

March 28, 2018 Meeting Notice
**Ocean Sensing for Science, Commerce and
Defense Using Robotic Systems**

Dr. Louis St. Laurent
DINNER: The Village Haven, Forestdale RI

Speaker: Dr. Louis St. Laurent, Senior Scientist, Woods Hole Oceanographic Institution
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Topic: Ocean Sensing for Science, Commerce and Defense Using Robotic Systems

Location: The Village Haven Restaurant, 90 School St. Forestdale, RI. Located 20 minutes north of Providence, just off Route 146 – See Map, pg. 2

Time: Wednesday, March 28, 2018 – Networking 5:30 PM, Dinner 6:30, Speaker to follow
NOTE: Dinner choice / reservations needed by noon, Monday, March 26th.

Dinner: Choice of one: **Family Style Chicken** (All You Can Eat!), **Baked Scrod**, **Prime Rib**, or **Vegetarian meal** (note that only the chicken is unlimited) Select when you reserve.

Cost: Presentation & Dinner: ASM Members \$25, Guests \$30, Students & ASM Retirees \$15

Reservations: Reply to this e-mail with your intentions, or click the link below:
asmri@mail.com

Abstract: The ocean has long been a driver for technological innovation, famously for precision time keeping and sonar technologies. More recently, the challenges of at-sea operations have driven advances in autonomous robotic systems. Unlike many terrestrial and aerospace robotic technologies, ocean systems are generally not able to maintain frequent communication contact with human users. As such, ocean robots execute many of their mission functions through autonomous behaviors triggered by sensors that detect the environment. This includes the sensing ocean weather conditions, currents, and bathymetry. Commercial applications involve the assessment of fisheries, marine traffic and off-shore energy production. Defense applications include tracking of marine targets, and sensing in regions not accessible to traditional data collection methods. An overview of current technologies and examples of their use will be presented.



Woods Hole Oceanographic Institution is the world's leading, independent non-profit organization dedicated to ocean research, exploration, and education. Our scientists and engineers push the boundaries of knowledge about the ocean to reveal its impacts on our planet and our lives.





Dr. Louis St. Laurent

Senior Scientist
Woods Hole Oceanographic
Institution

Dr. Louis St. Laurent is a Senior Scientist in Physical Oceanography at the Woods Hole Oceanographic Institution (WHOI). His research interests include turbulent processes of the ocean, and the use of autonomy to acquire measurements in areas inaccessible to conventional measurement methodologies. His research has specifically focused on the South China Sea where tides, typhoons, and monsoons contribute to an extremely energetic turbulent cascade. He has also worked extensively in the Drake Passage region of the Southern Ocean, and at mid-ocean ridges throughout the world. He received his B.S. in Physics from the University of Rhode Island, and his Ph.D. in Physical Oceanography from the MIT/WHOI Joint Program. He was the 2012 recipient of the Fofonoff Award of the American Meteorological Society.

Directions: Village Haven Restaurant www.thevillagehaven.com

GPS: 90 School St., Forestdale, RI

- From 146 Northbound, take the Forestdale Exit
- Left at end, onto School St.
- Destination is 1 mile on right.

- From 146 Southbound, take the Forestdale Exit (1st exit in RI)
- Left at the top of the exit
- First right onto School St.
- Destination is 1 mile on right

