

**OCEAN ACIDIFICATION SCIENCE SYMPOSIUM**

**Center for Urban Horticulture, Seattle, WA**

**26 June 2015**

**08:00 Arrival and Refreshments**

**08:30 Welcome and Introduction to Symposium:** *WOAC Co-directors Terrie Klinger and Jan Newton*

**08:45 Opening Remarks:** *Dean Lisa Graumlich, College of the Environment, University of Washington*

**09:00-10:20 Session 1: Biological Responses to Ocean Acidification**

Response of copepods and krill to ocean acidification, *Julie Keister, UW*

The effects of ocean acidification on microbial food webs, *Brady Olson, WWU*

Vulnerability of Dungeness crab to ocean acidification, *Paul McElhany, NOAA*

Transgenerational effects of ocean acidification in bivalves: response to elevated CO<sub>2</sub> and hypoxia,  
*Carolyn Friedman, UW*

**10:20-10:45 Refreshment break**

**10:45-12:20 Session 2: Studies of Shellfish and Nearshore Systems**

What carbonate chemistry parameters matter to bivalve larvae, and why? *Iria Gimenez, George Waldbusser, OSU*

Willapa Bay oysters: chemical retrospective, *Burke Hales, OSU*

Advances in industry monitoring and adaptation, *Benoit Eudeline, Taylor Shellfish; Andy Suhrbier, Pacific Shellfish Institute*

Eelgrass drives pH in shallow embayments of Washington State, *Cinde Donoghue, Micah Horwith, Washington Department of Natural Resources; Brooke Love, WWU*

Monitoring of intertidal ocean acidification on the open coast of Washington, *Steve Fradkin, Olympic National Park*

**12:20-13:20 Lunch break**

**13:20-14:55 Session 3: Observations: Ocean Acidification and Biological Response**

The anthropogenic carbon signal off the Pacific Northwest coast, *Richard Feely, NOAA*

Observations of pH and pCO<sub>2</sub> from Washington moorings, *John Mickett, UW; Adrienne Sutton, NOAA*

Seasonal ocean acidification dynamics in Puget Sound, *Simone Alin, NOAA; Beth Curry, UW*

Plankton monitoring in Washington waters, *Evelyn Lessard, Julie Keister, Nina Bednarsek, UW*

Biogeochemical sensor network in the Columbia River estuary, *Joseph Needoba, OHSU*

**14:55 - 15:20 Refreshment break**

#### **15:20 – 16:25 Session 4: Advances in Modeling Ocean Acidification**

LiveOcean: a daily forecast model of ocean acidification properties for Washington coastal waters,  
*Parker MacCready, UW*

Modeling ocean acidification and hypoxia in Washington waters, *Samantha Siedlecki, UW*

Salish Sea acidification model: Relative influences of regional sources (water and air) and the Pacific  
Ocean on pH and aragonite saturation, *Mindy Roberts, WA Ecology; Tarang Khangaonkar, PNNL*

#### **16:20 to 17:00: Bringing it all together and moving forward**

**Vision:** *Jay Manning, Cascadia Law Group and former Co-chair Washington OA Blue Ribbon Panel;*  
*Robert Duff, Senior Policy Advisor, Natural Resources and Environment, Governor's Policy Office, State*  
*of Washington*

**Path forward, synergies, action items:** *WOAC Co-directors*

#### **17:00-18:00 Social mixer, posters, networking**

##### **Poster contributions**

The role of ocean warming and acidification in weakening mussel attachment, *Laura Newcomb, UW*

Pteropod responses in the corrosive waters along the US West Coast, *Nina Bednarsek, UW*

Shell dissolution of the pteropod *L. helicina* in the Puget Sound, *Jessamyn Johnson, UW*

Ecology's long-term pH data record of Puget Sound, 1990-2014: Quality assured and seasonal and  
spatial patterns explored, *Julia Bos, Skip Albertson, Christopher Krembs, Ecology*

Biases in the seasonal forecast for the Pacific Northwest: Lessons from J-SCOPE, *Tam Nguyen, UW*

Ocean acidification data analysis in the chemistry classroom, *Hilary Palevsky, UW*

NOAA Ocean Acidification Program: A comprehensive, national approach to addressing ocean  
acidification research, monitoring, and engagement, *Shallin Busch, NOAA*

##### **In absentia contributions**

Multiplying Washington's pH observations using estimates of total alkalinity, *Andrea Fassbender, UW*

Ocean acidification and respiration measurements in the Central Salish Sea, *Jude Apple, NERRS/WA*  
*Ecology (former WWU)*

*Thanks for attending!*

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