

6th Biannual NRC-IOT Workshop on Underwater Vehicle Technology 21 & 22 October 2010, Atlantic Room

(in partnership with NATI, OceansAdvance, the MUN Genesis Centre, IEEE-NL, OES-NL and Marport)

A two-day workshop will take place Thursday and Friday October 21 and 22, 2010 at the National Research Council Canada (NRC), Institute for Ocean Technology (IOT) in St. John's, Newfoundland.

The NRC-IOT workshop will be a forum for specialists from industry, university and research organizations. We anticipate having presentations that address the following five major topics.

1. Multi-agent vehicle systems - what hardware and software is required to make this happen, who is working in this area, what progress has been made, what are the major challenges, where are the opportunities for collaboration?
2. Autonomous "gateway" or "beacon" vehicles as part of a "fleet" of autonomous submerged vehicles - fleet path planning and optimization, role of COTS software.
3. Under-ice navigation and tracking - inter-vehicle communications while submerged.
4. Vehicle technology (gizmos) - what's new, what's over the horizon, what will be the next "technology enabler"?
5. Customer applications - tracking, monitoring, surveillance and inspection for the Department of Fisheries & Oceans, National Defence, Canadian Coast Guard and the oil and gas industry, and, other commercial interests.

The duration of each presentation will be a maximum of 25 minutes, which will allow five minutes for questions, discussion and change-over. The intent is to have a total of 22 presentations organized into four half-day sessions of five or six presentations each. These plenary sessions will all be held in the Atlantic Room at NRC-IOT; there will be no parallel sessions.

The workshop will feature the *Iver2* AUV and the ocean gliders from the Canadian Centre for Ocean Gliders (CCOG). Also available for viewing is the new IOT AUV Lab, the new Autonomous Ocean Systems Laboratory in the Faculty of Engineering and Applied Science at Memorial University of Newfoundland (MUN). and the Marine Institute's new Marine Base classroom, shops and research facilities at Holyrood. You may have some suggestions for the development of a sea trials capability, site and infrastructure that would be needed for the Holyrood facility.

Financial support for this workshop is provided by the Newfoundland and Labrador Association of Technology Industries (NATI), OceansAdvance Inc. (Newfoundland's Ocean Technology Cluster), the Atlantic Canada Opportunities Agency, the MUN Genesis Centre, the Newfoundland and Labrador Section of the IEEE, the NL Chapter of the Oceanic Engineering Society, and, Marport Deep Sea Technologies Inc.

Coffee and sandwich lunches will be provided each day. A printed copy of the abstracts for the presentations will be provided as a handout at the Registration Desk. After the workshop the presentations will be compiled onto a CD or DVD which will be mailed to all participants; please leave your business card with a mailing address.

Although there is no fee to attend this workshop, if you wish to attend this workshop, please send an e-mail message to 'Christopher.Williams@nrc-cnrc.gc.ca' or to 'Bachmayer@mun.ca' or to 'GLeyte@marport.com' so that we can prepare your name-tag in advance, and, advise the caterers.

Additional information will be posted on the web page

'http://ewh.ieee.org/r7/newfoundland_labrador/oes.php'.