

WASHINGTON OCEAN ACIDIFICATION CENTER 2023 OCEAN ACIDIFICATION SCIENCE SYMPOSIUM

Wisteria Hall, UW Arboretum, Seattle, WA 23 May 2023

08:00 Arriv	val and	Coffee	/Tea
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08:30 Welcome and Introduction to Symposium: WOAC Co-directors Terrie Klinger and Jan Newton **Group Introductions:** All (name and affiliation only)

Session 1: Ocean Acidification Field Observations

9:00-9:15	Richard Feely (NOAA PMEL) - How anthropogenic carbon dioxide uptake and respiration reduce habitat suitability for marine calcifiers along the West Coast of North America
9:15-9:40	Simone Alin (NOAA PMEL) - What observations on Washington's outer coast and Salish Sea are teaching us about ocean acidification change through time
9:40-9:55	Micah Horwith (WA Ecology) - Larval timing and seasonality in acidification conditions
9:55-10:20	Session 1 Discussion (25 min)
10:20-10:40	Refreshment break and posters (20 min)

Session 2: Advances in Assessing Ocean Acidification and Biological Response

10:40-10:55	John Sharp (CICOES/PMEL) - Observation-based mapping of OA in the Pacific Northwest and other US Large Marine Ecosystems
10:55-11:10	Parker MacCready (UW Ocean) - New improvements in the LiveOcean modeling system
11:10-11:25	Jan Newton (UW APL/Ocean/SMEA) - A regional vulnerability assessment to ocean acidification for the Olympic Coast
11:25-11:45	Session 2 Discussion (20 min)
11:45-12:00	Poster briefs (2 min each)

12:00-12:50 Lunch break and posters (buffet lunch provided) (50 min)

Session 3: Biological Responses to Ocean Acidification I

12:50-13:05	Alexis Fischer (UCAR) - Drivers of Pseudo-nitzschia spp. abundance and toxicity in the Northern California Current System		
13:05-13:20	William Cochlan (SFSU) - Variable impacts of ocean acidification on the growth and toxigenicity of two <i>Pseudo-nitzschia</i> species from the California Current Upwelling System		
13:20-13:35	Shallin Busch (NOAA NWFSC) - Response of adult krill to global change		
13:35-13:50	Haila Schultz (UW Ocean) - Mesozooplankton composition and distribution from WOAC cruises 2014-2022		
13:50-14:15	Session 3 Discussion (25 min)		
14:15-14:40	Refreshment break and posters (25 min)		
Session 4: Biological Responses to Ocean Acidification II			
14:40-14:55	Paul McElhany (NOAA NWFSC) - Dungeness Crab in an acidifying ocean: experiments, models, and real-world uncertainty		
14:55-15:10	Craig Norrie (UW SAFS) - Shellfish stress & chromosome copies: Responses of diploid and triploid Crassostrea gigas to climate change stressors		
15:10-15:25	Brooke Love (WWU) - The embryos of Pacific herring are resilient to combined acidification and acute warming - but there are limits		
15:25-15:40	Terrie Klinger (UW SMEA) - Biological sensitivities to high-resolution climate change projections in the California Current marine ecosystem		
15:40-16:05	Session 4 Discussion (25 min)		
Session 5: Looking Forward			
16:05-16:20	Liz Perotti (NOAA OAP) - Priorities, investment, and capacity building in the region - what are our next steps?		
16:20-16:35	Brad Warren (Global Ocean Health) - mCDR: Opportunities & challenges for the OA community		
16:35-16:55	Session 4 Discussion (20 min)		
16:55-17:00	Closing Remarks: WOAC Co-directors		
17:00	Adjourn		

Ali Chase (UW APL) - Phytoplankton in Puget Sound during 2014-2019: HAB species and OA parameters

Maya Garber-Yonts (UW SMEA) - Using time-series eDNA to evaluate harmful algal taxon in Puget Sound

Miranda Roethler (UW SAFS) - Effects of ocean warming and acidification on bull kelp photophysiology

Mary Margaret Stoll (UW Ocean) - A century of change in the California Current: Quantifying the impact of anthropogenic climate change on ocean chemistry

Kate Hewett (UW Ocean) - Hypoxic and corrosive volumes on the shelf in the Northern California Current System

Amelia Ritger (UC Santa Barbara/OCNMS/ONP) - Developing low-cost, simplified, and open source Durafet-based pH instrument electronics

Thanks for attending!

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