

# DeSSC fall meeting December 11<sup>th</sup>, 2016



# DeSSC membership

## Current members

Amanda Demopoulos (*USGS*)  
Craig Dawe (*MBARI*)  
Dave Emerson (*Bigelow*)  
Brian Glazer (*Univ. Hawaii*)  
Nick Hayman (*UTIG*)  
Laura Lapham (*Univ. Maryland*)  
Anna-Louise Reysenbach (*PSU*)  
Cindy Van Dover (*Duke*)  
Scott White (*Univ. South Carolina*)

Rob Munier (*ex-officio, WHOI*)  
Tim Shank (*ex-officio, WHOI*)  
Adam Soule (*ex-officio, WHOI*)

**Anna Louise Reysenbach (Portland State Univ); new DeSSC chair**

microbiologist, experienced vehicle user,  
experience in leadership, good communicator

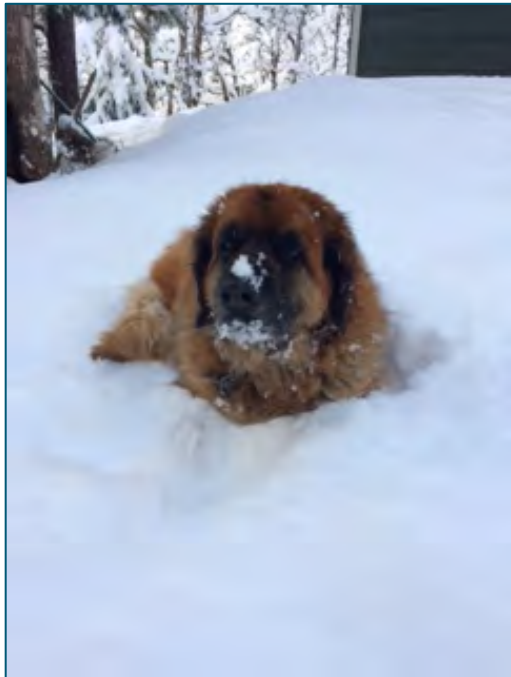




# New DeSSC chair

## Anna Louise Reysenbach

- microbiologist, experienced vehicle user (Alvin and Jason and other vehicles), experience in leadership, great communicator, senior scientist



**Where is Anna Louise? -  
Stuck in the snow and  
ice of Oregon with Tinka  
the dog.**



# New DeSSC members

- 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



# Other topics of conversation

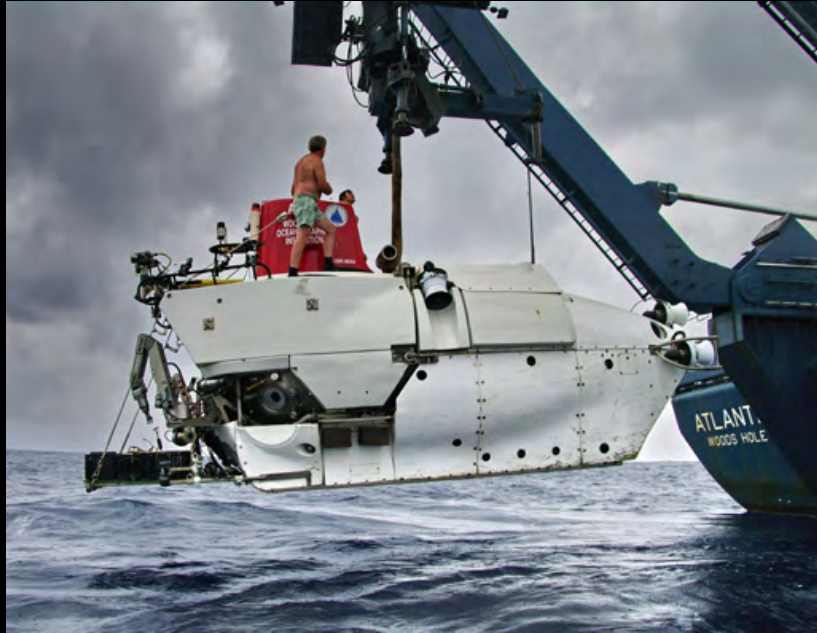
- DeSSC “vice chair”
  - The goal is to identify a person on DeSSC who will work with the chair to ensure that either the chair to the vice chair is in attendance at all DeSSC and UNOLS meetings, to assist with DeSSC activities, etc.
  - One year commitment
- *Ad hoc* volunteers
  - We will continue 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

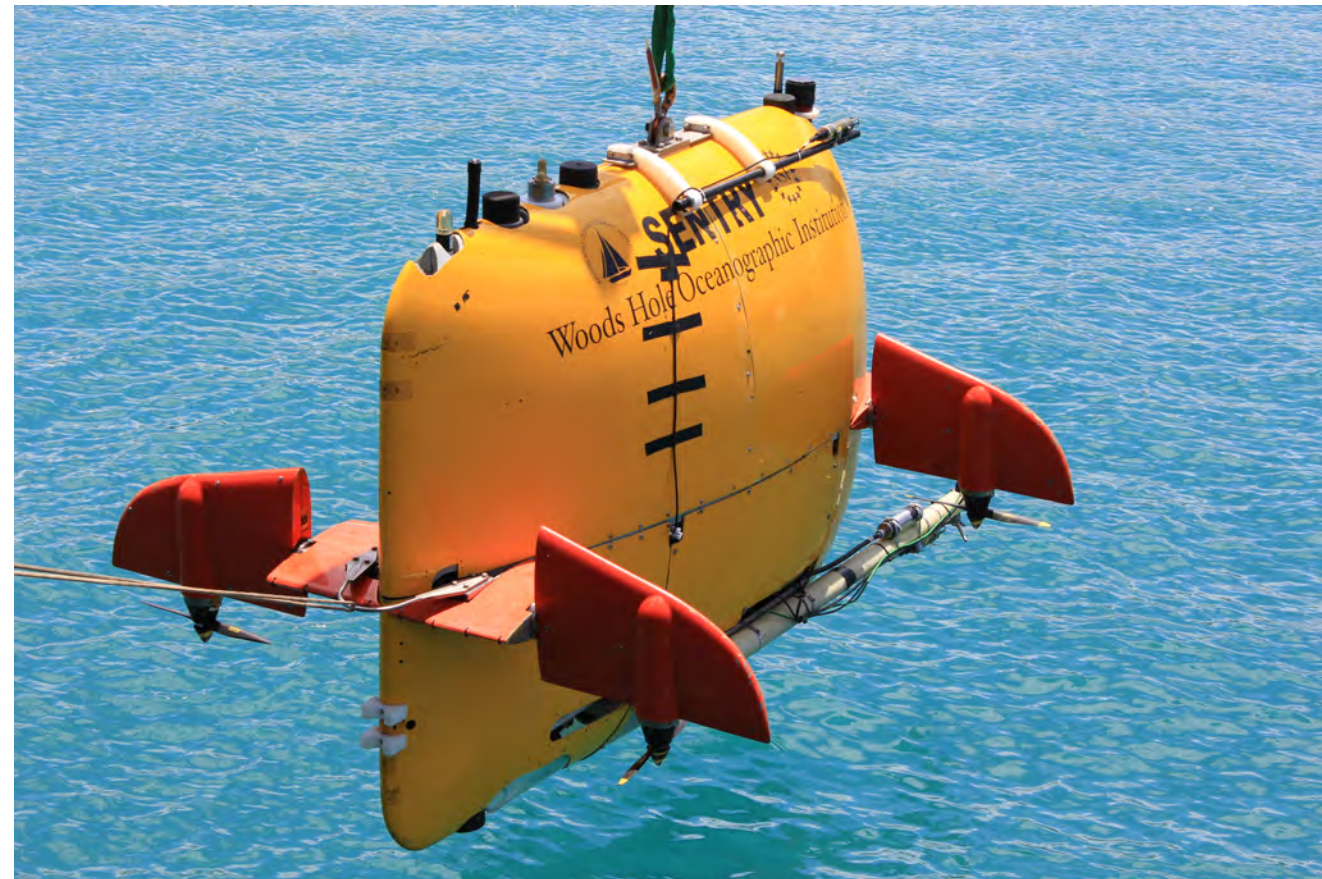
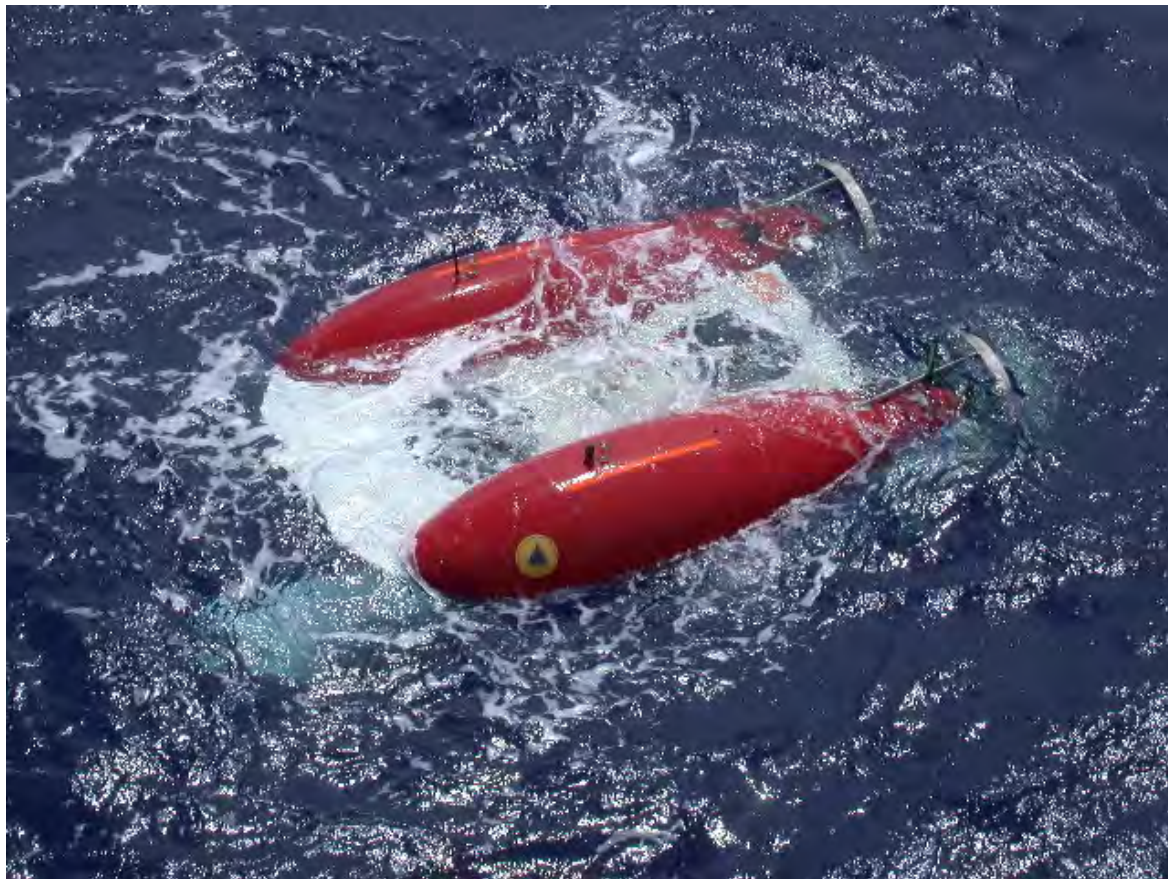


# DeSSC and NDSF: A 5 year retrospective



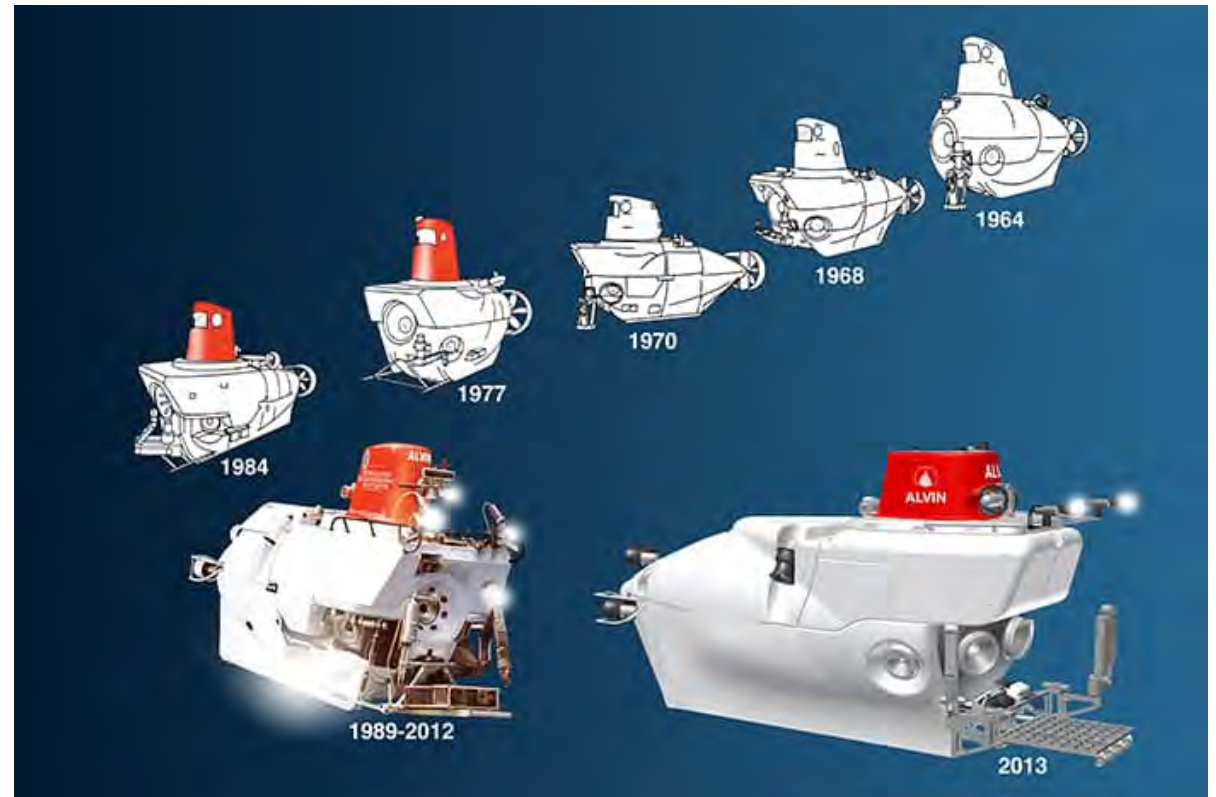


- Transitioning the *AUV Sentry* into service after the loss of ABE in March 2010
  - DeSSC provided guidelines for making *Sentry* mgmt team more versatile, robust
  - NDSF responded by re-structuring leadership, expanding roles, etc





- 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!)

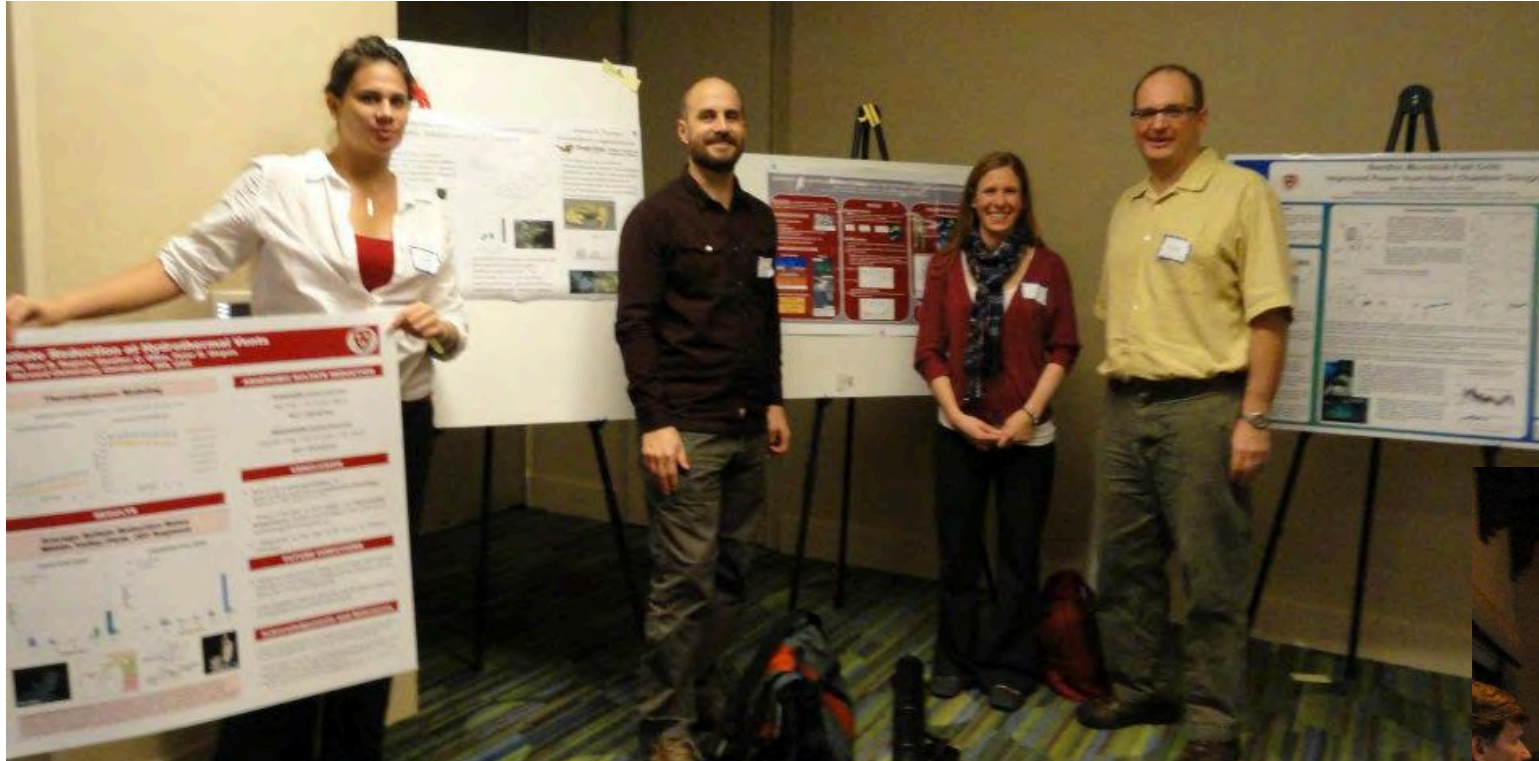




- **Developed a process for photo accreditation and attribution**
  - Hopefully put to rest the question of copyright
  - WHOI copyright continues to be a practical solution
- **Addressed issues regarding shipboard data mgmt.**
  - identifying the key responsibilities of shipboard NDSF staff vs. the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



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## ALVIN SCIENCE VERIFICATION CRUISE

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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.

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- 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	
<b>PCAR ID:</b>	100405
<b>Date Created:</b>	11/19/2012 2:40:00 PM
<b>Date Modified:</b>	11/19/2012 3:06:00 PM
Cruise Information	
<b>Ship:</b>	Knorr
<b>Cruise Dates:</b>	10/16/2012 - 11/9/2012
<b>Cruise Number:</b>	KN209-02
<b>Area of Operations:</b>	NA10
<b>Chief Scientist:</b>	
PIs and Funding Agencies:	
<b>PI:</b>	George W. Luther, UDEL_CEOE
<b>Type of Work:</b>	Pyrite nanoparticles
<b>Funding Agency:</b>	NSF/OCE/MGG
<b>Grant #:</b>	1131109
<b>PI:</b>	Andrew D. Bowen, WHOI
<b>Type of Work:</b>	Jason Engineering Dv
<b>Funding Agency:</b>	NSF/OCE/IPS
<b>Grant #:</b>	
<b>PI:</b>	Ruth Curry, WHOI
<b>Type of Work:</b>	DynAMITE
<b>Funding Agency:</b>	NSF/OCE/PO
<b>Grant #:</b>	0926848
<b>PI:</b>	
<b>Type of Work:</b>	ROV JASON
<b>Funding Agency:</b>	OTHER
<b>Grant #:</b>	
Ship Personnel	
<b>Master:</b>	Kent Sheasley
<b>Marine Technician:</b>	Amy Simoneau and Anton Zafereo
Completer's Information:	
<b>Person's Name:</b>	Dr. George W. Luther III.
<b>Position on this cruise:</b>	PI/Chief Scientist
<b>Institution:</b>	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*

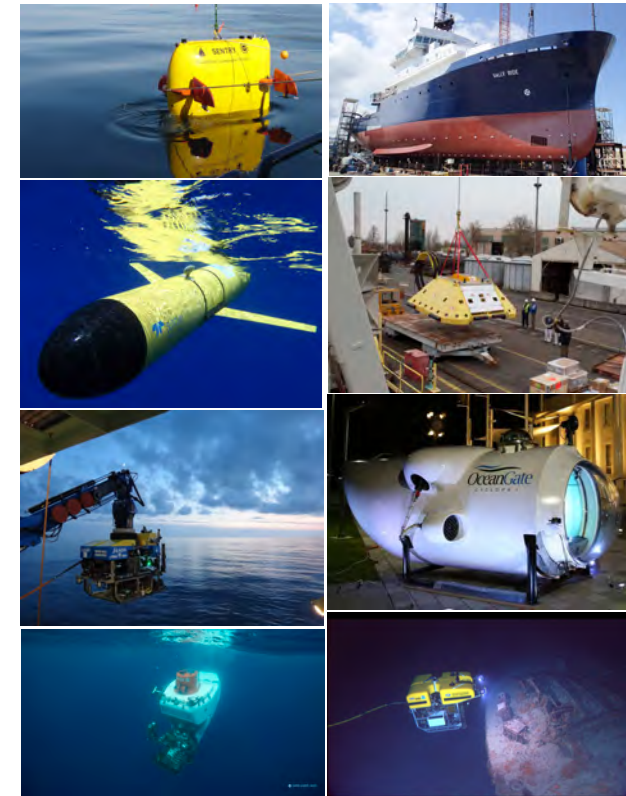
## DESCEND-2 Workshop

(DEveloping Submergence SCienceE for the Next Decade – 2)

January 14<sup>th</sup> and 15<sup>th</sup>, 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)**
- **Interfacing with the advances in automation well beyond**



## **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**

