



20,000 Gigabits Under the Sea: Next-Generation Ocean Science off the Washington & Oregon Coasts

A presentation by **Dr. John Delaney, Professor of Oceanography, University of Washington.**

Ocean Shores Convention Center • 7:00pm • Thursday, May 20, 2010

This is your exclusive invitation to attend a presentation by Dr. John Delaney, University of Washington Professor of Oceanography, Principal Investigator and Director of the Regional Scale Nodes Program, and holder of the Jerome M. Paros Endowed Chair in Sensor Networks. The Grays Harbor County Marine Resources Committee, Washington Sea Grant, and the University of Washington's College of the Environment are sponsoring the event.

Dr. Delaney leads the University of Washington team that is building a regional ocean observatory off the Oregon and Washington coasts. This observatory, earlier known as NEPTUNE but now known as the Regional Scale Nodes, is one component within the U.S. National Science Foundation's Ocean Observatories Initiative, a network of instruments, undersea cables, and instrumented moorings that,

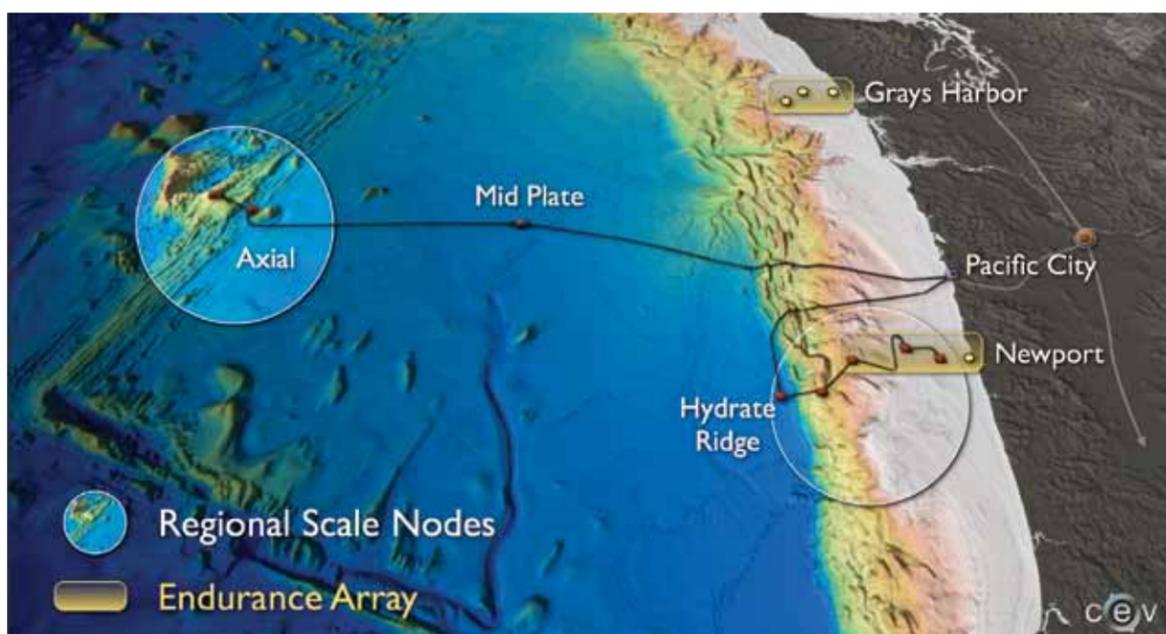
when completed, will span the Western Hemisphere. One of the largest-ever ocean science programs, the Initiative is managed and coordinated by the Consortium for Ocean Leadership. Other institutions involved in construction of this network include Oregon State University, Woods Hole Oceanographic Institution, and Scripps Institution of Oceanography.

Our presenter, John Delaney, is a passionate and tenacious advocate for launching next-generation ocean science, including the Regional Scale Nodes approach of using hundreds of kilometers of fiber-optic/power cable to connect robot-sensor networks in the northeastern Pacific Ocean. These networks will allow continuous and real-time observations and interactions with the complexities of the oceans including: weather-producing currents, inhabitants ranging from seafloor microbes to blue whales, and the underlying

tectonic plates that are responsible for generating massive earthquakes and tsunamis. Scientists will be able to conduct experiments as well as study complete plant and animal life cycles from their laboratories onshore.

By extending the Internet into the oceans, this effort will help anyone with access to the Web to better understand living in, on, and around this giant natural resource on our doorstep. To obtain more information about the project go to <http://www.interactiveoceans.washington.edu/portal/Observatories> or <http://www.oceanobservatories.org/>.

The presentation will take about an hour and will be followed by a question and answer session. You are encouraged to ask questions that lead you to a better understanding of this project and its possible effects on the future of our area, its businesses and the people who live here.



**For more information,
e-mail: ghcmrc@co.grays-harbor.wa.us**

Sponsors: Grays Harbor County MRC, WA Sea Grant, UW College of the Environment, Regional Scale Nodes Program. Graphics courtesy of Regional Scale Nodes Program and Center for Environmental Visualization at the University of Washington.

