

WASHINGTON SEA GRANT PRESENTS

# Symposium on Ocean Acidification

*Washington Sea Grant welcomes you to the Symposium on Ocean Acidification.*

Today's program features panel discussions with resource managers, scientists, decision makers and others with informed perspectives on this worldwide phenomenon and its possible impacts on Puget Sound and the Outer Coast.

Following the panels, there will be a reception for attendees to visit and share their views about ocean acidification as it pertains to the Pacific Northwest.

To facilitate further information sharing, we will soon be posting a password-protected directory of contact information on our website ([wsg.washington.edu/admin/ocean\\_acidification.html](http://wsg.washington.edu/admin/ocean_acidification.html)).

We thank everyone for joining us today.

**November 9, 2011**

**Center for Urban Horticulture,  
University of Washington campus**



## Agenda

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12:30 p.m.

**Registration** (Auditorium, Center for Urban Horticulture)

1:00

**Welcome:** Penny Dalton, Director, Washington Sea Grant

1:05-1:25

**Opening Remarks:** Bill Dewey, Director of Policy and Communications, Taylor Shellfish

1:30-3:00

### **Ocean Acidification in the Pacific Northwest**

**Moderator:** Richard Feely, Senior Scientist, NOAA Pacific Marine Environmental Laboratory

#### **Panelists**

**Terrie Klinger**, University of Washington, School of Marine and Environmental Affairs

**Brady Olson**, Western Washington University, Shannon Point Marine Center

**Carolyn Freidman**, University of Washington, School of Aquatic and Fishery Sciences

3:00-3:15 *break*

3:15-4:55

### **Ocean Acidification: Public and Policy Implications**

**Moderator:** Brian Baird, former Washington 3<sup>rd</sup> District Congressman

#### **Panelists**

**Ron Sims**, former Deputy Secretary, U.S. Department of Housing and Urban Development

**Micah McCarty**, Chairman, Makah Tribal Council

**Sandra Brooke**, Coral Conservation Director, Marine Conservation Institute

**Eric Scigliano**, Science Writer

**Hedia Adelsman**, Executive Policy Advisor, Washington Department of Ecology

4:55-5:00

### **Closing Remarks**

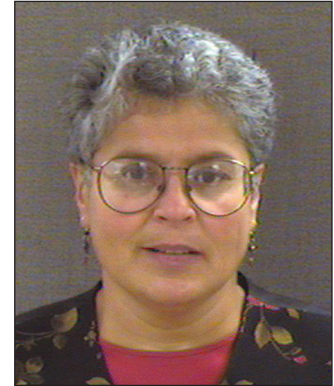
5:00-6:00

**Reception** (Commons, Center for Urban Horticulture)

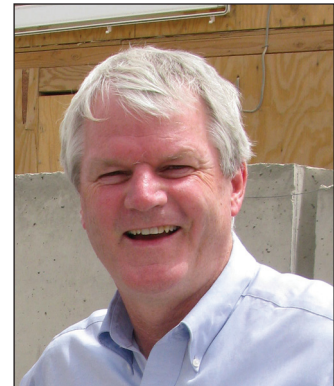
## Speaker Biographies

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**Hedia Adelsman** is an executive policy advisor with the Washington Department of Ecology. She has over 25 years of extensive and diverse experience in natural resources and environmental and water resources management and is currently working on climate change mitigation and adaptation strategies, energy sitting and development and innovative water management approaches. Adelsman served for four years on the Governor's Salmon Recovery Team. She was Special Assistant for Land Use and Regulatory Programs at the Department of Ecology and also managed the Water Resources Program within the department for seven years.



**Brian Baird** served for 12 years in the U.S. House of Representatives (WA 3<sup>rd</sup> Dist.), where he focused on science and technology, energy, health care, oceans, foreign policy, fiscal discipline and Congressional integrity. He was known and respected for taking principled stands, careful study of issues and the ability to build bipartisan relationships. He authored the Federal Ocean Acidification Research and Monitoring Act of 2009. He is also a social scientist and licensed psychologist.



**Sandra Brooke** is Director of Coral Conservation at the Marine Conservation Institute and a member of the courtesy research faculty at the University of Oregon. Her work at the Marine Conservation Institute focuses on protecting coral ecosystems from a variety of anthropogenic impacts, primarily through the designation and effective management of marine protected areas. Past experience includes



research and monitoring of shallow coral reefs and, more recently, exploration, ecology and biology of deepwater coral ecosystems in the southeastern U.S., Gulf of Mexico, Alaska and Norway. Her research has included field and laboratory experiments on tolerance of deep corals to environmental variation and how this affects their distribution, health and ultimately their resilience to human activities.

**Penny Dalton** is Director of Washington Sea Grant, part of the National Oceanic and Atmospheric Administration (NOAA), based at the University of Washington. She is an affiliate associate professor in the UW School of Marine and Environmental Affairs. Previously, she was vice president of the Consortium for Oceanographic Research and Education, where she was involved in efforts to strengthen ocean science and policy, including implementation of the recommendations of the U.S. Ocean Commission. She served from 1999 through 2001 as NOAA's assistant administrator for fisheries and head of the National Marine Fisheries Service. Prior to this, she was a staff member on the U.S. Senate Committee on Commerce, Science, and Transportation for 13 years and directed the Democratic staff of the subcommittees on Oceans and Fisheries and Science, Technology and Space.



**Bill Dewey** is Manager of Public Policy and Communications for Taylor Shellfish Company, the largest producer of farmed shellfish in the country, and owns and operates his own manila clam farm in Samish Bay. He serves on a number of boards and committees locally and nationally, including NOAA's Marine Fish Advisory Committee and the Board of Directors of the National Aquaculture Association and the Pacific Shellfish Institute. In 2008, NOAA presented him with their Environmental Hero award in recognition of his work over the past two decades to help develop and implement public policy that protects water quality and marine resources and supports sustainable aquaculture.



**Richard Feely** is the leader of the CO2 program at NOAA Pacific Marine Environmental Lab here in Seattle, and is also on the faculty at the UW School of Oceanography. He is also a member of the Steering Committee for the U.S. Carbon and Biochemistry Program. His major research areas are carbon cycling in the oceans and ocean acidification processes. He has received numerous awards for his pioneering research on the process of ocean acidification, including the Department of Commerce Gold Award in 2006 and the Heinz Award in 2010.



**Carolyn Friedman** is a marine pathologist and University of Washington professor who specializes in marine invertebrate disease diagnostics and ecology. She has published over 60 peer-reviewed journal publications and book chapters. Her work focuses on the ecology of several marine diseases: withering syndrome, a rickettsial disease of abalone, herpesvirus infections in oysters, and vibriosis of larval marine mollusks. She also investigates the influence of ocean acidification on marine mollusks including its influence on host-parasite relationships. Her ocean acidification work is also expanding to include multi-generational studies. She develops and validates diagnostic and quantification methods (both classical pathology and molecular) for a variety of shellfish and fish diseases for use in both laboratory and field studies.



**Terrie Klinger** is the Barer Professor of Sustainability Science at the UW's School of Marine and Environmental Affairs. She obtained her Ph.D. in biological oceanography from the Scripps Institution of Oceanography. Her research spans marine ecology and marine policy and is increasingly focused on contemporary changes in nearshore ecosystems. She is



the director of UW's Graduate Training Program in Ocean Change and serves as the Governor's appointee to the Northwest Straits Commission. She is also the past chair of the Olympic Coast National Marine Sanctuary Advisory Council.

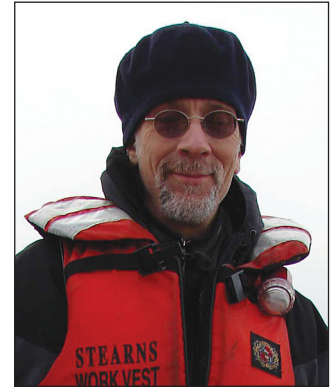
**Micah McCarty** is Chairman of the Makah Tribal Council. He has been pioneering tribal ocean policy on environmental protection, including the areas of climate change, integrated resource management and natural energy (his efforts led to the Makah receiving the first Federal Energy Regulatory Commission license for wave energy project). He was elected to the National Ocean Council Governance Coordinating Committee and was recently elected Vice Chair of this group. He is currently working on a national symposium on climate change and sustainability for U.S. coastal indigenous people.



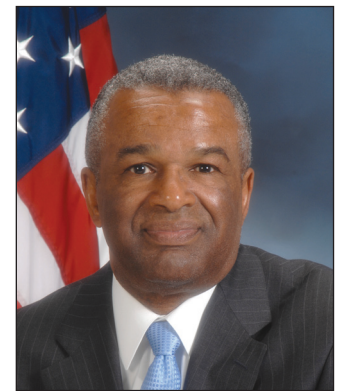
**M. Brady Olson** is a marine scientist at the Shannon Point Marine Center and an instructor with the Department of Biology at Western Washington University. His research interests are wide-ranging but center on the mechanisms that structure marine plankton food webs and energy transfer. He is especially interested in exploring how ocean acidification alters phytoplankton physiology, biochemistry and morphology, and how these changes alter the feeding and growth rates of zooplankton grazers. He has worked extensively in the Bering Sea, Gulf of Alaska, the U.S. Pacific Northwest coast, and the eastern equatorial Pacific.



**Eric Scigliano** is a Seattle-based journalist who has written on local marine and environmental issues (among many other subjects) for more than 25 years. His books include *Puget Sound: Sea Between the Mountains* and (with the oceanographer Curtis Ebbesmeyer) *Flotsametrics: How One Man's Obsession with Floating Ducks and Runaway Sneakers Revolutionized Ocean Science*. He has contributed to *Harper's*, *New Scientist*, *Discover*, MIT's *Technology Review*, *The New York Times*, and many other periodicals, and has received Livingston, Kennedy, and American Association for the Advancement of Science writing honors. His articles on ocean acidification have appeared in *Seattle Metropolitan* and *OnEarth* magazines.



**Ron Sims** was appointed by President Obama to serve for two years as the Deputy Secretary for the U.S. Department of Housing and Urban Development. Prior to his appointment at HUD, Sims served for 12 years as the elected Executive of Martin Luther King Jr. County in Washington state, the 13th largest county in the nation. As County Executive, Sims was nationally recognized for his work on the integration of environmental, social equity and public health policies that produced groundbreaking work on climate change, health care reform, affordable housing, mass transit, environmental protection, land use, and equity and social justice. He was named Leader of the Year by *American City and County Magazine* in 2008 and was recognized as one of *Governing Magazine's* Government Officials of the Year in 2007. He has been honored with national awards from the Sierra Club, the Environmental Protection Agency and the National Committee for Quality Assurance. Sims joined former Senator Edward Kennedy and California Governor Arnold Schwarzenegger as recipients of the 2008 Health Quality Award from the National Committee for Quality Assurance.



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