



**OCEANS & HUMAN
HEALTH INITIATIVE**

Principal Investigators Meeting

**October 6 - 8, 2009
Renaissance Seattle Hotel**

Meeting Goals

- **Foster scientific exchange and communication; and identify opportunities to enhance collaboration, integration and coordination across OHHI projects, investigators and partners**
- **Advance discussions on developing, delivering and communicating OHH-related products and services as they relate to OHHI's goals**
- **Introduce and engage the OHHI Consortium for Graduate Trainees into the OHH Community**

Monday, October 5th

9:00 AM – 7:00 PM: Traineeship and Graduate Student Seminar & Reception *REGISTERED PARTICIPANTS ONLY*****

7:00 PM – 9:00 PM: ALL PI's Meeting Check-In (Courtyard Ballroom B-Level)

- Check-In and bring presentations/posters on a data key or CD to download to master, and posters to display. Staff will be available to answer any technical or logistical questions or concerns.

Tuesday, October 6th

8:00 AM – 8:30 AM: Morning Refreshments (Courtyard Ballroom B-Level) & Registration Continued (East Ballroom 3rd Floor)

8:30 AM – 10:50 AM: Opening Plenary: OHHI 2009 Strategic Planning and Beyond (East Ballroom 3rd Floor)

- **8:30 – 8:45 AM: Welcome and Meeting Overview: NOAA's OHHI Director, Juli Trtanj and Local Host NOAA's West Coast Center for Oceans and Human Health's Director, Dr. Usha Varanasi**
- **8:45 – 9:30 AM: NOAA's OHHI Programmatic Updates and Interagency Efforts**
- **9:30 – 10:00 AM: OHHI Traineeships Overview**
 - Pacific Northwest Consortium for Pre and Post-doctoral Traineeships in Oceans and Human Health – Ginger Armbrust
 - Georgia OHHI Graduate Training Consortium – Erin Lipp
 - Training Tomorrow's Ecosystem and Public Health Leaders –Jonna Mazet
 - Interdisciplinary Research and Training Initiative on Coastal Ecosystems and Human Health (I-RICH) – J. Evan Ward
 - HML Consortium for Research Training in OHH – Eric Lacy

- **10:00 – 10:15 AM: OHH from the National Ocean Service Perspective, Debbie Larson**
- **10:15 – 10:35 AM: NSF-NIEHS Centers for OHH Overviews**
 - Pacific Northwest Center for Human Health and Ocean Studies: University of Washington – Elaine Faustman
 - Pacific Research Center for Marine Biomedicine: University of Hawaii – Ed Laws
 - Woods Hole Center for Oceans and Human Health – Rebecca Gast
 - Oceans and Human Health Center: University of Miami – Lora Fleming
- **10:35 – 11:00 AM: Open Forum: Q + A**

11:00 AM – 11:20 AM: Coffee Break (Courtyard Ballroom B-Level)

11:20 – 11:30 AM: Introduction to Goal 1: Early Warning Systems (East Ballroom 3rd Floor)

11:30 – 12:15 PM: Early Warning Systems: Seafood Safety (*See List of Acronyms for Affiliations) (East Ballroom 3rd Floor)**

- 11:30 – 11:45 AM: Nowcasting to Forecasting the Pathogenic *Vibrios*: **Jay Grimes**, University of Southern Mississippi & OHHI External Grantee
- 11:45 – 12:00 PM: Ecology and population structure analysis of *Vibrio parahaemolyticus* in the U. S. Pacific Northwest: Inferences for Early Warning System Development **Mark Strom**, WCCOHH
- 12:00 – 12:15 PM: Ecology and Virulence of Two *Vibrio vulnificus* Genotypes: **James D. Oliver**, University of North Carolina at Charlotte & OHHI External Grantee

12:15 – 1:30 PM Lunch (Courtyard Ballroom B-Level)

1:30 – 3:15 PM: Early Warning Systems: Seafood Safety (East Ballroom 3rd Floor)

- 1:30 – 1:45 PM: Seafood Safety: Lessons Learned and Challenges Ahead: **Elaine Faustman**, NSF-NIESH COHH – Pacific Northwest Center for Human Health and Ocean Studies, University of Washington
- 1:45 – 2:00 PM: Seafood and its Hidden Parasites: **Robin M. Overstreet**, University of Southern Mississippi & OHHI External Grantee
- 2:00 – 2:15 PM: PBDEs in Puget Sound Chinook Salmon and In-Utero Risk from Dietary Exposures During Pregnancy: **Evan Gallager**, University of Washington & OHHI External Grantee
- 2:15 – 2:30 PM: Marine Aggregates Facilitate the Ingestion of Manufactured Nanoparticles by Suspension-Feeding Shellfish: **Evan Ward**, University of Connecticut & OHHI Traineeship Program
- 2:30 – 2:45 PM: Sentinel" Ocean Regions and Mechanistic Models for Climate Influences on Human Health: **Mercedes Pascual**, University of Michigan & OHHI External Grantee
- 2:45 – 3:00 PM: Past Trends and Future Scenarios for Weather and Climate Conditions Favoring Harmful Algal Blooms in Puget Sound: **Stephanie Moore**, WCCOHH
- 3:00 – 3:15 PM: Genomic Approaches to Florida Red Tides: Harnessing Processes Regulating Toxicity and Bloom Termination for Prediction and Mitigation of Health Impacts: **Frances Van Dolah**, COHHHML & NOAA Coastal Environmental Health and Biomolecular Research Lab

3:15 – 3:45 PM: Coffee Break (Courtyard Ballroom B-Level)

3:45 – 5:00 PM: Early Warning Systems: Seafood Safety (East Ballroom 3rd Floor)

- 3:45 – 4:00 PM: Oceanography and HABs on the Open Washington Coast: HABs Initiation Sites and Transport to Coastal Beaches: **Barbara Hickey**, NSF-NIESH COHH – Pacific Northwest Center for Human Health and Ocean Studies, University of Washington
- 4:15 – 4:30 PM: Forecasting Harmful Algal Blooms in the Pacific Northwest: **Vera Trainer**, WCCOHH
- 4:30 – 4:45 PM: Surface Plasmon Resonance (SPR)-based Detection of Algal Toxins in Real Time: **Clement E. Furlong** NSF-NIESH COHH – Pacific Northwest Center for Human Health and Ocean Studies, University of Washington
- 4:45 – 5:00 PM: TBD

6:30 – 9:00 PM: Poster Reception and Group Reception (Courtyard Ballroom B-Level) (heavy hors d'oeuvres)

- **6:30 – 7:30: Traineeships and Grants**
- **7:30 – 8:30: Centers and Scholars**

Wednesday, October 7th

8:00 AM – 8:30 AM: Morning Refreshments (Courtyard Ballroom B-Level)

8:30 – 8:45 AM: NOAA Science Advisory Board Ocean Health Working Group Overview: Dr. Stephen Weisberg, Southern California Coastal Water Research Project (East Ballroom 3rd Floor)

8:45 AM – 10:15 AM: Expert Panel: Making the Public Health and Ocean Health Connection (East Ballroom 3rd Floor)

- Dr. Mike McGeehin, Centers for Disease Control and Preventions, National Center for Environmental Health;
- Dr. Angelo Depaola, Food and Drug Administration (FDA), Department of Health and Human Services ;
- Mr. David Rockwell, Center of Excellence for Great Lakes and Human Health & Cooperative Institute for Limnology and Ecosystems Research - University of Michigan
- Dr. Frank Cox, Washington Department of Health

10:15 AM - 10:30 AM: Coffee Break (Courtyard Ballroom B-Level)

10:30 AM – 12:15 PM: Early Warning Systems: Beach Management and Drinking Water Safety* (East Ballroom 3rd Floor)**

- 10:30 – 10:45 AM: Nearshore Hydrodynamic Modeling in the Great Lakes: **David Schwab**, CEGLHH
- 10:45 – 11:00 AM: Field Observations and Numerical Modeling of Bacteria in Plumes: **Philip Roberts**, Georgia Tech & Distinguished Scholar
- 11:00 – 11:15 AM: Modeling the Fate and Transport of Indicator Bacteria at a Southern Lake Michigan Beach: **Mantha S. Phanikumar**, Michigan State University & CEGLHH
- 11:15 – 11:30 AM: Predicting Pathogen Fate in the Great Lakes Environment: **Sandra McLellan** - Great Lakes WATER Institute & OHHI External Grantee
- 11:30 – 11:45 AM: Development of an Experimental HAB Bulletin for Lake Erie: **Gary Fahnenstiel**, CEGLHH

- 11:45 – 12:00 PM: Evaluation of the Hazard of Microcystis /Blooms for Human Health Through Fish Consumption: **Juli Dyble Bressie**, CEGLHH
- 12:00 – 12:15 PM: Forecasting Beach Closings and Conditions in the Great Lakes: **Cynthia Sellinger**, Collaborator with CEGLHH

12:15 PM – 1:30 PM Lunch (Courtyard Ballroom B-Level)

1:30 PM – 2:30 PM: Early Warning Systems: Beach Management and Drinking Water Safety (East Ballroom 3rd Floor)

- 1:30 – 1:45 PM: Improved Detection and Quantification of Pathogens from Coastal Waters: **Jill Stewart**, University of North Carolina & COHHHML
- 1:45 – 2:00 PM: The BEACHES Study: Health Effects and Exposures from Non-point Source Microbial Contaminants in Subtropical Recreational Marine Waters: **Lora Fleming**, NSF NIEHS Oceans and Human Health Center, Rosenstiel School and School of Medicine, University of Miami
- 2:00 – 2:15 PM: The BEACHES Study: Comparisons Between Traditional and Molecular Assays for Fecal Indicator Bacteria and Their Association to Health Effects at a Subtropical Recreational Beach: **Christopher D. Sinigalliano** NOAA Atlantic Oceanographic and Meteorological Laboratory & NSF NIEHS Oceans and Human Health Center, Rosenstiel School, University of Miami
- 2:15 – 2:30 PM: Indicators and non-indicators of water quality at recreational beaches in Hawaii: **Ed Laws**, NSF-NIEHS COHH – Pacific Research Center for Marine Biomedicine: University of Hawaii

2:30 – 3:30 PM: Early Warning Systems: Sentinel Species and Habitats* (East Ballroom 3rd Floor)**

- 2:30 – 2:45 PM: Sentinel Species Concepts and NOAA's OHHI: **Tracy Collier**, WCCOHH
- 2:45 – 3:00 PM: Tidal Creek Ecosystems: Sentinel Habitats for Assessing the Consequences of Rapid Development on Ecological and Human Well-being: **Denise M. Sanger**, SC Sea Grant Consortium and NOS
- 3:00 – 3:15 PM: Ecosystem, Dolphin and Human Health: Understanding Linkages Along the Georgia Coast: **Lori Schwacke**, COHHHML
- 3:15 – 3:30 PM: The Impact of Different Classes of PCBs on Marine Mammal and Human Health: A New Assessment of Immunotoxicity: **Sylvain De Guise**, University of Connecticut & OHHI External Grantee

3:45 PM: Meet in Lobby to Bus to West Coast Center for OHH (WCCOHH) at the NOAA Northwest Fisheries Science Center (NWFSC)

4:15 PM – 5:45 PM: Tour of WCCOHH

6:00 PM: Depart WCCOHH for Dinner Cruise

7:00 PM – 9:30 PM: Argosy Dinner Cruise on Puget Sound

Thursday, October 8th

8:00 AM – 8:30 AM: Morning Refreshments (Courtyard Ballroom B-Level)

8:30 AM – 9:00 AM: Plenary: Injecting Ocean and Health Science into Climate Change Policy: Dr. Kris Ebi, Executive Director of the Technical Support Unit for the Intergovernmental Panel on Climate Change (IPCC) (East Ballroom 3rd Floor)

9:00 AM – 10:30 AM: Early Warning Systems: Sentinel Species and Habitats (East Ballroom 3rd Floor)

- 9:00 – 9:15 AM: Antibiotic Resistant Bacteria in Stranded, Bycaught and Live Marine Animals: **Rebecca Gast**, OHHI External Grantee (Moore –PI) & NSF-NIEHS Woods Hole Center for OHH
- 9:15 – 9:30 AM: Victims or Vectors: A Survey of Marine Vertebrate Zoonoses from Coastal Waters of the Northwest Atlantic: **Andrea Bogomolni**, OHHI External Grantee (Moore –PI) & NSF-NIEHS Woods Hole Center for OHH
- 9:30 – 9:45 AM: Using MRI to Investigate the Interaction of Contaminants and Domoic Acid on Central Nervous System Damage in Rats and California Sea Lions: **Eric Montie**, University of Southern Florida, UC Davis Traineeship
- 9:45 – 10:00 AM: Marine Organisms as Disease Vectors: Multi-Stressor Effects: **Karen Burnett**, COHHHML
- 10:00 – 10:15 AM: Contaminants of Emerging Concern: Quantifying Brominated Flame Retardants in the U.S. Coastal Zone: **John Christensen**, NOAA NOS Centers for Coastal Monitoring and Assessment
- 10:15 – 10:30 AM: Estuarine Plankton Communities as Reservoirs for Enteric Microbes: **Erin Lipp**, University of Georgia & OHHI External Grantee

10:30 AM – 11:00 AM: Coffee Break (Courtyard Ballroom B-Level)

11:00 AM – 12:15 PM: Benefits from the Sea: Natural Products and Pharmaceuticals & Biomedical Models* (East Ballroom 3rd Floor)**

- 11:00 – 11:15 AM: Bridging the Barrier of Good and Evil: Novel Ocean Drugs Derived From Bioactive Metabolites Implicated in Human and Environmental Events: **Peter Moeller**, COHHHML
- 11:15 – 11:30 AM: The Beginnings of a Collaborative Deep Vent Biodiscovery Program: **Mark Zabriskie**, Oregon State University & WCCOHH Collaborator
- 11:30 – 11:45 AM: Small Fish in a Big Pond: The Power of the Zebrafish Model in Oceans and Human Health Research: **John Incardona**, WCCOHH
- 11:45 – 12:00 PM: Zebrafish as a Model: A.) Host for *Vibrio parahaemolyticus* Virulence: **Rohinee Paranjpye**, WCCOHH B.) Characterizing the Effects of Algal Toxin Exposure in the Vertebrate Central Nervous System: **Kathi Lefebvre**, WCCOHH
- 12:00 – 12:15 PM: Effects of Brevetoxin (PbTx-2) on Differential Gene Expression in PHA-Human Primary Peripheral Blood Mononuclear Cells: **Cathy J. Walsh**, Mote Marine Laboratory & OHHI External Grantee

12:15 PM – 1:30 PM: Lunch (Courtyard Ballroom B-Level)

1:30 PM – 1:45 PM: OHHI Data Management Overview and Map Server Demonstration, Steve Williams, UCAR (East Ballroom 3rd Floor)

1:45 PM – 2:00 PM: OHHI Outreach Highlights from 07-09, Carolyn Sotka, OHHI (East Ballroom 3rd Floor)

2:00 – 5:30 PM: COMPASS Media and Policymaker Communications Workshop

- 2:00 – 2:45 PM: “Bridging the World of Science, Journalism and Policy”, Matt Wright, Liz Neeley, and Emily Knight
- 2:45 – 5:30 PM: 2 Media and 1 Policymaker Hands-On Modules (Location for Breakouts to Be Announced On-Site)

5:30 PM: Closing Remarks (East Ballroom 3rd Floor)

6:00 PM: MEETING ADJOURNS – Safe Travels!

*** Acronyms for Affiliations

CEGLHH: NOAA Center of Excellence for Great Lakes and Human Health at the Great Lakes Environmental Research Lab

WCCOHH: NOAA West Coast Center for Oceans and Human Health at the Northwest Fisheries Science Center

COHHHML: Center for Oceans and Human Health at the Hollings Marine Laboratory

NSF-NIEHS COHH: Centers for Oceans and Human Health

