

Schedule & Authors & Titles

Thursday 21 October 2010

08:30 to 09:00 Registration

09:00 to 09:30 Welcome address & workshop arrangements

ROV Operations

09:30 to 10:00 David Shea, Using ROVs as a Benthic Habitat Inspection Tool

10:00 to 10:30 Serdar Soyly, Controlling Manipulators for ROVs

10:45 to 11:15 Gary Dinn, ROV Operations with a Sub-Bottom Profiler

Autonomous Operations

11:15 to 11:45 Mae Seto, On-Board AUV Autonomy through Adaptive Fins Control

11:45 to 12:15 Mingxi Zhou, Autonomous Iceberg Draft Measurement Probe (AIDMP)

13:00 to 13:30 Mae Seto, Collaborative AUVs for Survey and Search Missions

New Vehicles

13:30 to 14:00 David Shea, Design and Development of Innovative Twin-Pod AUVs

14:00 to 14:30 Moqin He, A Hydrodynamics Simulator Developed for a Twin-Pod AUV

14:30 to 15:00 Reynolds Marion, Marion Hyper-Sub Provides Daily Access to the Deeps

Ocean Glider Technology

15:15 to 15:45 Charlie Bishop, A 400 kHz ADCP on a Webb Slocum Ocean Glider

15:45 to 16:15 Brian Claus, Hybrid Glider Progress and Future Directions

16:15 to 16:45 Dong Cheol Seo, CFD Predictions for Ocean Gliders

16:45 to 17:15 Andrey Morozov, Acoustic Technology for Glider Long-Range Navigation and Communications

17:15 to 18:30

Tours of NRC-IOT and MUN Autonomous Ocean Systems Laboratory (AOSL)

Friday 22 October 2010

Field Operations

09:00 to 09:30 Dana Yoerger, Hydrothermal Vent and Oil Spill Tracking with an AUV

09:30 to 10:00 James Kinsey, Recent Field Operations with the Sentry and Nereus Vehicles

Path Planning

10:00 to 10:30 Jonathan Hudson, 3D Path Planning of a USV for Multiple AUV Operations

10:45 to 11:15 Jorge Cabrera, PINZON: A Path Planner for Underwater Gliders

New Capabilities

11:15 to 11:45 Shawn Woods, Automated Ballast Control System for an AUV

11:45 to 12:15 George Watt, UUV Docking with a Submarine Proceeding at Low Speed

15:15 to 15:45 Chris Roper, Hydrocarbon Sniffers for AUVs and ROVs for Pipeline Monitoring

Friday 22 October 2010 (continued)

International Submarine Engineering (ISE) AUVs in Action

13:00 to 13:30 Peter King, The MUN Explorer AUV: Developments for Under-Ice Research

13:30 to 14:00 Richard Pederson, The UNCLOS Project - How AUVs are assisting Canada

14:00 to 14:30 Manoj Issac, Manoeuvring Experiments Using the MUN Explorer AUV

14:30 to 15:00 William Markuske, High Resolution Seabed Sub-Bottom Profiler for an AUV

15:45 to 16:30

Roundtable and Wrap-up Discussion