

Last Revised: October 26, 2005

**FINAL**

**NUWC-URI Undersea Technology Workshop  
System Concepts for Coastal Ocean Monitoring**

**Coastal Institute Auditorium  
Coastal Institute Building  
Narragansett Bay Campus  
University of Rhode Island  
Narragansett, RI**

**October 27, 2005**

**Workshop Goals:**

- To bring together researchers from URI and NUWC to learn of the capabilities and research portfolios of each organization, to contribute to undersea science and technology, and to understand naval and civilian needs for such technology
- To identify opportunities for collaborative research

**Agenda**

0850 - 0900	<b><i>Welcome and Overview of Workshops</i></b> Malcolm L. Spaulding, Ocean Engineering, URI John Muench, NUWC
0900 – 0930	<b><i>NUWC Technology Landscape</i></b> Peter Herstein, NUWC
0930 – 0945	<b><i>Sensing Technologies – Status and Challenges</i></b> Rolf Kasper, NUWC
0945 – 1000	<b><i>Power Technologies and UUV's – Status and Challenges</i></b> Jim Griffin, NUWC
1000– 1015	<b><i>Technologies for Undersea Awareness</i></b> Pat Kelly, NUWC
1015 – 1030	Break
1030 - 1045	<b><i>Human System Interface Technologies – Status and Challenges</i></b>

- Bruce Sandman, NUWC
- 1045 – 1100      ***Transport Technologies – Status and Challenges***  
Vic Ricci, NUWC
- 1100 – 1115      ***Netting Technologies – Status and Challenges***  
Gene Hackney, NUWC
- 1115 – 1130      ***Communications Technologies – Status and Challenges***  
Bill Craig, NUWC
- 1130 – 1145      ***URI Technology Seascape***  
Dean Farmer, Graduate School of Oceanography, URI
- 1145 – 1200      ***Coastal observatory with an acoustic sensor array, BEAMER***  
David Farmer, Graduate School of Oceanography, URI
- 1200 – 1300      Lunch (provided)
- 1300 – 1330      ***An undersea sensor network for real-time coastal observation***  
Percy Donaghay and Al Hanson, Graduate School of  
Oceanography, URI
- 1330 - 1345      ***Wireless sensor network protocols and system software for sensor  
nodes***  
Lisa DiPippo, Associate Professor, Computer Science, URI  
Victor Fay-Wolfe, Professor, Computer Science  
Tim Henry, Adjunct Assistant Professor, Computer Science  
Dave Tucker, Research Staff
- 1345 –1400      ***COASTMAP 3-D: An integrated undersea data management and  
information system.***  
Malcolm L. Spaulding, Ocean Engineering, URI
- 1400- 1415      ***Acoustic velocity sensors and bullets in a shallow water  
environment***  
Peter Stepanishen and Harold Vincent, Ocean Engineering, URI
- 1415 – 1430      Break
- 1430 –1445      ***Underwater acoustic Global Positioning System (GPS)***  
James Hu and Harold Vincent, Ocean Engineering, URI
- 1445 - 1500      ***Coastal observatories: Environmental assessment of ocean waves  
(wind waves, freak waves, internal waves, tsunamis) through  
numerical modeling and real-time monitoring using an inverted***

Stephan Grilli, Ocean Engineering, URI

1500 – 1515

*A new low cost seafloor observatory*  
Kate Moran, Ocean Engineering, URI

1515 – 1600

Open discussions, potential collaborative research activities

See <http://www.gso.uri.edu/aboutGSO/campusmap.html> for building location (#6)

A follow-on workshop will be held at NUWC, Chaffee Auditorium on November 16, 2005, 9 AM to 4 PM.