McLANE RESEARCH LABORATORIES, INC.

HARNESS THE POWER OF TIME

PROFILERS SAMPLERS FLOTATION NEWS SUPPORT

June 2018

McLane is committed to getting your 2018 deployment off and running:

- Contact us for all your pre- and post-deployment needs.
- Meet us at ASLO's Summer Meeting in Victoria, BC (**June 10-15**) and IAGLR's 61st Conference in Toronto (**June 18-22**) and tell us about your proposals and projects.
- Pick up your USB drive with the new McLaneTerm, our custom terminal emulation program for both Windows and Mac systems. McLaneTerm replaces MotoCross and Crosscut and can also be downloaded from our website.
- Bring your water sample to **Booth 11** at ASLO. We will use our IFCB to acquire high-resolution plankton images.
- Visit us if your travel brings you to Woods Hole in 2018, we are located just 10 minutes up the road. See our IFCB in action while you tour our facility. Contact us if you would like to bring your own water sample.

Contact us>

5 Tips to Maximize your Deployment Success

A well-prepared pre-deployment plan is another tool to maximize your instrument's operation and deployment results. Consider these tips:

- Check your tool kit. The tool kit is instrument-specific and includes many spare items. These items often get used in the field and should be replenished. Tools for the field should include a user manual and copy of McLaneTerm terminal emulation.
- Plan your battery supply. Use fresh batteries for every deployment. A new instrument includes the batteries (or battery pack) for the first deployment. If your instrument has a drop-in battery holder, stock up on extra alkaline batteries. Order battery packs from McLane well in advance as the lead time may be several weeks.
- Consider purchasing spares for your cruise such as a communication cable, sediment trap baffle, or extra sample bottles or bags. Having spares on-hand allows you to respond to unexpected events in the field and run smooth mooring turn-arounds.
- Schedule a pre-deployment service. We provide an instrument check-out, ballasting assistance, and other services to help make your instrument operate smoothly. However, these services must be scheduled in advance.
- Check your team's expertise with deploying the instrument. Training here at McLane is included with a new instrument. If schedules permit, we may also be able to provide refresher training for new team members. Contact us for details.

This June Learn More for your Project at ASLO and IAGLR

ASLO 2018 Summer Meeting, Victoria, BC, Canada
June 10-15 Booth 11 with McLane Engineering Manager Tim Shanahan & Director of Special Projects Ivory Engstrom.

- Bring us your water sample and see live demonstrations as our IFCB smart underwater microscope acquires high resolution plankton images.
- Talk with fellow McLane instrument users as well as researchers deploying instruments you are considering. Our team will be happy to make introductions.
- Learn about samplers and profilers in long-term global projects such profilers in the Beaufort Gyre Exploration Program and Ocean Observatories Initiative (OOI), WTS-LV samplers in GEOTRACES, and the IFCB in the Long Term Ecological Research site (LTER) off the Northeast coast of the US.

IAGLR 2018 Toronto, Canada
June 18-22 with McLane General Manager Jon Mogul.

- Hear about the first ESP deployed in the Great Lakes used to provide rapid, advanced warning to municipal drinking water managers and to safeguard the drinking water supplies from toxic microcystins.
- Discuss the IFCB pilot project at a New England aquafarm.
- Review details of a RAS deployment in Lake Huron used as part of aquatic studies on freshwater ecosystems.
- Learn about applications for your project and options to tailor our instruments to your science, including fixative options on the PPS and RAS, and shallow deployment options on Sediment Traps.

See our calendar for a complete list of McLane events.

RAS and PPS Perform Vent Sampling at OOI Cable Array

As part of National Science Foundation's (NSF) Ocean Observatories Initiative (OOI) Regional Cable Array, customized Remote Access Samplers (RAS) and Phytoplankton Samplers (PPS) are installed at the largest volcano off the Washington-Oregon coast (Axial Seamount) to sample hydrothermal vent fluids. For this long term observatory, the RAS and PPS were modified by Dr. David Butterfield (Univ. of Washington) and engineers at NOAA-PMEL and UW Applied Physics Lab for specific project objectives.

The RAS collects time-series hydrothermal vent water samples with real-time temperature measurement and in-situ filtration.The PPS is filtering and preserving microbial DNA from the vent. Two-way communication via the OOI fiber optic cable to shore allows investigators to trigger sampling in response to volcanic and tectonic events. Read the full article for more details.