain expertise, gender balance, career stage

DeSSC chair

- I'm rotating off after this meeting; three applications were received

DeSSC voted yesterday on these applicants

- Our votes constitute recommendations to the UNOLS Council, who will give their consent or otherwise.

New DeSSC member nominations

- Brian Glazer
 - University of Hawaii, biogeochemist, technologist, mid career scientist
- Scott White
 - University of South Carolina, geologist/mapping, mid career scientist
- Craig Dawe
 - MBARI, research engineer/technologist, ROV pilot, MARS observatory manager, senior engineer



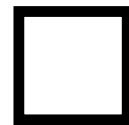
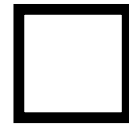
New DeSSC chair nominee

Anna Louise Reysenbach

- microbiologist, experienced vehicle user, experience in leadership, good communication skills, senior scientist

Will have to meet the following NEW DeSSC chair pre-requisites

1. No children under the age of 12 that spread disease.
2. Provide evidence of all vaccinations
3. Be willing to stay in quarantine 3-5 days before each DeSSC meeting.



Other topics of conversation

- DeSSC “vice chair”
 - The goal is to identify a person on DeSSC who will work with the chair to ensure that either the chair or the vice chair is in attendance at all DeSSC and UNOLS meetings, to assist with DeSSC activities, etc.
 - One year commitment
- *Ad hoc* volunteers
 - We will continue to engage members of the community who want to contribute to DeSSC activities without formally joining the committee
 - Could include leading special projects, e.g. engaging with the polar research community

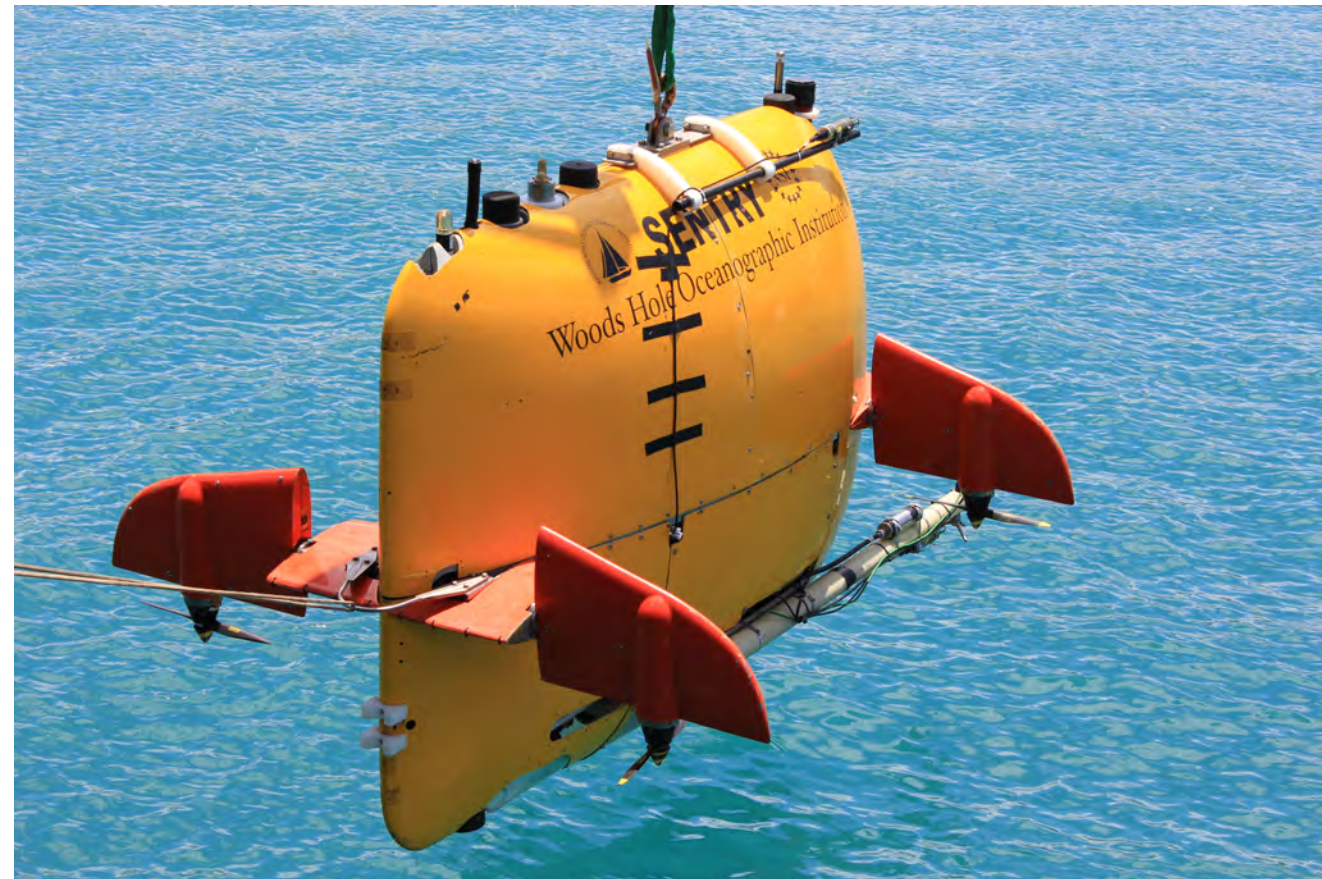
Unfinished business

- Identifying a vice chair
- A new *Sentry* “friend”
- A “new user group” advocate
 - Vicki Ferrini is rotating off DeSSC
- Someone to take the lead on updating the DeSSC Facebook page and other social media

DeSSC and NDSF: A 5 year retrospective

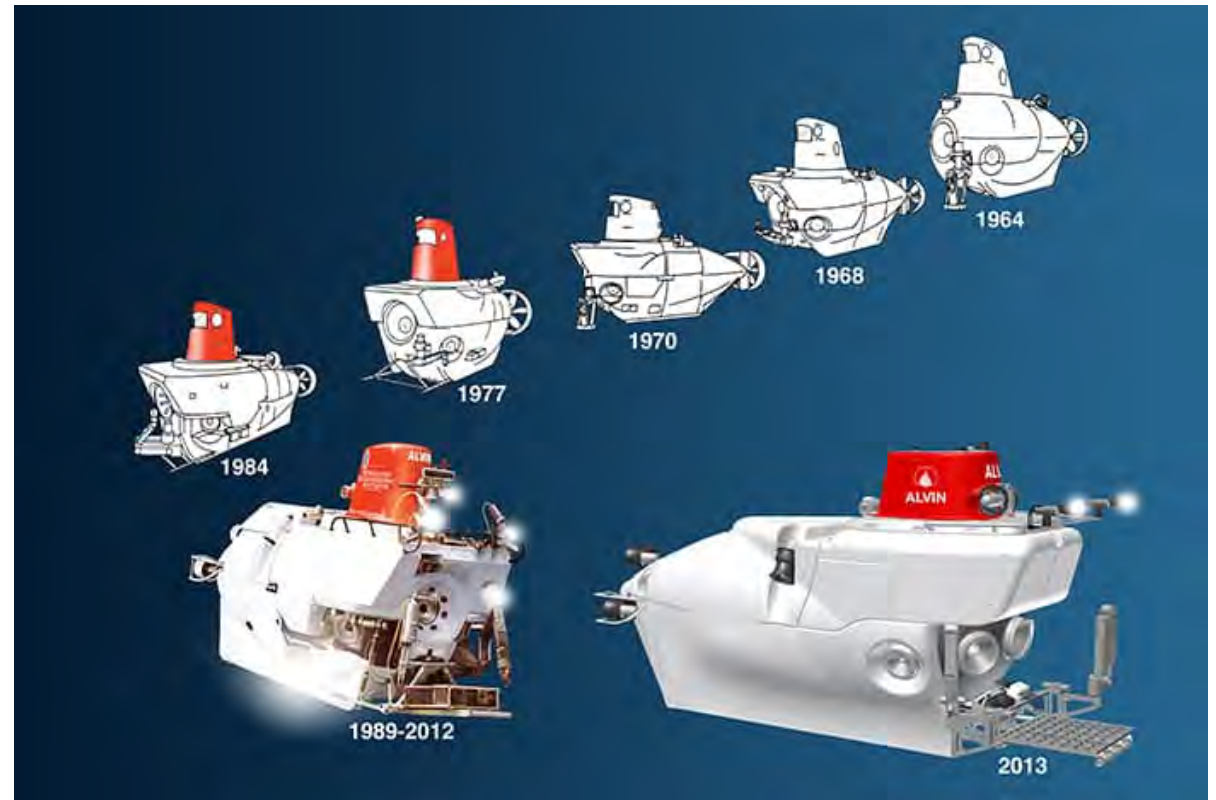


- Transitioning the *AUV Sentry* into service after the loss of ABE in March 2010
 - DeSSC provided guidelines for making *Sentry* mgmt team more versatile, robust
 - NDSF responded by re-structuring leadership, expanding roles, etc

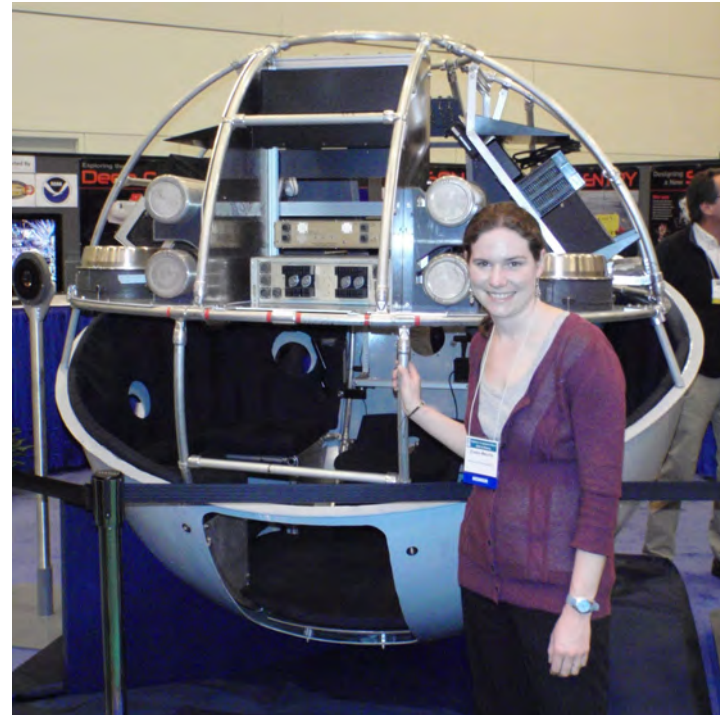


- Engaged with NDSF and RHOC regarding the *HOV Alvin* upgrade

- Choice of imaging and lighting systems
- sphere ergonomics
- data mgmt
- NAVSEA/ABS certification
- Many many more...



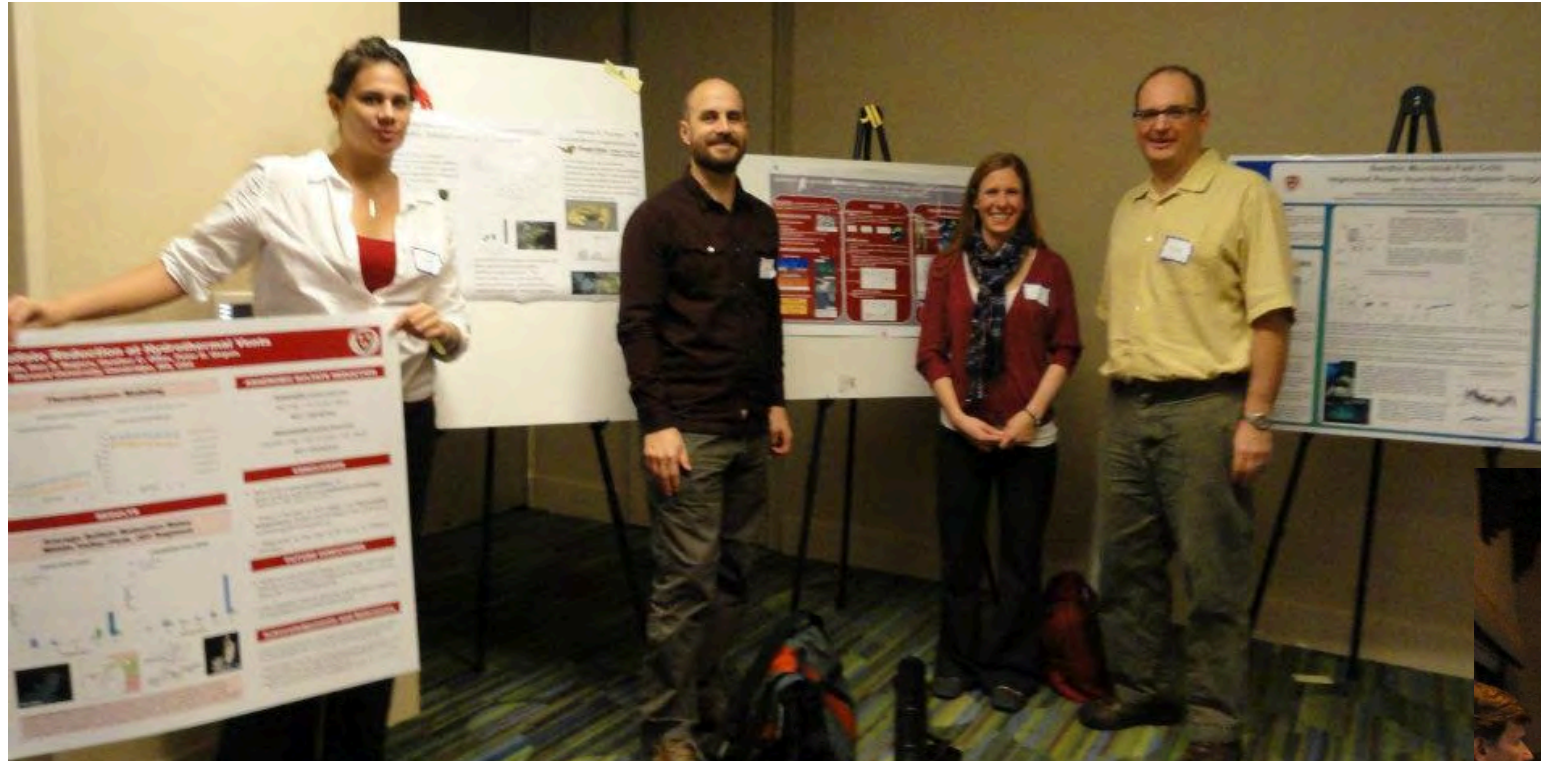
- Advocated for an **NDSF booth** that included the *HOV Alvin* mockup sphere **at the fall AGU meeting** (and raffling off a viewport!)



- **Developed a process for photo accreditation and attribution**
 - Hopefully put to rest the question of copyright
 - WHOI copyright continues to be a practical solution
- **Addressed issues regarding shipboard data mgmt.**
 - identifying the key responsibilities of shipboard NDSF staff vs. the scientific party



- **Launched a program to engage early career scientists** at the fall AGU meeting (the new user program, or NUP)



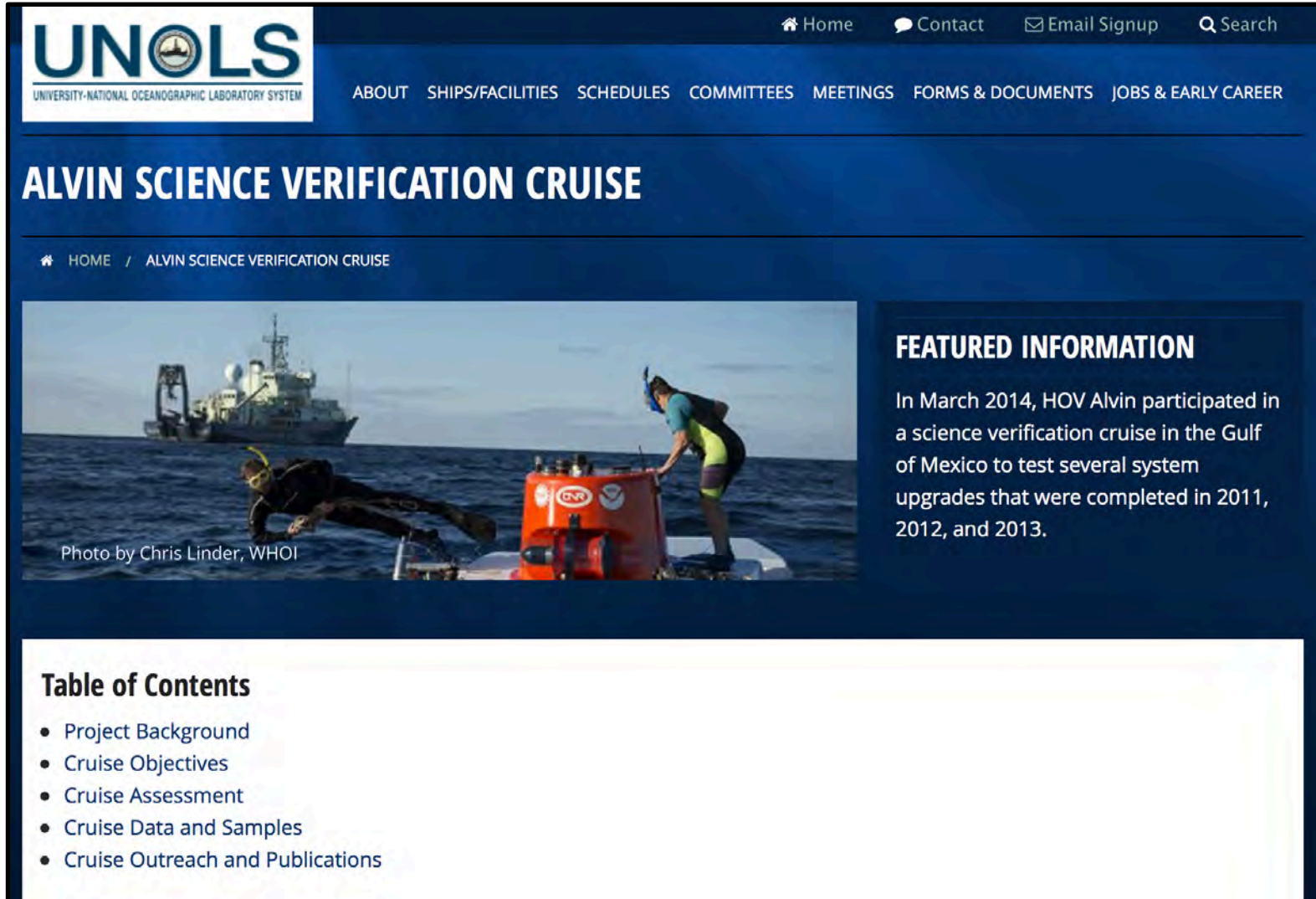
Five years and still running...



- **Feedback on use of new LARS for JASON**
- *Worked with ROV Jason to incorporate SUPR pumping system into their facility (though I'm not sure if this is well known.)*



- **Alvin upgrade science verification cruise**
 - Versions 1.0, 1.5, 2.0, and 3.0 (2012-2014)



The screenshot shows the UNOLS website page for the Alvin Science Verification Cruise. The page has a dark blue header with the UNOLS logo (University-National Oceanographic Laboratory System) on the left and navigation links (Home, Contact, Email Signup, Search) on the right. Below the header is a main navigation menu with links for ABOUT, SHIPS/FACILITIES, SCHEDULES, COMMITTEES, MEETINGS, FORMS & DOCUMENTS, and JOBS & EARLY CAREER. The main content area features a large blue banner with the title "ALVIN SCIENCE VERIFICATION CRUISE" and a breadcrumb trail "HOME / ALVIN SCIENCE VERIFICATION CRUISE". Below the banner is a photograph of the Alvin submersible being deployed from the deck of a ship. A diver is visible in the water next to the orange submersible. The photo is credited to "Photo by Chris Linder, WHOI". To the right of the photo is a "FEATURED INFORMATION" section with the text: "In March 2014, HOV Alvin participated in a science verification cruise in the Gulf of Mexico to test several system upgrades that were completed in 2011, 2012, and 2013." Below the featured information is a "Table of Contents" section with a list of links: Project Background, Cruise Objectives, Cruise Assessment, Cruise Data and Samples, and Cruise Outreach and Publications.

UNOLS
UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

Home Contact Email Signup Search

ABOUT SHIPS/FACILITIES SCHEDULES COMMITTEES MEETINGS FORMS & DOCUMENTS JOBS & EARLY CAREER

ALVIN SCIENCE VERIFICATION CRUISE

HOME / ALVIN SCIENCE VERIFICATION CRUISE




Photo by Chris Linder, WHOI

FEATURED INFORMATION

In March 2014, HOV Alvin participated in a science verification cruise in the Gulf of Mexico to test several system upgrades that were completed in 2011, 2012, and 2013.

Table of Contents

- Project Background
- Cruise Objectives
- Cruise Assessment
- Cruise Data and Samples
- Cruise Outreach and Publications

- Promoted NDSF data archiving at the MGDS
- Worked to help develop the post cruise assessment form (PCAR)
- Developed responses to the NRC's *Sea Change* report

Post Cruise Assessment Report Information	
PCAR ID:	100405
Date Created:	11/19/2012 2:40:00 PM
Date Modified:	11/19/2012 3:06:00 PM
Cruise Information	
Ship:	Knorr
Cruise Dates:	10/16/2012 - 11/9/2012
Cruise Number:	KN209-02
Area of Operations:	NA10
Chief Scientist:	
PIs and Funding Agencies:	
PI:	George W. Luther, UDEL_CEOE
Type of Work:	Pyrite nanoparticles
Funding Agency:	NSF/OCE/MGG
Grant #:	1131109
PI:	Andrew D. Bowen, WHOI
Type of Work:	Jason Engineering Dv
Funding Agency:	NSF/OCE/IPS
Grant #:	
PI:	Ruth Curry, WHOI
Type of Work:	DynAMITE
Funding Agency:	NSF/OCE/PO
Grant #:	0926848
PI:	
Type of Work:	ROV JASON
Funding Agency:	OTHER
Grant #:	
Ship Personnel	
Master:	Kent Sheasley
Marine Technician:	Amy Simoneau and Anton Zafereo
Completer's Information:	
Person's Name:	Dr. George W. Luther III.
Position on this cruise:	PI/Chief Scientist
Institution:	University of Delaware, College of Earth, Ocean and Environment
Assessment:	
1. To what extent were the planned science objectives of this cruise met?	

- **Developed and hosted the DESCEND-2 workshop in Cambridge, MA**
 - *thanks to DeSSC, Dan Fornari, Adam Soule and many others*

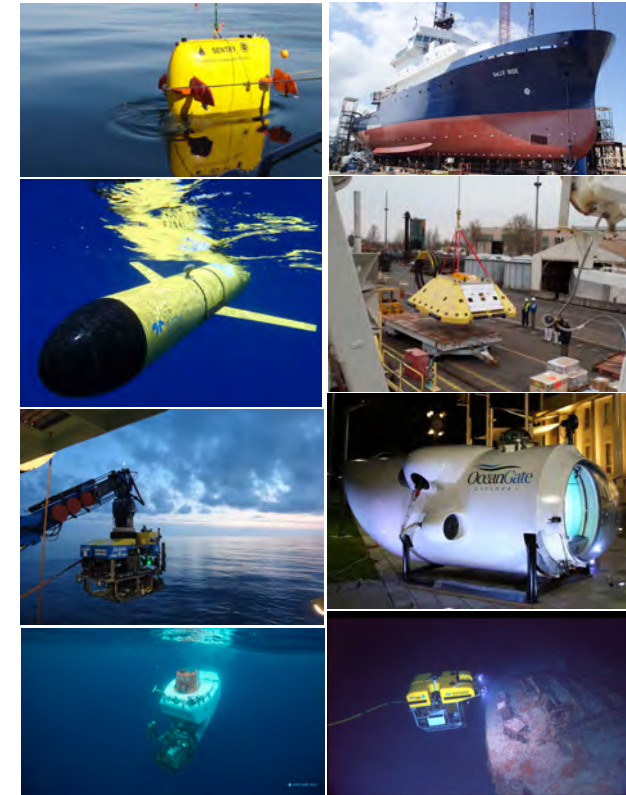
DESCEND-2 Workshop

(DEveloping Submergence SCience for the Next Decade – 2)

January 14th and 15th, 2016

Harvard University

<http://projects.iq.harvard.edu/descend2>



Photos courtesy WHOI, SIO, Webb Engineering, Univ of Washington, OceanGate, Ocean Exploration Trust

- **Upcoming video workshop to develop/promote best practices in video data mgmt.**
 - *led by Vicki Ferrini, Dwight Coleman and Adam Soule*
- **Alvin Chief Scientist training cruise**
 - *led by Cindy Van Dover and many others*



Projects in progress

- **Not sure we've fully implemented the photo attribution process**
 - Are we consistently giving PIs a chance to work with their science party to identify their photos? Are PIs forgetting to do this?
- **Mentoring program for new users**
 - not sure if that's been well utilized
- **Optimizing video access and archiving**
- **Working to engage polar research community**
- **Incorporation of additional tools / technologies into the NDSF vehicles (pumps, sensors, etc)**

DeSSC: a 5 year retrospective on membership

A HUGE THANK YOU to all those who have served on DeSSC since 2010:

Bill Chadwick, Amanda Demopoulos, David Emerson, Vicki Ferrini, Breea Grovenar, Chris German (*ex officio*), Nick Hayman, Samantha Joye, Deb Kelley, Jeff Karson, George Luther, Laura Lapham, Rob Munier (*ex officio*), Evan Soloman, Timothy Shank (*ex officio*), Adam Soule (*ex officio*), Mike Tryon, Cindy Van Dover, John Wiltshire, Craig Young, Marsh Youngbluth, Wiebe Ziebis

A GIGANTIC thank you to Annette DeSilva

