



Schedule at a Glance

* subject to change. Room assignments will be provided closer to the conference date.

Monday, Sept 18

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| 8:30 a.m. | Golf Tournament - Gearhart Golf Links (www.gearhartgolflinks.com) |
| 9:00 a.m. | Pickleball Tournament - Sunset Empire Park and Recreation District (1140 Broadway St, Seaside, OR 97138) |
| 1:00 p.m. Riverside A & B | PCSGA Board Meeting |
| 4:00 p.m. | BREAK |
| 4:30 p.m. Riverside A & B | PCSGA Annual General Member Meeting |

Tues, Sept 19

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| 9:00 a.m. Pacific Room | Welcome |
| 9:15 a.m. Pacific Room | John Lentz Featured Speaker: Aquaculture Apprenticeship Program Carissa Maurin (Gulf of Maine Research Institute) |
| 10:30 a.m. | BREAK |
| 11:00a a.m. Pacific Room | Working Toward Social License to Operate Emily Whitmore (Maine Aquaculture Innovation Center) |
| 12:00 p.m. Pacific Room | OPENING LUNCHEON Featuring a special presentation by the authors of 'Heaven on the Half Shell' |

Session 1 -Riverside B

Session 2 - Necanicum East and West

Session 3 - Riverside A

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| 2:00 p.m. | Ocean Conditions | Response of eastern oysters (<i>Crassostrea virginica</i>) and soft shell clams (<i>Mya arenaria</i>) repeated hypoxia during heatwaves Jasmine Talevi* (Dalhousie University) , Shelby Clarke, Michael Coffin, Luc Comeau, Takashi Sakamaki and Ramon Filgueira | 2:00 p.m. | Social License Workshop | Social License Workshop Moderated by Emily Whitmore and Anne Langston (Maine Aquaculture Innivation Center) | 2:00 p.m. | Genetics, Genomics, and Broodstock | Genetic Variation in Growth of Pacific Oysters is Primarily Non-Additive Dennis Hedgecock (University of Southern California) , Xiaoshen Yin |
| 2:15 p.m. | | Exploring adaptation and plasticity to ocean warming in blue mussels (<i>Mytilus edulis</i>) from Atlantic Canada Shelby B. Clarke* (Dalhousie University) , Tiago Hori, Luc Comeau, and Ramon Filgueira | 2:15 p.m. | | | 2:15 p.m. | | Development of an Alternative Sterility Method for Shellfish Aquaculture: Identification of Candidate Genes Involved in Germ Cell Specification Mackenzie Gavry (NOAA Fisheries - NW Fisheries Science Center) , Lauren Saunders, Lauren Vandepas, Brent Vadopalas, Adam Luckenbach, Cole Trapnell, Steven Roberts |
| 2:30 p.m. | | Examining the impacts of elevated, variable pCO2 on larval Pacific razor clams (<i>Siliqua patula</i>) in Alaska Marina Alcantar* (University of Alaska Fairbanks) , Jeff Hetrick, Jacqueline Ramsay, and Amanda Kelley | 2:30 p.m. | | | 2:30 p.m. | | Shellfish stress and chromosome copies: performance of diploid and triploid oysters under temperature, pH, and dissolved oxygen stress Craig Norrie (University of Washington) |
| 2:45 p.m. | | Environmental Priming for Ocean Acidification: Potential hatchery practices to build resilience for clam aquaculture in the Puget Sound Larken Root (Univeristy of Washington/NOAA) , Mackenzie Gavry, Ryan Crim | 2:45 p.m. | | | 2:45 p.m. | | Sex determination in Pacific oysters (<i>Crassostrea gigas</i>): Translating basic science into more efficient oyster production Bernarda Calla (USDA-ARS) , Neil Thompson |

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| 3:15 p.m. | Ocean Conditions | Potential of the macroalgae dulse (<i>Devaleraea mollis</i>) to mitigate effects of ocean acidification on larval Pacific oysters (<i>Magallana gigas</i>) in land-based co-culture Leah Wessler* (University of British Columbia) , Dr. Andrea Frommel, Dr. Jennifer Clark | 3:15 p.m. | Social Media workshop | Social Media workshop Moderated by Cora Hirashiki (Fat Moon Creative) | 3:15 p.m. | Genetics, Genomics, and Broodstock | Coupling in vitro challenge and transcriptomics to investigate mechanisms of eastern oyster apoptotic response to the intracellular parasite <i>Perkinsus marinus</i> Erin M. Witkop (University of Rhode Island) , Dina P. Proestou, Gary Wikfors, Kathryn Markey-Lundgren, Mary Sullivan, Marta Gomez-Chiarri. |
| 3:30 p.m. | | Recovery from an atmospheric heatwave in Midori and Miyagi strains of the Pacific oyster Hollis Jones* (University of California, Davis) , Cassidy Cooper, Anne Todgham | 3:30 p.m. | | | 3:30 p.m. | | Experimental assesment of POGS YC2023 to OsHV-1 microvar Neil Thompson (USDA- Pacific Shellfish Research Unit) , Marni Rem-McGeachy, Will Schoeneck, Darren DeSilva, Nasif Sarowar |
| 3:45 p.m. | | Triploid Pacific oysters exhibit stress response dysregulation and elevated mortality following heatwaves Matthew George (University of Washington) , Olivia Cattau, Mollie A. Middleton, Delaney Lawson, Brent Vadopalas, Mackenzie Gavry, Steven Roberts | 3:45 p.m. | | | 3:45 p.m. | | Center for Aquaculture Technology Canada (CATC) developed OsHV challenge model to assess family resistance in controlled laboratory condition. Nasif Sarowar (The Center for Aquaculture Technologies) |
| 4:00 p.m. | | Environmental effects on biological characteristics of Pacific oyster <i>Crassostrea gigas</i> cultured in the Seto Inland Sea, Japan, from 1990 to 2022 Yumeng Pang (University of Washington) , Tsuneo Ono, Takehiro Tanaka | 4:00 p.m. | | | 4:00 p.m. | | |

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| 4:30 p.m. | Tradeshow Reception and NSA Fundraiser |
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Wed, Sept 20

| Session 1 - Riverside A | | | | Session 2 - Riverside B | | | Session 3 - Pacific Room | | |
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| 8:30 a.m. | | | | 8:30 a.m. | | | | | |
| 8:45 a.m. | Policy and Permitting | NAHMS: A trusted data oyster with a clam-like formula and statistical mussel helping to meet information needs! Diana Short (USDA APHIS VS NAHMS) | 8:45 a.m. | ECOP Feedback Session | Environmental Codes of Pracitce (ECOP) Revision Update and Feedback Session Kim Thompson (Pacific Coast Shellfish Growers Association) , Samantha Klein, Bobbi Hudson | | | | |
| 9:00 a.m. | | A Report on Work By NOAA Fisheries and Partners to Assess and Enhance The Permitting and Regulatory Landscape in Washington State Jeff Bash (NOAA Fisheries) | 9:00 a.m. | Conservation and Restoration | A population health approach to monitoring oyster disease in Long Island Sound in support of regional restoration and harvest goals Meghana P. Parikh (NOAA Fisheries Northeast Fisheries Science Center) , Mariah L. Kachmar, Stephen Arnott, and Katherine McFarland | 9:00 a.m. | USDA Pacific Shellfish Research Unit Engagement Session - POGS Breeding Program Update and Listening Session | USDA Pacific Shellfish Research Unit Engagement Session - POGS Breeding Program Update and Listening Session USDA-ARS Pacific Shellfish Research Unit | |
| 9:15 a.m. | | ELAP: Oppurtunities and Challenges from a National Perspective Charlie Culpepper (National Aquaculture Association) | 9:15 a.m. | | Determination of gonad reproductive state using non-lethal ultrasonography in endangered black (Haliotis cracherodii) and white abalone (H. sorenseni) Sara E. Boles (Bodega Marine Laboratory, University of California, Davis) , Laura Rogers-Bennett, Wendy K. Bragg, Jessica Bredvik-Curran, Suzanne Graham, & Jackson A. Gross | 9:15 a.m. | | | |
| 9:30 a.m. | | Shellfish Farming and the Endangered Species Act Amanda M. Carr (Plauché & Carr LLP) | 9:30 a.m. | | Integrating aquaculture to improve Olympia oyster restoration in the Elkhorn Slough, CA Jacob Harris* (Moss Landing Marine Laboratories, San Jose State University) , Luke Gardner, Amanda Kahn, Kerstin Wasson | 9:30 a.m. | | | |
| 9:45 a.m. | | Legal Issues Impacting Shellfish Samuel W. (Billy) Plauché (Plauché & Carr LLP) | 9:45 a.m. | | Every Breath You Take: Siphon Visibility Of Puget Sound Wild Geoducks Henry S. Carson(WA Dept. of Fish and Wildlife) Bethany C. Stevick and Ocean Working | 9:45 a.m. | | | |
| 10:00 a.m. | | Communicating information on ecosystem services provided by shellfish aquaculture into the aquaculture permitting and review process. Chris Schillaci (NOAA Fisheries) | 10:00 a.m. | | A Novel Social-Ecological Clam Garden Site Selection Process Joe Williams (Swinomish Indian Tribal Community) , Courtney M. Greiner, Julie S. Barber, Jamie Donatuto, Melissa Poe, James McArdle, Lindy Hunter, Michal Heidt | 10:00 a.m. | | | |
| 10:15 a.m. | | | 10:15 a.m. | Baskets of cockles in fields of geoduck: Assessing Clinocardium nuttallii abundance in geoduck farms across Puget Sound Ryan Crim (Puget Sound Restoration Fund) , Emily Buckner, Elizabeth Unsell, Darbhi Durvasula, Hannah Garfield, Jodie Toft | 10:15 a.m. | | | | |
| 10:30 a.m. | BREAK | | | | | | | | |
| Session 1 - Riverside A | | | | Session 2 - Riverside B | | | Session 3 - Pacific Room | | |
| 11:00 a.m. | | | | 11:00 a.m. | Conservation and Restoration | Watching from Above – Monitoring Eelgrass Habitats in Humboldt, Samish, and Willapa Bays Phil Bloch(Confluence Environmental Company) , Kelly McDonald, Whelan Gilkerson and Bobbi Hudson | 11:00 a.m. | Workshop: Strengthening Research Support for Shellfish Health Management - OsHV-1 and The West Coast Shellfish Industry | Workshop: Strengthening Research Support for Shellfish Health Management - OsHV-1 and The West Coast Shellfish Industry NOAA Fisheries Northeast Fisheries Science Center and CA Department of Public Health |
| 11:15 a.m. | Policy/Permitting | Washington State Department of Health Commercial Shellfish Enforcement Program Overview Dani Toepelt, R.S. (WA Dept. of Health) | 11:15 a.m. | Recovery mechanisms of eelgrass (Zostera marina) following dredging disturbance Fiona Boardman* (University of Washington) , Elena Subbotin, Jennifer Ruesink | | 11:15 a.m. | | | |
| 11:30 a.m. | | An electronic aquaculture production data system for Washington Chris Eardley (WA Dept. of Fish and Wildlife) , Bobbi Hudson, Dani Toepelt, David Beugli, Laura Butler, Kim Thompson, Kevin Decker | 11:30 a.m. | Nekton Use of Seagrass (Zostera Marina) Habitat on Oyster Flip-bag Farms Katie Houle (Pacific Shellfish Institute) , Kalloway Page, Fiona Boardman, Jennifer Ruesink | | 11:30 a.m. | | | |
| 11:45 a.m. | | Public Engagement Toolkit Kim Thompson (Pacific Coast Shellfish Growers Association) | 11:45 a.m. | Can coralline algae habitat bolster the climate resilience of Washington's endangered pinto abalone? Eileen Bates* (University of Washington) , Josh Bouma, Ryan Crim, Jodie Toft, Jacqueline Padilla-Gamino | | 11:45 a.m. | | | |
| 12:00 p.m. | Policy/Permitting | Shellfish Farm Permitting Toolbox Kelly McDonald (Confluence Environmental Company) , Marlene Meaders, Jesse DeNike, Samantha Klein | 12:00 p.m. | Lightning Talks | WDFW's Safeguard Our Shellfish Campaign Nam Siu (WA Dept. of Fish and Wildlife) , Katy Davis , Matt Hoehn, Chris Eardley; An update on West Coast Shellfish Biosecurity Workshop Series Chris Eardley (WA Dept. of Fish and Wildlife) , Chris Langdon, Maria Haws; Effect of Biofouling and Stocking Density on Microclimate in off-Bottom Oyster Culture Grow-Out Bags Julianne Grenn* (Virginia Institute of Marine Science) and William Walton | 12:00 p.m. | Outreach and Education | An oyster farm in your living room: Distant, Immersive, Virtual Education for Agriculture (DIVE4Ag) Ford Evans (Oregon State University) | |
| 12:15 p.m. | | | 12:15 p.m. | | Is water temperature a critical factor dictating OsHV-1 SD Bay uvar infection and mortality rates in Pacific oysters? Emily Kunselman* (Scripps Institution of Oceanography) , Daysi Manrique, Zachary Daniel, Colleen Burge, Sarah Allard, Jack Gilbert; Enhancing access to ocean data and information products from the Central and Northern California Ocean Observing System (CeNCOOS) to support well-informed shellfishery management Marine Lebrech (Monterey Bay Aquarium Research Institute) , Alex Harper | 12:15 p.m. | | | |
| 12:30 p.m. LUNCH BREAK/NSA LUNCHEON | | | | | | | | | |
| Session 1 - Necanicum East | | | | Session 2 - Riverside B | | | Session 3 - Riverside C | | |

