

# 11<sup>TH</sup> U.S. SYMPOSIUM ON HARMFUL ALGAE

## IMPACTS OF HABS ON SHELLFISH: ADDRESSING HARVESTER AND INDUSTRY NEEDS

Harmful algal bloom (HAB) scientists have often worked independently of the shellfish industry and native harvesters when researching HAB impacts on shellfish health and the social and commercial benefits of their harvest to coastal communities. A more holistic approach to mitigate the HAB-induced losses to shellfish harvest can only be addressed through greater collaboration of researchers with stakeholders. During this workshop, several speakers will provide brief vignettes describing partnerships between HAB scientists and growers/harvesters, highlighting how these partnerships were formed, the tools implemented to benefit the joint projects, and the communication strategies used to ensure that collaborations were successful. Following these presentations, a discussion among HAB scientists, industry representatives, and federal, state and tribal partners will focus on listening to the needs of harvesters and the shellfish industry to help inform future collaborative project planning. Together, we will discuss how best to initiate and sustain partnerships that effectively develop solutions to mitigate HAB impacts on aquaculture and harvest. These solutions may include training opportunities, advanced technologies, such as the imaging flow cytobot (IFCB), and enhanced monitoring using real-time mapping tools to protect the future of shellfish harvest potential in coastal regions of the U.S. This discussion will help to ensure that the development of future research programs and infrastructure are aligned with industry and native harvester needs.

### **VERA TRAINER, OCEANOGRAPHER | NOAA**

Vera Trainer is an oceanographer for NOAA in Seattle, Washington, USA. Her current research on harmful algal blooms focuses on the assessment of climatic factors that influence toxic bloom development and establishing community-based early warning systems. She enjoys national and international collaborations as a means to enhance our cultural, scientific and personal understanding of one another.

[VERA.L.TRAINER@NOAA.GOV](mailto:VERA.L.TRAINER@NOAA.GOV)

### **MARC SUDDLESON, MERHAB PROGRAM MANAGER | NOAA NCCOS**

Marc Suddleson manages the NCCOS Monitoring and Event Response for Harmful Algal Blooms (MERHAB) research program and oversees a research portfolio that builds local, regional, and national capacity for HAB monitoring and response by states, tribes and indigenous communities, regional observing associations, aquaculture operations, and the private sector. MERHAB projects develop less costly and more precise and comprehensive approaches to monitor phytoplankton cells and algal toxins and rapidly respond to HAB events.

[MARC.SUDDLESON@NOAA.GOV](mailto:MARC.SUDDLESON@NOAA.GOV)

### **TERI KING, AQUACULTURE AND MARINE WATER QUALITY SPECIALIST | WASHINGTON SEA GRANT**

Teri King is an aquaculture specialist who engages stakeholders in a variety of issues including shellfish safety and aquaculture and harmful algal bloom research and monitoring. She is the Manager for SoundToxins, a diverse partnership of aquaculture businesses, environmental learning centers, Native tribes and Puget Sound volunteers working together to minimize the human health impacts of toxic shellfish through research, early detection and monitoring.

[GUATEMAL@UW.EDU](mailto:GUATEMAL@UW.EDU)

U.S. SYMPOSIUM ON HARMFUL ALGAE