



**WASHINGTON OCEAN ACIDIFICATION CENTER
2025 OCEAN ACIDIFICATION SCIENCE SYMPOSIUM
UW Center for Urban Horticulture, Seattle, WA
28 May 2025**

08:00 **Arrival and Coffee/Tea**

08:30 - **Welcome and Introduction to Symposium:** WOAC Co-directors Terrie Klinger and Jan Newton
 - **Group Introductions:** All (*please state name and affiliation only*)
 - **Setting the Stage - Voices from the Past:** short video from 2008 (*Richard Feely, NOAA PMEL*)

Session 1: Ocean Acidification Field Observations

9:00-9:15 1. *Richard Feely (NOAA PMEL)* - Acidification of the Global Surface Ocean: What We Have Learned from Observations and Models

9:15-9:30 2. *Simone Alin (NOAA PMEL)* - Ocean Acidification in the Salish Sea: What We Have Learned from a Decade of Seasonal WOAC Cruises

9:30-9:45 3. *Adrienne Sutton (NOAA PMEL)* - Indicators of Seasonal Exposure to Ocean Acidification Conditions in Marine Protected Areas of the U.S. West Coast

9:45-10:10 ***Session 1 Discussion (25 min)***

10:10-10:30 Refreshment break and posters (20 min)

Session 2: Advances in Assessing Ocean Acidification and Biological Response

10:30-10:45 1. *Parker MacCready (UW Ocean)* - Simulating Carbonate Chemistry in the Salish Sea and PNW Coastal Waters using the LiveOcean Model

10:45-11:00 2. *Kate Hewett (UW Ocean & WOAC)* - Patterns in Corrosive Water Across the Washington and Oregon Shelf

11:00-11:15 3. *Samantha Siedlecki (U Conn)* - Drivers of Long-Term Trends (1998–2022) in Multiple Stressors and Updated Climate Projections for the Northern California Current System

11:15-11:40 ***Session 2 Discussion (25 min)***

11:40-12:00 Poster briefs (2 min each) 5-6 posters

12:00-13:00 Lunch break and posters (buffet lunch provided) (60 min)

Session 3: Biological Responses to Ocean Acidification I

- 13:05-13:20 1. *Ali Chase (UW APL)* - Trends in Puget Sound Phytoplankton Communities Over the Past Decade
- 13:20-13:35 2. *Haila Schultz (UW Ocean)* - WOAC Mesozooplankton
- 13:35-13:50 3. *Amelia Ritger (UCSB)* - Spatial and Temporal Variation in Razor Clam Shell Integrity: Is OA the culprit?
- 13:50-14:05 4. *Craig Norrie (UW SAFS)* - Impact of Multiple Stressors on the Relative Performance of Diploid and Triploid Pacific Oysters
- 14:05-14:30 **Session 3 Discussion (25 min)**

14:30-15:00 Refreshment break and posters (30 min)

Session 4: Biological Responses to Ocean Acidification II

- 15:00-15:15 1. *Paul McElhany (NOAA NWFSC)* - Dungeness Crab Zoea Sensitivity to OA: Local Adaptation, Maternal Effects, and Carbonate System Parameters
- 15:15-15:30 2. *Brooke Love (WWU)* - Proteomics as a Tool to Understand OA Response of Dungeness Zoea
- 15:30-15:45 3. *Emma Timmins-Schiffman (UW Genome Sciences)* - Mysteries of Maternal Effects: Ocean Acidification Resilience Across a Generation
- 15:45-16:00 4. *Ed Dever (OSU)* - Ten Years of Marine Carbonate System Measurements off Oregon and Washington (virtual)
- 16:00-16:25 **Session 4 Discussion (25 min)**
- 16:25-16:30 Closing Remarks: WOAC Co-directors**
- 16:30 Adjourn**

Poster Titles:

Madison Gard (UW SMEA) - *Alexandrium catenella* in Puget Sound

Rosie Gradoville (CRITFC) - New High-Resolution pCO₂/TCO₂ Observations Complement Long-Term Hypoxia Monitoring in the Lower Columbia River Estuary

Deja Jackson (NOAA PMEL) - *Ship Happens: Research Vessel Exhaust Impact on Ocean Acidification Research*

KyungJae Lee (UW Ocean) - Spatial Variations in pCO₂ in the Tropical Western Pacific near Guam

Sydney Moffett (UW) - Climate Adaptation Plans for Puget Sound

Julia Lara Navarrete (U Conn) - Will There be Crab for Christmas? Forecasting Dungeness Crab (*Metacarcinus magister*) Meat Quality

Thanks for attending!

Please find us at <https://oceanacidification.uw.edu/>