



Sediment Traps ✦ Moored Profilers ✦ Remote Access Samplers ✦ Water Transfer Systems ✦ Flotation

What's New at McLane

2003 was a busy year at McLane! From celebrating our 20th Anniversary and exhibiting at conferences, to helping customers achieve new scientific goals, we've got some great highlights to share with you as we start off 2004 with this issue of our Newsletter.



McLane's Booth at Oceans 2003 in San Diego

Oceanographic Conferences 2003

We met many McLane customers at Oceans 2003 in San Diego (a photo of our booth in action is above).

Don ("Woody") Pfitsch, an engineer here at McLane, presented a paper detailing the performance of the WTS-LV pump in the field. With the assistance of the

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Stop by for a tour!

*If you plan to be in the Falmouth area this year, come **tour** our custom-designed development and testing facility. Our visitors even receive a McLane 20th Anniversary coffee mug (while supplies last)!*

Celebrating 20 Years!

McLane Research Laboratories, Inc. began building sediment traps in a garage in 1983. Two decades later, we're still building those traps along with a diverse line of instruments and flotation that are deployed in the world's oceans and many fresh

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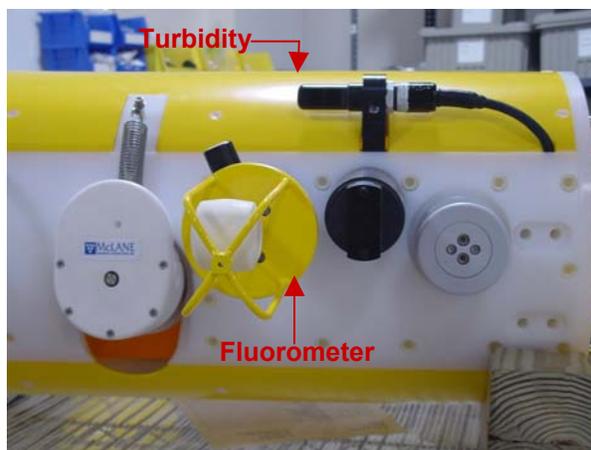
New Instrument Features

As shown on our Newsletter cover, the Sea-bird CTD integration was just one of the new instrument features we developed this year for the specific research needs of our customers. Read on for details of more new instrument features.

MMP and Seapoint Sensors

Seapoint Sensors Inc. (www.seapoint.com) optical Fluorometer and Turbidity sensors are now

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MMP with Seapoint Fluorometer & Turbidity Sensors

... Instrument Features (continued from p. 1)

supported by version 3.03 of the MMP firmware. The first MMP-Seapoint Sensor deployment is planned for Spring 2004 in Monterey Canyon, CA.

...MORE INSTRUMENT FEATURES

SEDIMENT TRAP LITHIUM BATTERY

A **lithium battery** option was created for a Sediment Trap deployment in Antarctica. The deployment required an extended sleep cycle to allow the ice hole to refreeze.

WTS-LV PUMP STAINLESS STEEL WIRE CLAMP

A new **stainless steel wire clamp** replaced the aluminum clamp on the WTS-LV pump. This modification can be retrofit to existing WTS-LV frames.

GLASS FLOTATION INTEGRATION

The G8800 Glass Flotation Module was integrated into an array of **Ocean-bottom Seismology Instruments**. The integration was designed and constructed by the Scripps Institute of Oceanography.



G8800 Glass Flotation Module

Integrated by Scripps Institute of Oceanography

REVISED MMP USER MANUAL



A revised version of the MMP User Manual was published in January. In addition to updates for version 3.xx of the firmware, the manual has been reorganized and includes many new instructional photographs. The MMP User Manual is available on our website. ❖

... 20 Years (continued from p. 1)

water locations. Our growth from that initial instrument offering has continued at a steady pace!

Today, McLane instruments are regularly used by organizations including USGS, NOAA/PMEL, WHOI, JAMSTEC, SOC, and many other research and oceanographic institutions worldwide.

During the 1980's, as McLane's reputation for engineering design services grew, so did our product line. In 1997, to meet the increasing demand for our instruments, McLane opened a custom-built research, design and manufacturing facility in Falmouth, MA.

One of McLane's more recent and widely successful instruments has been the Moored Profiler (MMP). The first production model MMP was deployed on May 22, 2001 by JAMSTEC. This inaugural Profiler traveled 1 million meters and completed 1008 profiles over 4 months before being recovered. Since that first successful deployment, MMP's have been deployed in the Atlantic, Caribbean, North Pacific, and Arctic oceans.

McLane Research Labs in Falmouth continues to be the site from which we design, build, test, and ship our instruments. Every instrument that we deliver passes our quality assurance process, which is supported by a 15 meter deep test well, and a pressure tank with full ocean depth testing capabilities.

We celebrate our 20th year in business by continuing to value our ongoing association with many researchers and diverse scientific projects. As our growth continues, our focus remains where it began, on our commitment to support the research needs of the oceanographic community.

As you'll see in this issue of our Newsletter, our ongoing customer partnerships continue, resulting in even more new instrument features. ❖

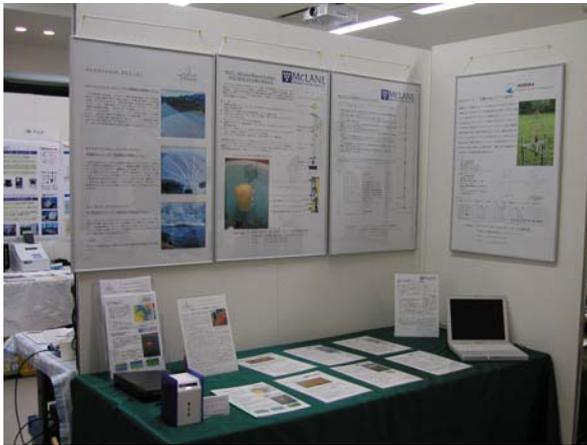
... New at McLane (continued from p.1)

JAMSTEC crew on the R/V Mirai, Woody collected and analyzed pumping rates, volume pumped, and battery endurance data with a variety of filters at multiple depths. A copy of the paper is available on the McLane website.

Our Oceans 2003 booth contained a fully-operational, PDA-controlled WTS-LV, a full-size MMP, a scale-model steel flotation buoy and the popular G8800 glass flotation module.

Also this Fall, McLane was represented at the Oceanographic Society of Japan Conference in Nagasaki, by our rep 3S Ocean Network, Ltd. (www.3s-ocean.co.jp).

Look for us at more conferences in 2004! ❖



McLane Booth at Oceanographic Society of Japan Conference

Photo Courtesy of Kaz Suguro, 3S Ocean Network, Ltd.

McLane in High Latitudes

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 for our photo gallery at mclane@mclanelabs.com! ❖



Sediment Trap Deployment in Antarctica

Photo Courtesy of John Priscu, Montana State University



IAEA WTS-LV Deployment

Photo Courtesy of Sandor Muslow, IAEA



ADCP Attached to McLane Steel Flotation

Photo Courtesy of Humphrey Melling, IOS Victoria

McLane is always interested in meeting engineers who would like to join our team! We currently have an opening for a Mechanical/Ocean Engineer. Visit www.mclanelabs.com for more information about our career opportunities.



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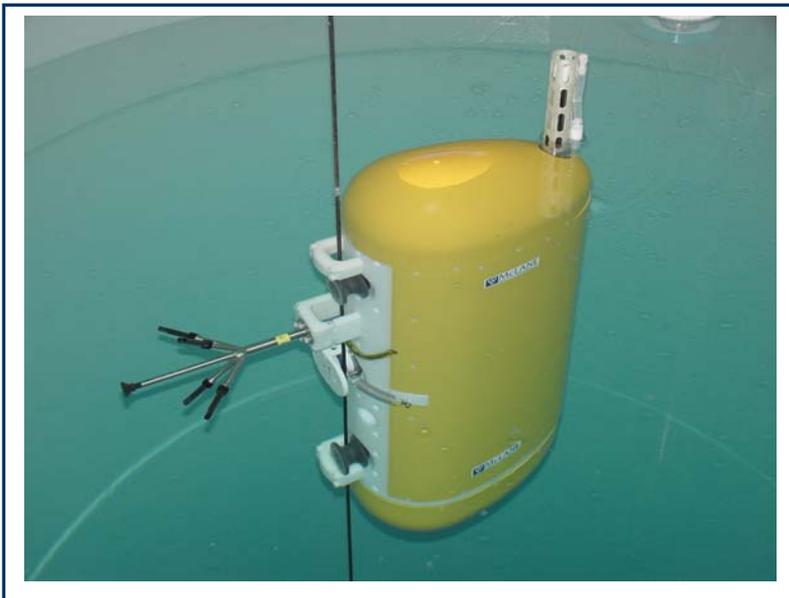
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ADDRESS CORRECTION REQUESTED

MMP with Sea-Bird CTD

NEW!

McLane Research Laboratories, Inc. recently delivered an MMP with a 41CP CTD manufactured by Sea-Bird Electronics, Inc. (www.seabird.com). This MMP was deployed in the Fall of 2003 in Puget Sound, as part of a joint project between WHOI and the Applied Physics Laboratory at the University



of Washington. Prospective MMP customers can now choose between the Falmouth Scientific CTD (www.falmouth.com) and the SBE 41CP CTD. ❖

For more McLane news and information about this year's new instrument features, see inside!

Order Now for Summer 2004!

Planning a summer cruise? Now is the perfect time to order Glass and Steel Flotation for your 2004 field season.