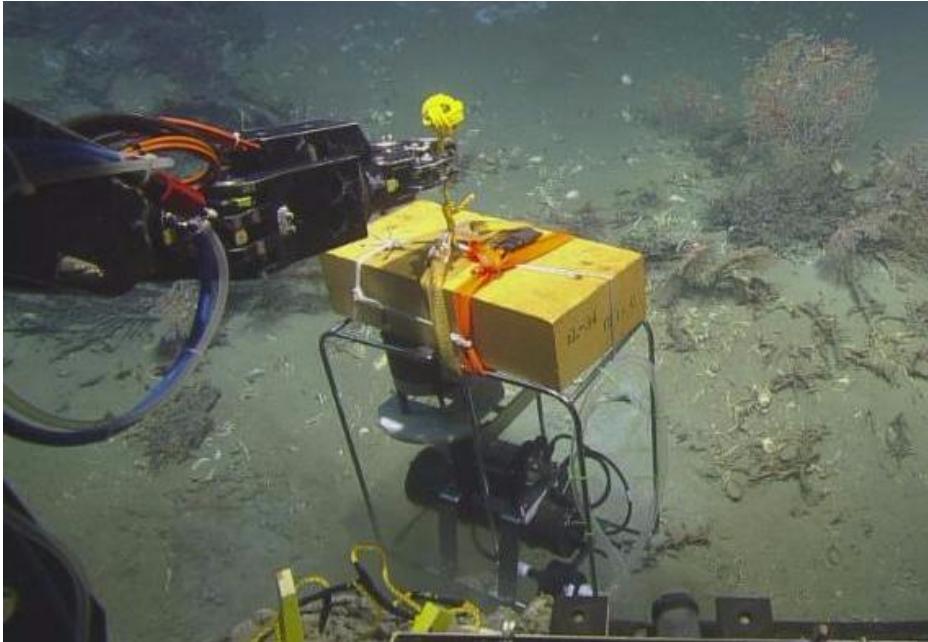


February 2016 Newsletter | Ocean Sciences & OI'16, Two-Year MMP Data, WTS-LV on R/V Falkor

profilers samplers flotation about us news support library



WTS-LV Deployed Using the ROV Hercules  
(Photo:Ocean Exploration Trust and ECOGIG Consortium)

February 2016

## McLane Solutions at AGU Ocean Sciences and Oceanology International '16

Come for some in-person brainstorming solutions to your science needs. These upcoming international events offer a chance to discuss your project requirements:

- **Ocean Sciences February 21-26 New Orleans, LA USA**  
Booth 509 - At the Ernest N. Morial Convention Center, McLane GM Jon Mogul and Engineering Mgr. Tim Shanahan will be on-hand to help you plan your next proposal, and answer questions about your existing projects.
- **Oceanology International March 15-17 London, UK**  
Stand P120 - At the Excel Centre, McLane Engineering Mgr. Tim Shanahan and UK Sales Representative Kelso Riddell look forward to collaborating with you on your science needs.

McLane  
2016 Events



OceanSciences  
New Orleans, LA  
February 21-26



Oceanology  
International  
London, UK  
March 15-17



Oceans '16 Shanghai  
Shanghai, China  
April 10-13



ONR/MTS Buoy  
Workshop  
Woods Hole, MA  
April 18-21



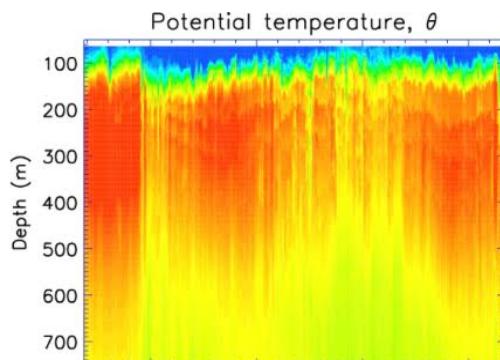
Oceans '16  
Monterey, CA  
September 19-22

At the McLane Booths you can:

- Observe our operating Imaging FlowCytobot's ([IFCB](#)) live-streaming images from a local water sample.
- Study the newest WTS-LV pump, the WTS-LVDF with vertical intake filter holders designed for GEOTRACES studies.
- Learn about our full line of [profilers](#), [samplers](#) and [mooring products](#).

If you are not traveling to these events, discuss your questions with us via [product training](#) at our offices or a meeting in the field with one of our global Sales Agents. [Contact us](#) for more details.

## MMPs Successfully Collect Two-Year Data



The images above show an MMP record of oceanic potential temperature from a mooring deployed on the Laptev Sea slope (depth 1700m). Note an abrupt change of temperature in the beginning of the two-year long record and strong seasonal signal which was enhanced in this part of the Arctic Ocean in recent years due to decay of sea-ice. (Photo & image courtesy: R. Rember, I. Gosczko)

Four [MMPs](#) from the University of Alaska Fairbanks' (UAF) International Arctic Research Center (IARC) ran successful two-year deployments in the Arctic Ocean as part of a Nansen and Amundson Basins Observational System (NABOS-II) expedition. The MMP mooring data will help to compile a cohesive picture of the climatic changes in the Eurasian and Makarov basins of the Arctic Ocean.

The MMPs were recovered recently on the 10th NABOS-II cruise aboard the R/V Akademik Tryoshnikov. Researchers from IARC and the Institute of Marine Science at UAF worked on the expedition with 40 international colleagues from Russia, Germany, the United Kingdom, Korea, Poland and the United States.

Mooring observations from the mission are documented in the study [Structure and variability of the boundary current in the Eurasian Basin of the Arctic Ocean, published in Deep-Sea Research I](#). New observations provided a variety of insights into various processes and mechanisms driving changes in the Arctic Ocean (see image above). The expedition was supported by grants

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## Science Highlights

The [McLane Library](#) has several new papers and media posts.

### [November 2014](#)

[PPS](#) used in Analysis of Vibrio communities.

### [July 2015](#)

[MMP](#) and [ITP](#) in the Eurasian Basin of the Arctic Ocean.

### [January 2016](#)

MBL Lab on HABS field sampling with [PPS](#).

## Customer Support

### Product User Groups

An [IFCB](#) user group was recently launched and we are planning to test more product user groups this year.

The IFCB moderated forum is 'by users for users' which we hope will be a valuable tool for users to ask questions, share information, and give their own tips on the IFCB.

### Product Training

[Training](#) at McLane is included with your new instrument. [Let us](#)

from the National Science Foundation, National Oceanic and Atmospheric Administration and the Polar Research Programme of the Norwegian Research Council.

## WTS-LV Pumps on R/V Falkor Cruise



Photo: M. Luma

[\*\*WTS-LV\*\*](#) samplers are among instruments used on a science expedition that traveled on the R/V Falkor to 16 stations from Honolulu, Hawaii to Papeete, Tahiti. The 28 day mission aims to describe the biogeochemical processes that occur within this particular area of the ocean's Oxygen Deficient Zones (ODZs).

The data collected will contribute to our greater understanding of ODZs, gather a database of baseline measurements to which future

measurements can be compared, and establish a new methodology that could be used in future research on these expanding ODZs.

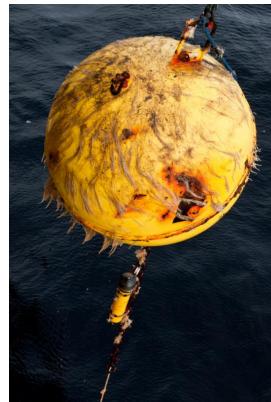
The WTS-LV samples were collected by both [\*\*Upright\*\*](#) and [\*\*Standard\*\*](#) WTS-LV pumps in a new method known as targeted metaproteomics. Samples came from different depths across the various stations. The data are expected to provide a better understanding of how the microorganisms are interacting and reacting with the ocean's chemistry.

[\*\*know\*\*](#) if we can schedule a [\*\*visit\*\*](#) for you this Spring or Summer.

## Flotation for your Field Season

Now is the time to prepare for your next deployment season.

[\*\*Ordering\*\*](#) your [\*\*mooring products\*\*](#) now will ensure they are ready for your next voyage!



McLane Steel Buoy



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