



## UNOLS News

Exciting updates from UNOLS & the Academic Research Fleet!

December 2018 - Volume 32, No. 3

### Record-Breaking Attendance at INMARTECH 2018



INMARTECH 2018 Participants in their knit hats. Photo c/o Caitlin Mandel UNOLS.

The 2018 International Marine Technician (INMARTECH) Symposium saw record-breaking attendance from marine technicians around the world. The event was co-hosted by Woods Hole Oceanographic Institution (WHOI) and UNOLS and took place October 16 - 18 at the Sea Crest Beach Hotel in Falmouth, MA and WHOI.

Presentations and technical demonstrations covered topics such as Sensors and Observing Systems, Data Collection and Management, and Ship/Shore Communications. Skillset sessions provided attendees with hands-on training in areas such as winch operations and troubleshooting, serial data, and wire termination.

Several tours offered during the week included R/V *Neil Armstrong*, WHOI laboratories, and local vendors who specialize in marine research technology. The Exhibitor Hall held engaging booths and exhibits from the event sponsors and marine vendors, including Rapp Marine/Triplex's booth which featured a Virtual Reality experience where participants could operate a deck crane on the future R/V *Taani*!

UNOLS would like to thank WHOI, our attendees,



#### UNOLS EVENTS

[2018 NSF UNOLS Chief Scientist Training Cruise](#)

**December 3-22, 2018**

**R/V Atlantis**

[2018 DESSC New User Program \(NUP\)](#)

**December 8, 2018**

**Washington, DC**

[2018 DESSC Annual Community Meeting](#)

**December 9, 2018**

**Washington, DC**

[2018 MSROC Winter Meeting](#)

**December 9, 2018**

**Washington, DC**

[2018 FIC Fall Meeting](#)

**December 18, 2018**

**Alexandria, VA**

[2019 AICC Winter Meeting](#)

**January 23-24, 2019**

**Seattle, WA**

[2019 FIC Spring Meeting](#)

**March 26-27, 2019**

**Narragansett, RI**

[2019 Council Spring Meeting](#)

**March 27-28, 2019**

**Narragansett, RI**

presenters and our event sponsors (Rapp Marine/Triplex, Kongsberg, Worldlink Communications, Scanmar, Hawboldt Industries, Markey, Sonardyne, McLane Research Laboratories, AML Oceanographic, MacArtney Underwater Technology, Hydroid, Edgetech, and Teledyne Marine) for making the meeting a success!

You can view more information on the 2018 INMARTECH Meeting, as well as the event presentations and photos on [our website](#).

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## Committee News

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### Call for Nominations!

UNOLS is currently seeking nominations for open positions on three of our committees. [Please click here](#) to learn more about the positions and the focus of each committee.

**Deep Submergence Science Committee (DeSSC) – 3 positions**

**Fleet Improvement Committee (FIC) – 2 positions**

**Scientific Committee for Oceanographic Aircraft (SCOAR) – 1 position**

*The Deadline for Nominations is December 31, 2018*

### Welcome New Committee Members!

All of our committees are staffed by volunteers, and we are grateful for their time, experience and contributions. We would like to welcome the following individuals to UNOLS!

- Quentin Lewis (BIOS) became SSC Chair in May
- James Austin (UT-Austin) was appointed to the Fleet Improvement Committee (FIC) in June
- John Bichy (U of Georgia/SKIO) became SSC-Chair-elect in July
- Lee Ellett (SIO) became the new RVTEC Chair in October
- Jules Hummon (U Hawaii) became RVTEC Chair-elect in October
- Craig Lee (UW) became our UNOLS Chair in November
- Dennis Hansell (U Miami) became our Chair-Elect in November
- David Smith (URI) was elected to the Council in November

### [2019 RVOC Meeting](#)

**April 23-25, 2019**

**La Jolla, CA**



#### FEATURED PHOTO

Dan Fornari (WHOI) holds a master class in the planning and organization of Alvin's science basket on the NSF-UNOLS Chief Scientist Training Cruise, which is currently en route to study seamounts in the East Pacific Rise. (Photo by Ken Kostel, Woods Hole Oceanographic Institution). Follow the cruise's [blog](#) for more updates!

To submit a photo of the month, please email [office@unols.org](mailto:office@unols.org)

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#### ARCHIVED NEWSLETTERS

Past UNOLS Newsletters can be found on the [UNOLS Website](#)



#### FROM THE EDITOR

I would like to thank all who contributed information and articles for this issue of UNOLS News. Articles are always welcome and encouraged. Copy can be submitted by e-mail to [office@unols.org](mailto:office@unols.org).

Thank you,

**Annette DeSilva**

**Managing Editor**, UNOLS News

E-mail: [office@unols.org](mailto:office@unols.org)

Phone: (401) 874-6827

- Anita Lopez (U Hawaii) was elected to the Council in November

## UNOLS Recognizes Outgoing Committee Members



*UNOLS Executive Secretary Jon Alberts presents a Certificate of Appreciation to outgoing UNOLS Chair Deborah Steinberg (VIMS) at the 2018 Annual Meeting. Photo c/o Caitlin Mandel, UNOLS.*

We would like to thank the following individuals for their contributions to the UNOLS community:

- Debbie Steinberg (VIMS) for serving as UNOLS Chair
- Scott Ferguson (U Hawaii) for serving as RVTEC Chair and on Council
- Chris Measures (U Hawaii) for serving on Council
- Bruce Appelgate (SIO) for serving on Council
- Elizabeth Kujawinski (WHOI) for serving on Council
- Cindy Van Dover (Duke) for serving on DeSSC
- Nick Hayman (U Texas) for serving on DeSSC
- Raphael Kudela (UCSC) for serving on SCOAR
- Laura Lapham (UMCES) for serving on DeSSC
- Craig Dawe (MBARI) for serving on DeSSC
- Amanda Newborn (NOAA) for serving on FIC
- Doug Ricketts (UMN) for serving on SSC

## Early Career Program Updates

## DeSSC New User Program at AGU 2018



### CO-EDITORS

Caitlin Mandel  
Elena Zanzarov

### ASSISTANT EDITORS

Hannah Dallas

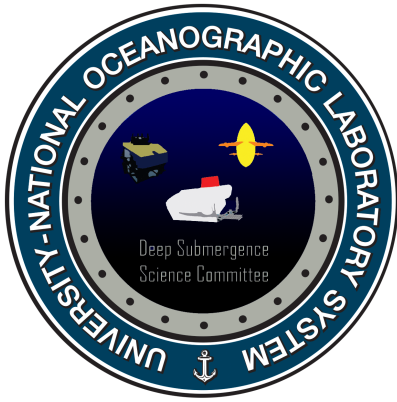


### CONTACT US

UNOLS  
URI-GSO  
215 South Ferry Rd.  
Narragansett, RI 02882

(401) 874-6825  
office@unols.org

### SHARE THIS EMAIL



The DeSSC (Deep Submergence Science Committee) New Users Program will be held on Saturday, December 8th, prior to the DeSSC Community meeting on Sunday, December 9th. Twenty-eight new user participants have been selected to participate in their year's event. Through the New Users Program, DeSSC works to increase the involvement of students and early career scientists. During this workshop, participants will have the opportunity to learn about DeSSC, deep submergence facilities, and to network with some of the field's most experienced deep-sea scientists who will share their knowledge on deep-sea research, program funding, data management, and technology. To review materials from past NUP events, please click [here](#).

## NSF-UNOLS R/V *Atlantis* Chief Scientist Training Cruise Open House

**DEEP-SEA EXPLORATION**  
IN THE 21<sup>ST</sup> CENTURY

**Tour the research vessel Atlantis**

**Dive into Ocean Exploration**

- Tour the 274-foot research vessel *Atlantis*
- Meet *Alvin*, a deep-diving submersible, and the autonomous robot *Sentry*
- Chat with young scientists beginning careers in ocean science and engineering
- Learn what it means to be a modern-day explorer

**SAT. Dec. 22 2018**  
9:30 AM - 2:30 PM PST  
B Street Pier, 1140 N. Harbor Drive, San Diego, CA 92101

Reserve your ticket for the R/V *Atlantis* & *Alvin* tour at [atlantis-tour.eventbrite.com](http://atlantis-tour.eventbrite.com)

ORGANIZERS: National Science Foundation, Office of Naval Research, Woods Hole Oceanographic Institution, Scripps Institution of Oceanography & Birth Aquarium at Scripps, National Oceanic and Atmospheric Administration, University National Oceanographic Laboratory System, American Geophysical Union.



Please join us on Saturday, December 22 from 9:30am-2:30pm for the FREE Deep-Sea Exploration in the 21st Century Open House in San Diego, California. There will be opportunities to learn about the research that scientists are conducting to help gain a better understanding of our

ocean planet, as well as the chance to meet scientists to learn what it is like to be a modern-day explorer. The ship tours are fully booked, but the public is welcome to come to the B Street Pier to see the many shore-side displays and oceanographic instruments.

## UNOLS Community Updates

### Green Boat IV Workshop



The UNOLS Green Boats and Ports for Blue Waters Workshop is a biennial event held to discuss marine greening initiatives and emerging sustainable technologies. Topics covered at the 2018 meeting held in August included alternative power technologies for research vessels, making ports and marines sustainable and resilient to the effects of climate change, and green certification programs. Featured presentations were delivered by Jonelle Simunich from ARUP who spoke about Resilient and Regenerative Cities, and John Morris from the U.S. Coast Guard who discussed Coast Guard Pollution Prevention Programs.

This was the first time the Green Boat workshop was held on the West Coast and UNOLS would like to thank Don Hilliard and Oregon State University for hosting! We would also like to thank Oregon State University, the Port of Portland, Siemens, and Peterson Cat for sponsoring the event. [Click here](#) to view the Green Boat IV Presentations!

### FIC Global SMR Town Hall at AGU



One of the current Global Class vessels, R/V Revelle, photo c/o Paul Mauricio.

The UNOLS Fleet Improvement Committee (FIC) will host a Town Hall Session at the upcoming AGU Meeting to gather input on the science community's requirements for the next class of Global research vessels. Input from this meeting will help FIC write Science Mission Requirements (SMRs) that reflect the needs of the broad ocean science community. Early career to senior scientists should come to the meeting with experience-based ideas for a next-generation ship that will facilitate both discipline-specific and interdisciplinary research. The session will take place on Thursday, December 13th, 2018 from 6:15pm to 7:15pm at the Marriott Marquis, Independence Room F - H. [Click here](#) for more details!

## UNOLS Office Transition Update

Merriam-Webster defines **transition** as a passage from one state, stage, subject, or place to another, or evolution from one form, stage, or style to another.

On April 30, 2019, after a decade of being hosted at the University of Rhode Island's Graduate School of Oceanography, (URI/GSO) the UNOLS Office will officially transition to its new host institution, the University of Washington. Since we began on May 1, 2009, there have been many changes in the U.S. oceanographic community. Older ships have been retired and new ships have joined the UNOLS fleet. New advisory committees have been formed and others have completed important tasking with positive results. It has been a busy ten years, with many successes, and in keeping with the UNOLS Charter, the Office will move to a new UNOLS Institution on May 1, 2019. In September of 2017, we announced an open competition for the next office and the response was remarkably strong with nine UNOLS Operating Institutions

submitting letters of intent to submit proposals. On March 16, 2018, proposals were due and we received six excellent proposals. Over the summer of 2018, an Evaluation Committee carefully reviewed each proposal and on August 15, 2018, the University of Washington, (UW) was notified that they had been selected.

Captain Doug Russell, currently the Manager of Marine Operations at the University of Washington's School of Oceanography has been selected as the next UNOLS Executive Secretary. Alice Doyle, currently the UNOLS Technical Services Manager will become the new UNOLS Deputy Executive Secretary. Dennis Nixon/URI will continue in his role as UNOLS legal and risk manager. The Univ. of Washington is presently putting together the rest of the UNOLS team.

Fortunately, the transition will take place over a long time span, which includes weekly tele-conferences, and in person meetings between URI/GSO and UW. There is a lot of information to exchange and both the current UNOLS Office members and the new office are working closely together to make this a smooth transition.

As we evolve from one form, stage, or style to another, the next UNOLS office at the University of Washington will bring a fresh perspective and ideas to further enhance the UNOLS Office and the oceanographic community we serve.

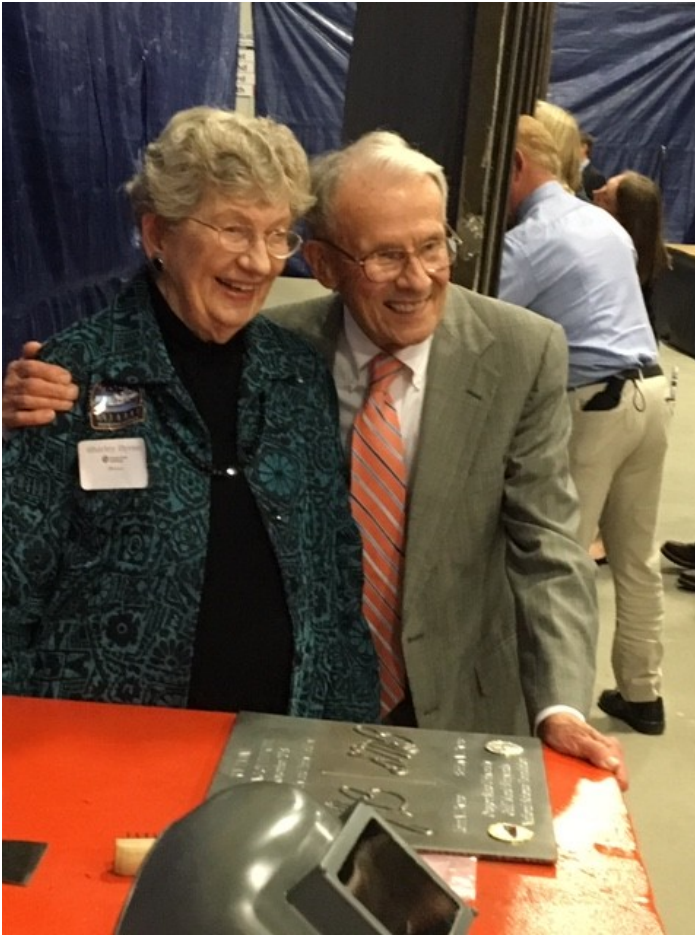
As UNOLS Executive Secretary, I wish the next UNOLS Office all the best.

Jon Alberts, UNOLS Executive Secretary, 1 May 2009 – 30 April 2019

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## **Fleet Highlights**

### **R/V *Taani* Construction Begins**



*Former OSU president John Byrne and his wife Shirley are the ship ceremonial sponsors and their initials were inscribed on the ships' keel. Photo by Tom Glennon, URI.*

Construction is officially underway for our nation's next Regional Class Research Vessel! The keel-laying ceremony for R/V *Taani* was held on November 7th, 2018 at the Gulf Island Fabrications Shipyard, in Houma Louisiana. R/V *Taani* is one of two Regional Class Research Vessels that the National Science Foundation is funding. The state of the art ship design will have a range of more than 5,000 nautical miles, with berths for 16 scientists and 13 crew members and will support future research on physical, chemical, biological and geologic processes in coastal waters. Follow the ship building process on the [OSU RCRV Blog](#).

## **Submersible *Alvin* Completes 5000th Dive!**





Photo c/o: Drew Bewley, WHOI.

Fifty-four years after being commissioned, *Alvin*, operated by WHOI, has just completed its 5000th dive in the Gulf of California! *Alvin*, which is the United States' only deep-diving submersible that is able to bring humans to the ocean floor, has reached many milestones over the years, including: exploring the RMS *Titanic*, looking at communities of deep-sea organisms, and aiding in the discovery of hydrothermal vents.

As *Alvin's* design continues to evolve, including the current update which will increase the sub's range in depth from 4,500m to 6,500m, scientists will have access to more of the ocean floor than ever before. To learn more about what *Alvin* has done through the years, and what plans are in store for the future, [click here](#).

## URI-Led Consortium to Operate New RCRV



Photo c/o: URI/GSO.

The University of Rhode Island's Graduate School of Oceanography (URI/GSO) has been selected by the National Science Foundation (NSF) to operate a new oceanographic research vessel set to be delivered in 2021.

The ship will be operated by the East Coast Oceanographic Consortium, which is led by URI and includes Woods Hole Oceanographic Institution, the University of New Hampshire and 13 other associate members. With access to this new state-of-the-art research vessel, members will have the opportunity to participate in a wide range of scientific studies and operations in the coastal and open ocean. As a continuation of URI's ocean-going research, this new vessel will support numerous studies involving the tracking of ocean currents, seafloor surveys, conservation of marine mammals, and food-web dynamics. Additionally, the ship will provide numerous educational and outreach opportunities for high school students, teachers, graduate students, as well as the general public to gain a better understanding on the importance of oceanographic exploration. The 199-foot vessel will replace the 185-foot *R/V Endeavor* that has operated at the Graduate School of Oceanography for more than 40 years and has conducted more than 600 research expeditions from the Arctic all the way to the South Pacific. To learn more about the new Regional Class Research Vessel, please click [here](#).

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