



**Sediment Traps ❖ Moored Profilers ❖ Remote Access Samplers ❖ Water Transfer Systems ❖ Flotation**

## What's New at McLane

It's hard to believe that September is here! We hope you enjoy our Fall Newsletter which highlights new applications, enhancements, and diverse projects (like the recent projects below) involving McLane instruments. We look forward to seeing you at conference events this Fall!

### REMOTE ACCESS SAMPLER DELIVERED TO INDIA

McLane recently delivered a RAS-500 to the National Institute of Oceanography in Goa, India. The RAS-500 will be used in biogeochemical research in the Indian Ocean.

### SEA EDUCATION ASSOCIATION WTS-LV

Students aboard the SSV Corwith Cramer (C-193) deployed a McLane WTS-LV pump off the coast of Maine during a summer cruise. The advanced placement high school students achieved their goal of gently pumping water through a mesh filter

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WTS-LV Over the Rail of the SSV Corwith Cramer

### Meet McLane at Techno-Ocean '04 in Japan

*Our representative 3S Ocean Network, Ltd. will participate in Techno-Ocean '04 in Kobe, Japan from November 9-12. The biannual marine science and technology conference combines Oceans and Techno-Ocean conferences in 2004.*

## Kamikaze Project

McLane instrument housings are part of a new submersible - the AUV 'Kamikaze'. The modular, sensor-rich AUV, designed and built by teams at the Florida Institute of Technology, NOAA Hawaii Undersea Research Center and the University of Hawaii, will venture to Vailulu'u Crater, a seamount located 28 miles East of Ta'u island, the Easternmost island of the Somoan chain.

*continued on page 3*

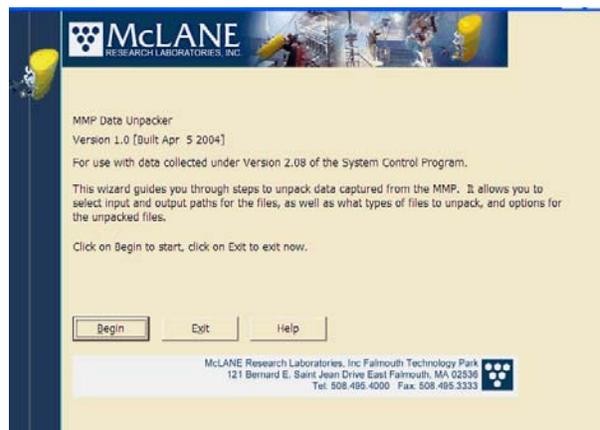
## Newly Released

Our product enhancements continued this Spring and Summer with more new instrument features.

### MMP Unpacker

In April we released a Windows application that automatically unpacks the binary MMP deployment files from the flash card using six sequential steps. The Unpacker guides users screen by screen through a Wizard-like application, or advanced users can directly edit initialization file settings to bypass the step-by-step screens and control the unpacking process as a single step application.

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MMP Unpacker Splash Screen

### ... SEA WST-LV Project (continued from p. 1)

and identifying phytoplankton under the microscope, according to Chief Scientist Dr. Jan Witting.



Student Prepares the WTS-LV for Deployment

The Sea Education Association (SEA) in Woods Hole, MA provides undergraduates with an opportunity to participate in an academic study program called the SEA Semester. ❖

#### MMP Moorings Recovered by WHOI

A science party from the Beaufort Gyre Exploration Project recently recovered several MMP moorings after a successful year-long deployment. See [www.whoi.edu/beaufortgyre](http://www.whoi.edu/beaufortgyre) for photos and cruise information. ❖

#### McLane Around the Globe

McLane is a worldwide presence thanks to our team of international representatives. Some of these global representatives include:

- ◆ **India:** Woods Hole Engineers  
+91 (22) 2436 6582  
[www.business.vsnl.com/woodshole](http://www.business.vsnl.com/woodshole)
- ◆ **Germany:** J. Bornhoft Industrieeräte GmbH  
+49 431 68 16 16  
[www.bornhoeft.de](http://www.bornhoeft.de)
- ◆ **Japan:** 3S Ocean Network Ltd.  
+81 3 3646 6692  
[www.3s-ocean.co.jp](http://www.3s-ocean.co.jp)

## McLane Photo Gallery

Thanks to our customers for these images of McLane instruments in action! If you have photos of our instruments in the field, email them to us at [mclane@mclanelabs.com](mailto:mclane@mclanelabs.com)! ❖



MMP in the Driving Snow 78N/125E  
Photo Courtesy of University of Alaska



MMP at 3,000m in Monterey Canyon  
Photo Courtesy of MBARI



Sediment Trap Ready for Deployment in South China Sea

**... Newly Released (continued from p. 1)**

Unpacker options include uniquely tagging each data file with a prefix to identify files from specific deployments. Another setting makes output files human readable by adding text headers to the converted files.

The Unpacker supports versions 3.01 and later of the MMP firmware and will maintain backward compatibility with future MMP firmware releases.

**RAS-500 External Temperature Sensor**

The RAS-500 now has an external Thermistor temperature sensor option. The new sensor extends the thermistor from its standard location on the electronics card to a specially-manufactured aluminum block screwed into the top end cap.

External temperature readings are recorded in RAM and in EEPROM. ❖



RAS-500 Ready for Testing

**NEW RAS-500 USER MANUAL** 

A new RAS-500 User Manual was published in June. In addition to updates for firmware version 6.0, the manual has been reorganized with many instructional photographs. The RAS-500 User Manual is available on our website. ❖

**... Kamikaze (continued from p. 1)**



McLane Instrument Housing on the AUV Kamikaze

Although the project team plans to recover the AUV after its deployment, the instrument has been named 'Kamikaze' in honor of its hazardous mission - surveying volcanic activity 1/2 mile under water at temperatures near 900°F.

The instrument housings supplied by McLane will protect the navigation electronics, with control wiring as accessible and modular as the hull mechanics.



Kamikaze's First Wet Test

The Kamikaze Team recently performed the first wet test on the AUV. The team reported that complete control of servos and throttle was maintained, the AUV experienced no leaks, shorts or heat problems. A successful first run! The Kamikaze deployment is planned for the Summer of 2005. ❖

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*Let us know about your custom projects! McLane supplies a variety of custom instrument housings. Contact us at [mclane@mclanelabs.com](mailto:mclane@mclanelabs.com) for more information.*

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ADDRESS CORRECTION REQUESTED

## Training Classes at 4<sup>th</sup> Ocean Technology Workshop

In October, McLane Research Laboratories, Inc. is participating in the 4<sup>th</sup> Ocean Technology Workshop sponsored by MOTN. In addition to two full days of sessions demonstrating equipment and discussing applications on new and existing products, there will be at-sea demonstrations. McLane will have a booth at the workshop and our engineers will be on hand for training sessions that include MMP deployment programming and data processing.



As in past years, several fully-equipped New England Research Vessels will be docked at the marina located adjacent to the classrooms and exhibit hall, and will be conducting in-water equipment demonstrations on Oct. 20<sup>th</sup> and 21<sup>st</sup>. Make plans today to see us there! For conference information check [www.motn.org](http://www.motn.org). ❖

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**4<sup>th</sup> Ocean Technology Workshop**  
**sponsored by MOTN**

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**Hyatt Regency Hotel, Newport RI**

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**October 19-21 2004!**  
**[www.motn.org](http://www.motn.org)**