



## Unmanned & Marine Systems Demonstration Day

Friday, November 6, 2015 | 9:00 a.m. – 2:00 p.m.

Survival Systems Training Facility

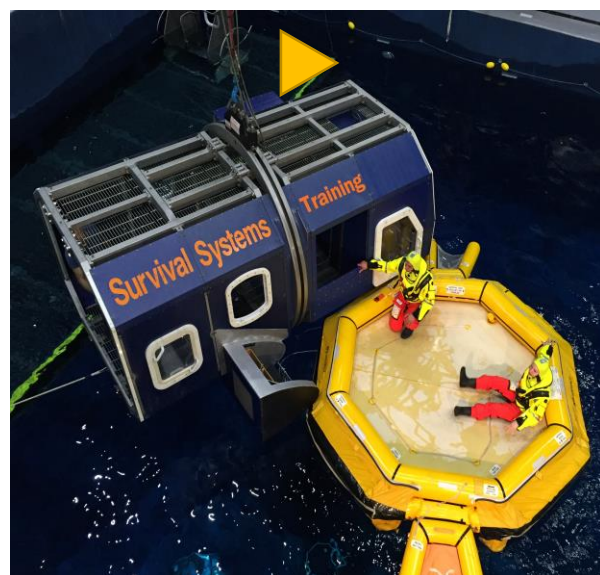
40 Mount Hope Avenue, Dartmouth, NS

The Atlantic Alliance of Aerospace & Defence Associations (AAADA), in partnership with Survival Systems Training Ltd. (SSTL) invite you to join us on Friday, November 6<sup>th</sup> following the Unmanned Systems Canada Conference for an **Unmanned & Marine Systems Demonstration Day**. The demonstration showcase will feature surface and sub-surface unmanned and marine systems technologies utilizing Survival Systems Training's state of the art facility in Dartmouth, NS.

---

### Marine Aviation Survival Training (MAST) Facility

This revolutionary training facility, designed for use in water survival and underwater egress training for the Oil & Gas, aviation and marine sectors, is anchored by a (25m length X 14m width X 5m depth) pool with extreme environmental effects. The MAST facility is able to create the ultimate practical training experience in simulated real world conditions for personnel working in harsh or high-risk conditions



## PROGRAM\*

*Group transportation will be provided to and from the event location, with pick up at the [Delta Hotel, 1990 Barrington Street](#), at 08:30 hrs. Bus transportation will be provided by [Ambassatours Gray Line](#).*

08:30	Pick up event participants (Delta Halifax, 1990 Barrington Street)
09:00 - 09:10	Welcome & Opening Remarks
09:10 - 09:50	Demo #1 – Deep Vision
10:00 - 10:40	Demo #2 – Ultra Electronics Maritime Systems
10:50 - 11:30	Demo #3 – Ocean Tracking Network/Meopar
11:40 - 12:20	Networking Lunch
12:30 – 13:10	Demo #4 – Prince Andrew High School Underwater Robotics Team
13:20 – 13:50	SSTL Facility & Capability Demonstration
14:00	Return transportation (Delta Halifax, 1990 Barrington Street)

*\*Program subject to change. Updates will be published on the [Unmanned Systems Canada](#) and [AAADA](#) websites.*

## REGISTRATION

This is a **free event** that is open to all Unmanned Systems Canada Conference participants or anyone with an interest in participating in this showcase. Pre-registration is required and space is limited so please register early!

[Register Now!](#)

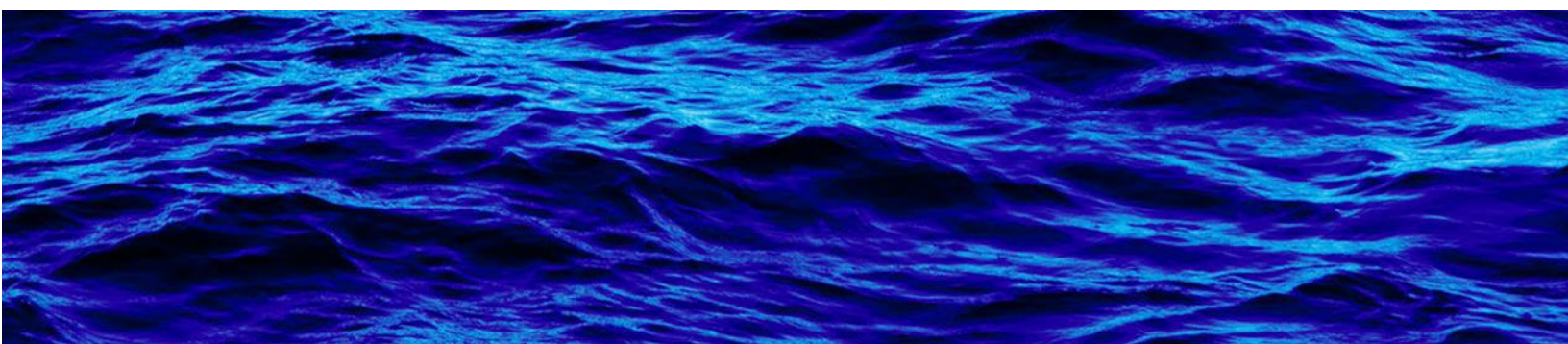
You may also register for this event when completing your Unmanned Systems Canada Conference registration or on-site during the conference (space permitting).

## INQUIRIES

Questions concerning this event may be directed to:

Lisa Clory  
AAADA Business Services  
e: [lisa@aaada.ca](mailto:lisa@aaada.ca)  
t: 902.313.2961

**\*\*Event organizers reserve the right to cancel this event pending the level of participation\*\***



## Demonstrations

---



Demonstrator(s): **Michael Outhouse** - CSO, Deep Vision  
**Alvin Beach** - CTO, Deep Vision

Description: Deep Vision Inc. is a 100% Canadian owned, ISO 9001:2008 certified company, located in Dartmouth, Nova Scotia that specialises in developing real-time, intelligent machine perception capability for autonomous systems. Deep Vision will demonstrate a proof-of-concept detection and tracking technology for use in Search and Rescue, Maritime Surveillance, Station Keeping and Threat Assessment applications.



### Maritime Systems

Demonstrator(s): **Rob Gascoigne** - Sales and Marketing Manager, Ultra Electronics Maritime Systems

Description: Ultra Electronics' DiverCOMM™ is a state-of-the-art wireless diver communication system that provides secure, short-range, two-way voice communications between divers in the most challenging underwater environments. DiverCOMM™ uses a Magneto Inductive field which can transition through mediums such as earth, water, ice and various other substrates.

Resources:

- [DiverCOMM™ Brochure & Technical Specifications](#)
- [DiverCOMM™ Product Video](#)



Demonstrator(s): **Adam Comeau** - Lead Glider Technician, Ocean Tracking Network

Description: Ocean Tracking Network and Meopar will demonstrate their [Webb Research Slocum Glider](#). The slocum glider is an autonomous underwater vehicle capable of profiling the water column from 0 to 200m, collecting data using a variety of sensors. Data metrics typically measure salinity, temperature, water clarity, oxygen concentration and listen for marine mammals. The glider is preprogrammed and capable of independent actions for up to a month. It surfaces at regular intervals and establishes a two-way communications link via Iridium, at which time it uploads diagnostic information and science data and downloads any new instructions.



Demonstrator(s): **Peter Redmond** - Technology Education Teacher & Underwater Robotics Team Mentor, Prince Andrew High School  
**Prince Andrew Underwater Robotics Team**

Description: The Prince Andrew Underwater Robotics Team Students will demonstrate the ROV they constructed to compete in the MATE ROV International Competition last year (placed 6<sup>th</sup>). The Students developed proprietary software to enable intuitive ROV control using an XBOX controller. The ROV is constructed out of HDPE in order to complete tasks surrounding the industry and exploration of the Arctic.

Resources:

- [Umbra Specification Sheet](#)
- [Umbra Technical Report](#)