



HYPACK 2009

By Christine Lonczak

We recently concluded our 2009 HYPACK® Conference in San Diego, CA, which was held from January 11th-14th at The San Diego Convention Center. Attendees stayed at the San Diego Marriott Hotel and Marina. We could not have asked for nicer weather or for a more beautiful location right on the San Diego Bay and across from the Gaslamp District.

FIGURE 1. *The San Diego Marriott Hotel and Marina*



This year, our sixteenth, the event attendance reached 325 attendees and 32 exhibitors including software/hardware manufacturers, equipment resellers and service providers. The conference continues to be a low-cost opportunity for HYPACK users to train their employees and for HYPACK to receive important feedback from our customers.



FIGURE 2. *Laurent Mainguené (Equipment Engineer SHOM-France), Mircea Neacsu (HYPACK Inc), Lourdes Evans (HYPACK Inc), and Peter Ford (CLE Engineering)*
**Picture provided by Steve Richardson (World Dredging Mining and Construction)*

The conference commenced on Sunday with its annual tradition of the Humber Classic Golf Tournament. The 32 participants were fortunate to play in beautiful weather on the 18-hole Coronado Golf Course.

FIGURE 3. *Caption 3: Mike Kalmbach (HYPACK Inc.), Laurie Smith (Managing Director, Del Norte Technology, UK)*

On Monday morning, Pat Sanders (president of HYPACK), welcomed everybody to the sixteenth annual HYPACK User's Conference and presented some of the new features in our 2009 release. These new features included export to Google Earth™, Improved OpenGL graphics, new sonar interfaces, new SURVEY window, and new ADCP logging and processing capabilities.



To accommodate the needs of both new and long-time users, HYPACK began offering separate general training and expert sessions. This allows new users to learn the

fundamentals of HYPACK® software, while providing long-time users a forum to discuss more intricate topics. The general training sessions held by Harold Orlinsky, John Lindberg, Mike Kalmbach and Joe Burnett, included discussions on survey design, hardware configuration, corrections to soundings, single-beam editing & sounding selection, Export to HYPLOT & TIN MODEL, volume computations, multibeam configuration and survey, multibeam processing, CUBE and Side Scan processing and HYPACK Utilities.

On the final day of the training the official HYPACK Certification Test was administered by Pat Sanders. This is a difficult test that is given upon the completion of a 3-day HYPACK Training Seminar. Users must demonstrate advanced knowledge in Survey Design, Hardware Configuration, Survey, Single Beam Processing, Sounding Selection, Multibeam Calibration and Processing, Volume Computations and General Hydrography in order to pass. Passing scores will be listed on the HYPACK website at www.hypack.com.

In addition to the HYPACK employees who took part in the expert sessions, HYPACK was honored to have two guest speakers. Robert Hare, from the Canadian Hydrographic Service, joined Pat Sanders in a discussion of Total Propagated Uncertainty (formerly known as TPE). We also welcomed back Dr. Luciano Fonseca, a professor from UNH-CCOM. Dr. Fonseca is the author of 'GEOCODER' a powerful routine that has the ability to generate advanced mosaics from side scan, average backscatter and snippet data. In addition, GEOCODER has basic tools for bottom classification that are rapidly expanding. He, along with Pat Sanders, held an expert session on the capabilities of GEOCODER.

Other expert sessions held by Mike Kalmbach, Joe Burnett, Mircea Neascu and Jerry Knisley discussed such topics as Sub-bottom profiling, electronic chart editing and field verification; calibrating & performance testing of multibeam systems and Geoswath Integration in MBMax; our final products programs including Volumes, Export to CAD, and surface modeling; and DREDGEPACK for cutter-suction, hoppers and excavators.

This year, we continued with our one-on-one sessions that were introduced and were so successful at the 2008 conference. These sessions allow attendees to sign up for a 30 minute session with a HYPACK developer or support engineer. This gives attendees the opportunity to address individual concerns and issues in a private, one-on-one setting.

FIGURE 4. Caption 4: Pat Sanders speaking with an Attendee



For more information about our 2010 conference, please visit HYPACK's website: www.hypack.com or contact Lourdes Evans or Christine Lonczak at HYPACK, Inc. at sales@hypack.com or (860) 635- 1500 (voice) or (860) 635-1522 (fax).