

ADCPs in Action 2011 Schedule

All information subject to change

Monday, October 3, 2011

Time

8:00 am - 9:15 am

Registration - Check-in / Continental Breakfast / Co-Sponsor Exhibits

9:15 am - 10:00 am

Welcome / Introductions

10:00 am - 10:30 am

Morning Break / Informal Discussions / Poster Papers / Co-Sponsor Exhibits

Marine Measurements (MM) Track 1 - Boardroom

Marine Measurements (MM) Track 2 - Toucan

Water Resources (WR) Track 3 – Macaw

Navigation (Nav) Track 4 - Cockatoo

10:30 am - 11:00 am

" Biological-based ADCP backscatter layers in Northern Arabian Sea"

Presenter:
Zhankun Wang;
Department of Oceanography Texas A&M (USA)

"Quantification of uncertainty in high-frequency measurements at tidal turbine sites"

Presenter:
Maila Sepri; Voith Hydro Ocean Current Technologies GmbH & Co. KG (Germany)

"Measurements of Large-scale Fluctuations in Flow, Lower Mississippi River, May 2011"

Presenter:
Kevin Oberg; U. S. Geological Survey (USA)

"REMUS 6000 AUV Operations along the Mid Atlantic Ridge during the Search for Air France Flight 447"

Presenter:
Andy Sherrell, Sherrell Offshore Services

11:00 am - 11:30 am

"Profilers Used on Atlantic Continental Shelf to Assess Migratory Species Corridors"

Presenter:
Roger Rulifson; Institute for Coastal Science and Policy (USA)

"Combined ADCP and Radar Measurements at EMEC's Tidal Energy Test Site"

Presenter:
John Lawrence - European Marine Energy Centre (EMEC) – (UK)

"Extrap – Evaluating Discharge Profile Extrapolations using Normalized Data"

Presenter:
Dave Mueller; U. S. Geological Survey (USA)

"Performing Simultaneous Localisation and Mapping with DVL bathymetry: An Approach to Driftless Navigation for Unmanned Underwater Vehicles"

Presenter:
Stephen Barkby; Australian Center for Field Robotics,

Monday, October 3, 2011

Monday, October 3, 2011					University of Sydney (Australia)
		Marine Measurements (MM) Track 1 - Boardroom	Marine Measurements (MM) Track 2 - Toucan	Water Resources (WR) Track 3 – Macaw	Navigation (Nav) Track 4 - Cockatoo
	11:30 am - 12:00 pm	<p>Co-sponsor Presentation: “Real-Time Desalination Plant Outfall Monitoring using Acoustic Telemetry Modems”</p> <p>Presenter: Adam Lipper; Teledyne Benthos (USA)</p>	<p>“ADCP’s for Marine Energy Applications in Strangford Lough, UK”</p> <p>Presenter: Cuan Boake; Queen's University Belfast (UK)</p>	<p>“Compilation of Streamflow Comparison Measurements made with the Teledyne RDI RiverRay and other Acoustic and Mechanical Instruments”</p> <p>Presenter: Mike Rehmel; U. S. Geological Survey (USA)</p>	<p>“DVL Navigation with the Sentry and Iver2 AUVs”</p> <p>Presenter: James Kinsey; WHOI (USA)</p>
	12:00 pm - 1:30 pm	Lunch on the Beach followed by Co-Sponsor Exhibits / Poster Papers			
	1:30 pm - 3:00 pm	MM Training: Workhorse Unplugged		<p>WR Training: RiverRay: Auto Adaptive Explained (30 min)</p> <p>RiverRay: Compass Calibration Tutorial /Video (30 min)</p> <p>RiverRay: GPS Integration Concepts and Demonstration (30 min)</p>	<p>Nav Training: DVL Sonar – Principles and Application: Basic Training</p> <ul style="list-style-type: none"> Fundamentals and theory (45 min) Practical hands-on Integration and training (45 min)
	3:00 pm - 3:30 pm	Afternoon Break / Informal Discussions / Poster Papers / Co-Sponsor Exhibits			
	3:30 pm - 4:15 pm	MM Training: Unmasking the Next-Generation Sentinel V ADCP		WR Training: ADCP Troubleshooting Basics (45 min)	Nav Training: DVL Sonar – Principles and Application: Advanced Training
	4:15 pm - 5:00 pm			Co-Sponsor Demonstration:	<ul style="list-style-type: none"> Advanced sonar

				<p>“Demonstration of the remotely-controlled Q-Boat 1800”</p> <p>Ocean Science (USA)</p>	<p>theory (45 min)</p> <ul style="list-style-type: none"> Hands-on implementation and interpretation of theoretical concepts
	5:00 pm - 6:30 pm	<p>“Around the World” Cocktail Hour in Co-Sponsor Exhibit Area</p>			
	Time	<p>Tuesday, October 4, 2011</p>			
		<p>Marine Measurements (MM) Track 1 - Boardroom</p>	<p>Marine Measurements (MM) Track 2 – Toucan</p>	<p>Water Resources (WR) Track 3 – Macaw</p>	<p>Navigation (Nav) Track 4 - Cockatoo</p>
	8:00 am - 9:00 am	<p>Continental Breakfast / Co-Sponsor Exhibits</p>			
	9:00 am - 9:30 am	<p>"Application of ADCP and CTD Data to Demonstrate Compliance with Water Quality Standards and NPDES Permit Requirements for Ocean Discharges in Puerto Rico"</p> <p>Presenter: Robert Darby; CH2MHill (USA)</p>	<p>"Continuous Wave, Current and Sea Level ADCP Measurements at the SEM-REV Maritime Test Facility"</p> <p>Presenter: Hakim Mouslim; Ecole Centrale de Nantes (France)</p>	<p>“Proposal for Water Discharge Measurement with ADCP for Mountainous Areas”</p> <p>Presenter: Atsuhiko Yorozuya; International Centre for Water Hazard and Risk Man (Japan)</p>	<p>“ADCP Measurements with AUVs”</p> <p>Presenter: James Kinsey; WHOI (USA)</p>
	9:30 am - 10:00 am	<p>Co-sponsor Presentation: “Acoustic Communications: Past, Present and Future”</p> <p>Presenter: Richard Dentzman; Sonardyne (UK/USA)</p>		<p>“Velocity Mapping Toolbox (VMT): a processing and visualization suite for moving-vessel ADCP measurements”</p> <p>Presenter: Daniel Parsons, University of Leeds (UK)</p>	<p>“Operational Applications of Sensor Based Object Relative Positioning for Unmanned”</p> <p>Presenter: Jon Wood; SeeByte (USA)</p>
	10:00 am - 10:30 am	<p>Morning Break / Informal Discussions / Poster Papers / Co-Sponsor Exhibits</p>			
Tuesday, October 4, 2011					

Tuesday, October 4, 2011		Marine Measurements (MM) Track 1 - Boardroom	Marine Measurements (MM) Track 2 – Toucan	Water Resources (WR) Track 3 – Macaw	Navigation (Nav) Track 4 - Cockatoo
	10:30 am - 11:00 am	<p>"DVS Deploy on "RAMA" (The Research Moored Array African-Asian-Australia Monsoon Analysis and Prediction Program)"</p> <p>Presenter: Rick Cole; RDSEA International, Inc. (USA)</p>	<p>"Optimizing Offshore Platform Based ADCPs through Numerical Modeling of Instrument Position and Orientation"</p> <p>Presenter: Ron Regnier;- BMT Scientific Marine Services (USA)</p>	<p>"The effect of bed morphology, turbulence, and moving boat stability on mode 13 StreamPro flow measurements"</p> <p>Presenter: Andrew Willsman; NIWA (New Zealand)</p>	<p>Co-sponsor Presentation: "DVL & INS the Perfect Combination for 3D Pipeline Buckle Surveys"</p> <p>Presenter: James Titcomb IXBLUE (France/ USA)</p>
	11:00 am - 11:30 am	<p>Co-Sponsor Presentation: Contros Systems & Solutions GmbH</p> <p>Presenter: Prof. Mark Schmidt; IFM-Geomar / CONTROS (Germany)</p>	<p>"Interesting Currents at the Mouth of a Major River"</p> <p>Presenter: Jeff Cox; RPS - Evans Hamilton (USA)</p>	<p>"Taking the StreamPro to the Extremes in Statistical Data Analysis"</p> <p>Presenter: Lawrence Schinkel; Government of Alberta, Agriculture and Rural Development (Canada)</p>	<p>"Integrating and Deploying Self-Contained Explorer DVL on small Observation-Class and Inspection Class ROVs"</p> <p>Presenter: Jeff Snyder; Sea Vision Marine (USA)</p>
	11:30 am - 12:00 pm		<p>"Using Directional Wave Data to Calibrate Nearshore Wave Transformation Models for Shore Protection Project Planning and Design"</p> <p>Presenter: Bob Hamilton, Woods Hole Group (USA)</p>	<p>"Northern Territory diverse monitoring conditions"</p> <p>Presenter: Daniel Wagenaar; Natural Resources, Environment, the Arts and Sport (Australia)</p>	<p>"Mid-water column, bottom lock-less simultaneous current mapping and navigation with ADCPs onboard Autonomous Underwater Vehicles"</p> <p>Presenter: Lashika Medagoda; Australian Center for Field Robotics, University of Sydney (Australia)</p>
	12:00 pm - 1:30 pm	Lunch on the Beach followed by Co-Sponsor Exhibits / Poster Papers			

1:30 pm - 2:15 pm	MM Training: Back to the Future: ADCP Data Processing <i>(Includes an introduction to Teledyne RDI's new Velocity Software)</i>	MM Training: Waves Q&A Session	WR Training: ChannelMaster H-ADCP: Index Velocity & Internal Q Calculation Overview (45 min)	Co-sponsor Presentation: "An optimal small-factor ROV for ADCPs and other Instrumentation"
2:15 pm - 3:00 pm			WR Training: SxS Pro Software (45 min)	Followed by dockside demonstrations (tentative) Presenters: Scott Bentley, VideoRay; Jeff Snyder, Sea Vision; (USA)
3:00 pm - 3:30 pm	Afternoon Break / Informal Discussions / Poster Papers / Co-Sponsor Exhibits			
3:30 pm - 4:00 pm	General Training: Data Analysis Clinic: • Data QA/QC • Data Interpretation		WR Training: StreamPro Compass Calibration and GPS Set Up (45 min) ...followed by field demonstration	New Product Introduction: Teledyne RDI PAVS150 - Performance Analysis of a Mid-Range Phased Array Velocity Sensor
4:00 pm - 5:00 pm				
6:00 pm - 9:00 pm	Jimmy Buffet Style AiA Beach Party!			

Time

Wednesday , October 5, 2011

	Marine Measurements (MM) Track 1 - Boardroom	Marine Measurements (MM) Track 2 - Toucan	Water Resources (WR) Track 3 – Macaw	Navigation (Nav) Track 4 – Cockatoo
8:00 am - 9:00 am	Continental Breakfast / Co-Sponsor Exhibits			
9:00 am - 9:30 am	Co-sponsor Presentation: "The Wave Glider: a wave powered autonomous surface vehicle for operational	"CASCADE: a Matlab software to process, qualify and visualize SADCP data" Presenter:	"Suspended Load Calculations made from Calibrating ADCP Velocity and Backscatter Measurements"	"A Tale of Two Seasons in Antarctic: ENDURANCE Under-Ice Hovering AUV Project Summary and Navigational Results"

	<p>& predictive oceanography”</p> <p>Presenter: Neil Trenaman; Liquid Robotics (USA)</p>	<p>Pascale Lherminier; Laboratoire de Physique des Océans, Ifremer (France)</p>	<p>Presenter: Thad Pratt; Field Data Collection & Analysis Branch Coastal Hydraulics Lab (USA)</p>	<p>Presenter: Bart Hogan; Stone Aerospace (USA)</p>
	<p>Marine Measurements (MM) Track 1 - Boardroom</p>	<p>Marine Measurements (MM) Track 2 - Toucan</p>	<p>Water Resources (WR) Track 3 – Macaw</p>	<p>Navigation (Nav) Track 4 – Cockatoo</p>
<p>9:30 am - 10:00 am</p>	<p>"The Hydrodynamics of a Pearl Necklace"</p> <p>Presenter: David Williams; Australian Institute of Marine Science (Australia)</p>	<p>Co-sponsor Presentation: "Biofouling Control for Oceanographic Instrumentation and Advanced Platforms"</p> <p>Presenter: Hank Lobe; Severn Marine Technologies (USA)</p>	<p>"Laboratory and Field Validation of ADCP Techniques for Suspended Sediment Investigation"</p> <p>Presenter: Massimo Guerrero; University of Bologna (Italy)</p>	<p>"DVL aided INS for Hydrographic surveying on a Gavia AUV"</p> <p>Presenter: Helgi Thorgilsson; Teledyne Gavia (Iceland)</p>
<p>10:00 am - 10:30 am</p>	<p>Morning Break / Informal Discussions / Poster Papers / Co-Sponsor Exhibits</p>			
<p>10:30 am - 11:00 am</p>	<p>"Quantifying the Three-dimensional Flow Fields within Submarine Channel Bends: Flow Processes to Inform Sedimentological Products"</p> <p>Presenter: Daniel Parsons, University of Leeds (UK)</p>		<p>"The Possibilities and Limitations of Tidal Bore ADCP Measurements in Very Energetic and Turbid Environment"</p> <p>Presenter: Guillaume Detandt; Université Bordeaux (France)</p>	<p>"DVL Aided Navigation on a Focus 2 ROTV"</p> <p>Presenter: Andrew Ziegwied; MacArtney (USA)</p>

Wednesday, October 5, 2011

	Marine Measurements (MM) Track 1 - Boardroom	Marine Measurements (MM) Track 2 - Toucan	Water Resources (WR) Track 3 – Macaw	Navigation (Nav) Track 4 – Cockatoo
11:00 am - 11:30 am	<p>“Horizontal Currents for Safe Cruise Terminal Operations”</p> <p>Presenter: Jeff Cox; RPS Evans-Hamilton, Inc. (USA)</p>		<p>“Discussions of Accuracy Evaluation Methods for Flood Flow Observation by Towing ADCP”</p> <p>Presenter: Shoji Okada; Kochi National College of Technology (Japan)</p>	<p>“Creating high resolution, wide swath, geo-registered imagery in very deep water using PROSAS Surveyor PS60”</p> <p>Presenter: Andy Wilby, Raytheon Applied Signal Technology, Inc. (USA)</p>
11:30 am - 12:00 pm	<p>“NEPTUNE Canada: Cabled-Observatory Integration and Scientific Applications for RDI ADCPs”</p> <p>Presenter: Reyna Jenkins; NEPTUNE (Canada)</p>		<p>Co-sponsor Presentation: “Real-time Communications & On-Demand Data Delivery anytime, anywhere using SMS, EMAIL, WEB and Smart Phone”</p> <p>Presenter: Ashish Raval; Sutron (USA)</p>	<p>“Advanced Navigation, Communication and Control Platforms for Subsea Robotic Vehicles”</p> <p>Presenter: Mahesh Menon, Soil Machine Dynamics Ltd (UK)</p>
12:00 pm - 1:30 pm	Lunch on your own...			
1:30 pm - 2:00 pm	<p>MM Training: Real Data, Right Now! Real Time Data Solutions</p> <p>with guest presenters: Curran Fey, NOAA PMEL Reyna Jenkins, NEPTUNE</p>		<p>Teledyne Odom Hydrographic Track</p> <p>“Low cost multibeam systems for shallow water hydrographic surveys”</p> <p>Presenter: Michael Redmayne; Teledyne Odom (USA)</p>	<p>One-on-one meetings with the Navigation product line team</p>

2:00 pm - 2:30 pm			<p>“TSP (Towed Survey Platform) - reducing costs and increasing productivity for ADCP, DVL and Multibeam surveys”</p> <p>Presenter: Doug Lockhart; for Teledyne Odom (USA)</p>	
2:30 pm - 3:00 pm			<p>On water demonstrations –Teledyne Odom products</p>	
3:00 pm - 3:30 pm	Afternoon Break / Informal Discussions / Poster Papers / Co-Sponsor Exhibits			
3:30 pm - 5:00 pm	<p>MM Training: DVS (Doppler Volume Sampler) Unplugged</p>		<p>On water demonstrations – Water Resources and Teledyne Odom products</p>	<p>One-on-one meetings with the Navigation product line team</p>

Thursday, October 6, 2011

Time	
9:00 am - 12:00 pm	<p>Teledyne RDI Facility Tours – Poway <i>(Transportation available – please pre-register)</i></p>
8:00 am - 12:00 pm	<p>One-on-one customer meetings with sales/ management at Teledyne RDI Facility <i>(Meetings can also be scheduled for Friday, October 7. Please pre-register.)</i></p>