



marine technology
SOCIETY

Opportunity runs deep™

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**HYDRO SOCIETY
Northwest Chapter**

**The Marine Technology Society
Puget Sound Section**

with

IEEE-OES, Seattle & Hydro Society of America

PROUDLY PRESENTS

Martin Garthwaite

Inventor and IP Patent Attorney
Fish Boat, Inc. and Aeon Law

**“fishBOAT: fish-like motion with "one"
moving part, no hull penetration, and a
simple design”**

**THURSDAY - 21 MAY 2015
1800 - 2100**

LOCATION: University of Washington, Seattle
Ocean Sciences Building, Room 425
(~ 1492 NE Boat St, 98105 – see maps on 3rd page)

COST: Society members \$20; Non-members \$25; Students \$10. Cost includes dinner and a drink. Donations for the 2015 Student ROV events are gladly accepted.

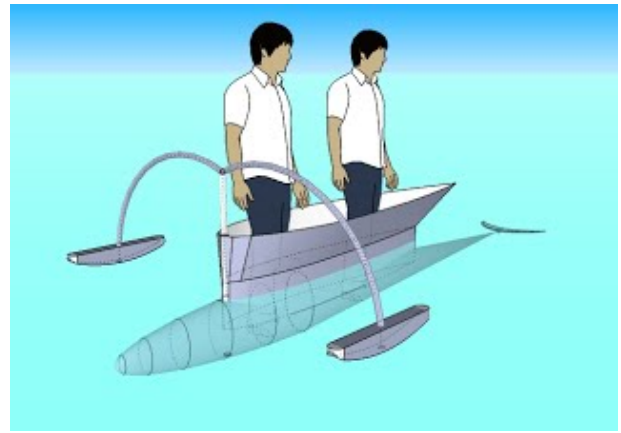
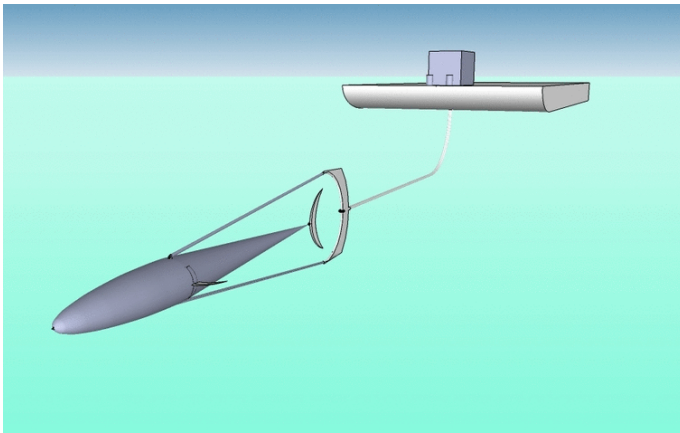
RSVP: **Please RSVP** to Carol Coomes at Carol.Coomes@rspgroup.com or 206-526-5622 by **Tuesday May 19th** so we have enough food!

Topic: fishBOAT: fish-like motion with "one" moving part, no hull penetration, and a simple design

Martin Garthwaite presents the fishBOAT -- a drone watercraft which achieves fish-like motion with (almost) one moving part and no water-sealed bearings or hull penetration. Power utilization and bollard pull data from the first functioning tow-craft prototype will be presented, as will designs for

- i. A small commercial solar-powered tow-craft (suitable for data acquisition) and
- ii. An autonomous torpedo version (not necessarily a tow-craft).

Drive the 1' tow-craft prototype in a demonstration tank! The human-powered fishBOOT which lead to development of the fishBOAT will also be presented.



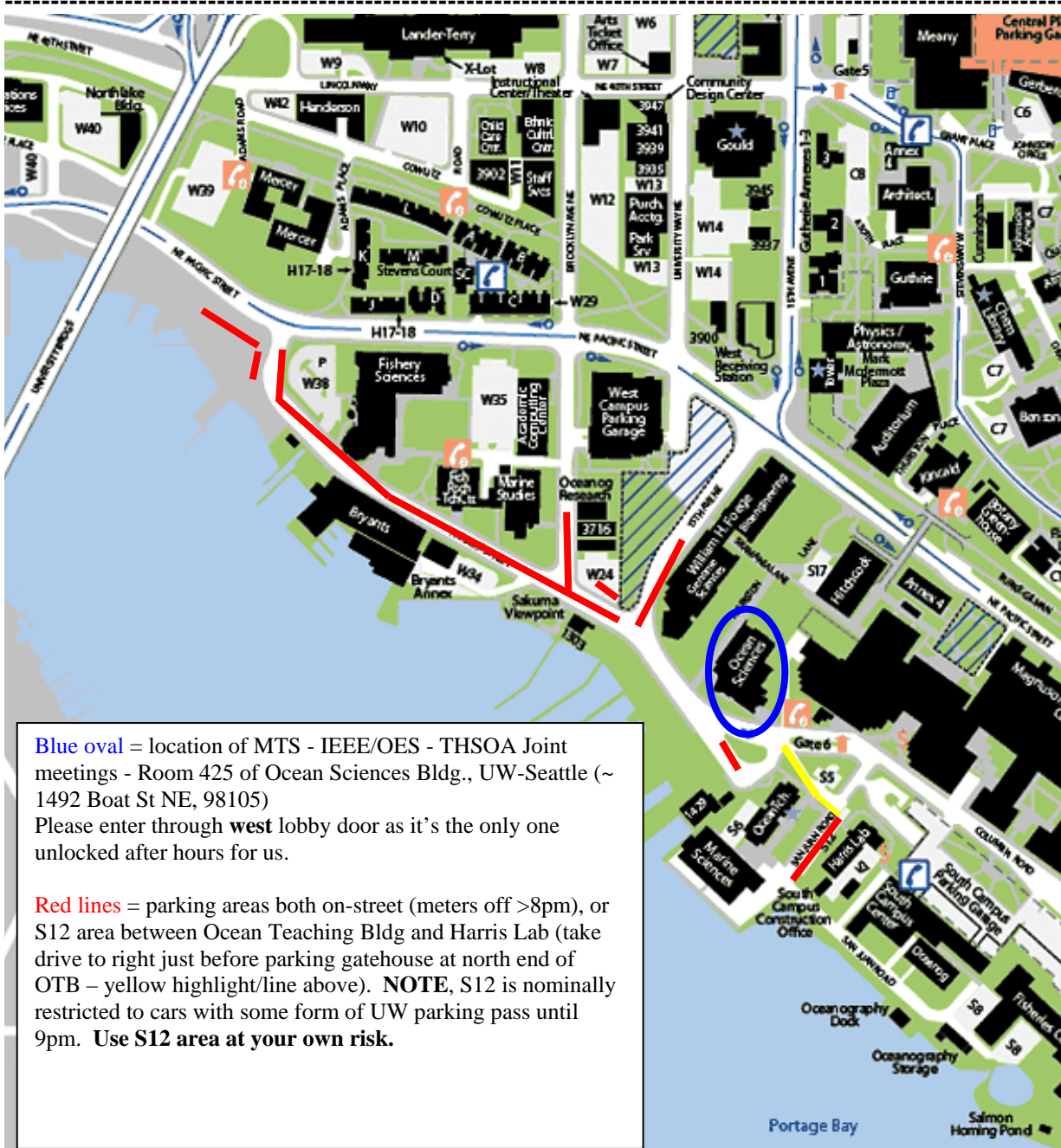
Speaker: Martin Garthwaite, Inventor and IP Patent Attorney, Fish Boat, Inc. and Aeon Law

Martin Garthwaite is a patent attorney at Aeon Law with a life-long interest in fluid dynamics. Martin and Billy Roeseler formed Fish Boat, Incorporated, to explore various issues relating to swimming craft and, hopefully, to commercialize some form of a swimming craft.



Coming Events:

- June TBD – Annual BBQ



Blue oval = location of MTS - IEEE/OES - THSOA Joint meetings - Room 425 of Ocean Sciences Bldg., UW-Seattle (~1492 Boat St NE, 98105)
 Please enter through **west** lobby door as it's the only one unlocked after hours for us.

Red lines = parking areas both on-street (meters off >8pm), or S12 area between Ocean Teaching Bldg and Harris Lab (take drive to right just before parking gatehouse at north end of OTB – yellow highlight/line above). **NOTE**, S12 is nominally restricted to cars with some form of UW parking pass until 9pm. **Use S12 area at your own risk.**