

Date and Time	Room 1	Room 2	Room 3
24 January Tuesday	24 January Tuesday	24 January Tuesday	24 January Tuesday
8:00 am – 9:30 am	Awards Breakfast International Lounge	Awards Breakfast International Lounge	Awards Breakfast International Lounge
24 January, 2006 Tuesday 10:00 am – 11:30 am	<u>Submersibles</u> Manned Submersible Activity 2005, Will Kohnen, MTS MUV Committee NOAA Office of Ocean Exploration use of Manned Submersibles in Past and Current Year, John McDonough, NOAA Office of Ocean Exploration US Navy Deep Submergence Unit Operational Overview 2005, Commanding Officer, US Navy Deep Submergence Unit	<u>ROVs</u> The Development of a Highly Effective yet Radically Simple Manipulator Control System, Nick Lawson, Perry Slingsby Systems Predicting Umbilical Cable Loads and Excursions for Heavy Work Class Remotely Operated Vehicles Dave Epps and Dave Dupont, Perry Slingsby Systems	<u>Diving</u> Prototype of a Stereoscopic Vision System to Improve the image quality in Turbid Waters during Underwater Inspection, Rogelio Morales, Central University of Venezuela USCG – LCDR Jim Elliot Legal Update 2005, Rick Lesser, Lesser and Assoc.
24 January, 2006 Tuesday 1:30 pm – 3:00 pm	<u>Submersibles</u> Replacement HOV for Alvin, Robert Brown, Woods Hole Hawaii Undersea Research Lab, Deep Sea Expeditions in Pacific Rim, John Smith, Hawaii Undersea Research Lab Deep Diving Activities with Johnson Sea Link and the Safety Considerations of rough surface conditions, Don Liberatore, Harbor Branch Oceanographic Inst.	<u>ROV</u> A Minimum Cost Design Approach of a Remotely Operated Vehicle (ROV) for Underwater Inspection, Tarek Elsayed, Arab Academy for Science and Technology An ROV for Ocean Exploration, Justin Manley, NOAA Office of Ocean Exploration Development of a Force Protection Remotely Operated Vehicle for Inspection of the Hulls of US Navy air craft carrier fleet, Jerry Bohlander and Dana Lynn, Naval Surface Warfare Center	<u>Diving</u> Importance of Standards for Diver Medic Technicians (DMT), Captain Sir Paul Guppy, MD(AM),DSc, EdD, DMT-P, MCCM, MIHM, National Medical Director Liaison and Training, DMT Training Group NOAA, Craig McLean Understanding Chemical Testing on Dry Suits, John Drewniak, Trelleborg Viking
24 January, 2006 Tuesday 3:30 pm – 5:00 pm	<u>Submersibles</u> Operation Overview of DSV “Shinkai 6500” in 2005 Season, Shinkai DSV Team, JAMSTEC Operational Overview of the NAUTILE Deep Submergence Vehicle at IFREMER since 2001, Jean Pierre Leveque, IFREMER, Deep Submergence Dept. Re-Discovering The World’s First Arctic Submarine: Nautilus of 1931, Stewart B. Nelson, PhD, Scientific Advisor, Project Nautilus 2005	<u>ROV</u> How to Use Streaming Sonar Imagery with and ROV to Detect, quickly navigate to, and Identify Targets on the Sea Bottom and Ship Hulls, Lee Thompson, PhD, Blue View Technologies History of 7,000m Class ROV <i>KAIKO 7000</i> , Hideki Sezoko, Nippon Marine Enterprises, Ltd.	
Date and Time	Room 1	Room 2	Room 3

Wednesday 25 January	Wednesday 25 January	Wednesday 25 January	Wednesday 25 January
8:00 am – 9:30 am	<u>Submersibles</u> ADS2000 Submarine Rescue Dive Suits at ISMERLO exercise in Italy in Summer 2005, Tom Bissett, LCDR Keith Lehnhard, US Navy, DSU, San Diego Construction of the PC 1201 with ABS Class, Robert Wicklund, Deep Ocean Adventures SEAmobile Submersible Search and Recovery Operations in Lake Okoboji, Iowa, Will Kohnen, SEAmagine Hydrospace Corp.	<u>Shipwreck Track</u> Archaeology with an ROV: Techniques used on the SS Republic – from picking up gold coins to LBL Navigation; Ernie Tapanes and Roy Truman, Odyssey Marine High-Definition TV in Deep Water Projects; Lu Romero, Odyssey Marine Exploration	<u>Diving</u> Hydraulics Tools Tutorial Dave Kaplan, Steffen, Inc.
25 January, 2006 Wednesday 10:00 am – 11:30 am	<u>Submersibles</u> Nautical Archaeological Survey Expedition with CAROLYN Submersible in 2006, Dr. George F. Bass, Institute of Nautical Archaeology Manned Submersible-based research and the private sector, Michael McDowell/Peter Batson, DeepOcean Quest Pilot Training Program Overview for TRIUMPH Class Deep Submergence Vehicle, Charles Kohnen, SEAmagine Hydrospace Corp.	<u>Shipwreck Track</u> The Hunley Project – Private/Public Partnership – a review of the Project, Leonard Whitlock The Fable of In Situ Preservation, Hawk Tolson, Odyssey Marine Exploration Advanced Deep Diving Techniques, Safety and Shipwreck Resource Management, Michael Barnette	<u>Diving</u> Hydraulics Tutorial Continued
25 January, 2006 Wednesday 1:30 pm – 3:00 pm	<u>Submersibles</u> Acrylic Viewport Windows for Manned Submersibles, Guy Richards, Blason Ltd. Basic Manned Submersible Hatch Design calculation Considerations, Phil Ziegler, Submersible Consulting Submersible Regulations	<u>Shipwreck Track</u> Panel Discussion “The Legacy of the Titanic: Current Legal, Political, Scientific Issues Relating to the World’s Most Famous Shipwrecks”	<u>Diving</u> Panel Discussion “Federal Response to National Emergency – How the Underwater Operations Industry is Effected”
25 January, 2006 Wednesday 3:30 pm – 5:00 pm	<u>Submersibles</u> Life Support Systems for Atmospheric Pressure Vessel, Peter Readey, Steam Machine, Inc. CO2 Air Extension Systems for Submersible Vehicles, Rick Oddo, Micropore, Inc. Use of Sofnalime Absorbant materials for CO2 scrubbing in PVHO vessels, Dr. Mike Clarke, Molecular Products Inc.	<u>Shipwreck Track</u> Panel Discussion “Shipwreck Ethics and Economics – a panel discuss about the evolving concept of commercial marine archaeology, artifact curation policy, underwater cu resource management and the evolving role of international law and policy.”	
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Thursday 26 January	Thursday 26 January	Thursday 26 January	Thursday 26 January
8:00 am – 9:30 pm	<u>General</u> Proposal of a Master Degree in Underwater Inspection for Engineers in Venezuela, Rogelio Morales, Central University of Venezuela	<u>AUVs</u> Development of Fuel Cell Type Autonomous Underwater Vehicle “Urashima”, Junichiro Tahara, JAMSTEC Efficient Methods for AUV in JAMSTEC, Akihisa Ishikawa, JAMSTEC Development of an Autonomous Underwater Vehicle Manipulator System, Raj Pandian, Tulane University	<u>Acoustics Tutorial</u> Ian Florence Chuck Richards
26 January, 2006 Thursday 10:00 am – 11:30 am	<u>General</u> Deep Water Test of the Sea Floor Drill Rig “MeBo”, Gerold Wefer and Tim Freudenthal, University of Bremen New Life for Retired Oil Field Vehicles doing marine Scientific Research with the Hawaii Undersea Research Lab, John R. Smith, University of Hawaii Synchronous UTC Ephemeris second developing North Atlantic Hurricanes, Therese Schneck, International Ordovician and Petroleum Services	<u>Education</u> WANTED: Industry Professionals to Mentor MATE ROV Competition Student Teams, Jill Zande, MATE Center The Use of ROV in Natural Resources Public Education for all ages, Mark Gleason, PhD Candidate, MTU Students, Robots, and Ocean Science, Gina Doyle, Student, Memorial University of Newfoundland	<u>Acoustics Tutorial</u> continued
26 January, 2006 Thursday 1:30 pm – 3:00 pm	<u>General</u> “Are Over-the-Side Poles Over?”, Ian Florence, Kongsberg Maritime LTD The Versatility of Diamond Wire Cutting Technology in Very Deep Water, Eddie Grant, Cutting Underwater Technology		<u>Sonar Tutorial</u> Mark Atherton Chuck Richards
26 January, 2006 Thursday 3:30 pm – 5:00 pm			<u>Sonar Tutorial</u> continued