

2009 Fellow of the American Geophysical Union



Clare Reimers

Professor, Chemical Oceanography

Clare Reimers, Professor of Chemical Oceanography at Oregon State University, was named a Fellow of the American Geophysical Union (AGU) in 2009.

The international scientific organization AGU focuses on the understanding of the Earth and space, and promotes research, education and outreach in fields including geology, oceanography, atmospheric sciences, volcanism, seismology, and others. Acceptance as fellows to the AGU is restricted to fewer than one-tenth of 1 percent of its members each year. Reimers was honored at the American Geophysical Union's General Assembly May 24–27 in Toronto, Canada.

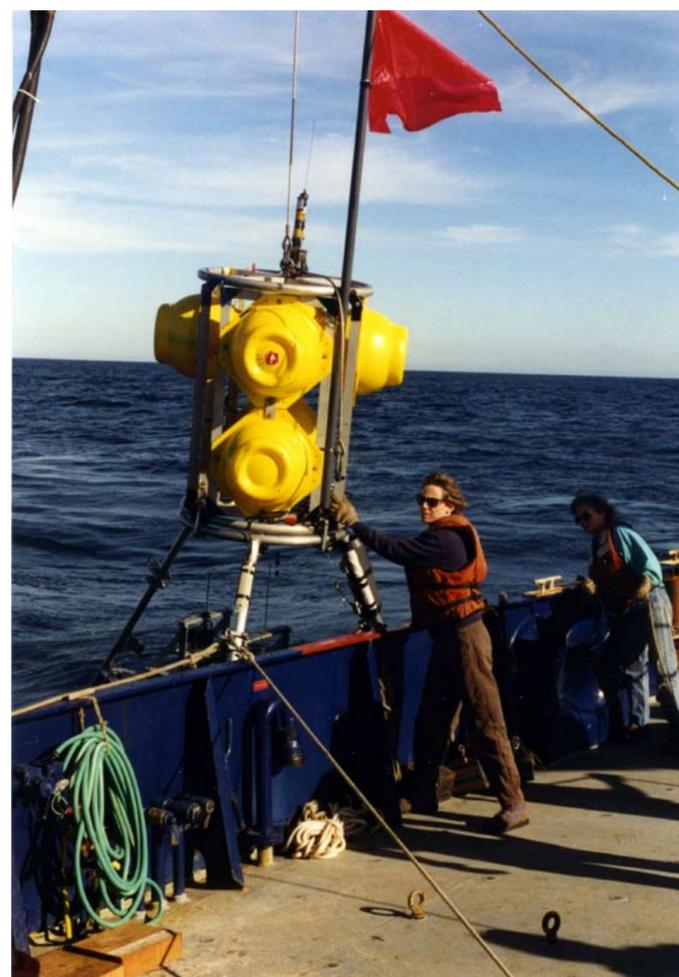
Reimers is on the faculty of OSU's College of Oceanic and Atmospheric Sciences, and also works out of the university's Hatfield Marine Science Center in Newport. Her research has focused on the biogeochemistry of ocean sediments and the development of chemical sensors for quantifying ocean chemical

distributions and fluxes. Beginning in 2001 she received attention for her efforts to develop long-term power sources for ocean sensors that harness energy from marine sediments and phytoplankton.

These power sources are similar to batteries but they are fueled with decaying plankton and catalyzed by bacteria. "The ocean is rich in microorganisms adept at shuttling electrons to fuel cell electrodes," Reimers said.

In 2009 Reimers also is leading a research program aimed at developing the capability to assess from ocean observatories how the benthic component of the coastal carbon cycle may vary over time and contribute or respond to human impacts and climate variability. Her studies have been funded by the National Science Foundation, NOAA, the Department of Defense and other sources.

Reimers received a BS in Environmental Science in 1976 from the University of Virginia. She received an MS in Oceanography in 1978 and a PhD in 1982 from Oregon State University. After positions at Scripps Institution of Oceanography and Rutgers University, Reimers came to Oregon State University in 2000 as Professor, Senior Research, and was named Professor with tenure in 2002. From 2000–2005, Reimers served as Director of the Cooperative Institute for Marine Resource Studies.



Clare Reimers in 1995 on the R/V New Horizon during the recovery of a benthic tripod carrying two microelectrode profilers. Reimers developed this instrumentation in the late 1980s for measuring fine-scale chemical profiles across the sediment water interface.

"I have been fortunate throughout my career to have the support of an inspiring and caring group of mentors and colleagues. I am grateful to them once again for nominating me for this honor from AGU. We have advanced the field of biogeochemistry together. Hopefully, we can continue to teach the next generation about the importance of the oceans and the joys of scientific discovery." — Clare Reimers