

## **Environmental Indicator Workshop Speaker Biographies**

### **Dr. Laurie Weitkamp**

Dr. Laurie Weitkamp has been a Research Fisheries Biologist at the Northwest Fisheries Science Center (NWFSC) since 1992. Her work at the NWFSC primarily consists of salmon conservation, salmon research, and salmon management. She has been involved in Endangered Species Act listings of Pacific salmon, from the scientific basis for listings to periodic status updates. Her research focuses on the ecology of salmon in estuarine and marine environments, specifically how physical conditions influence biological processes that are important for salmon survival, including the likely impacts of climate change. A starting point for this work is understanding where salmon are during all stages of ocean residence, including the poorly understood winter period. On the management side, Laurie serves on the Coho Technical Committee of the Pacific Salmon Commission. She received her B.S., M.S., and Ph.D. degrees from the University of Washington.

### **Dr. Chris Harvey**

Dr. Chris Harvey is a fishery biologist in the Ecosystem Sciences Program at the NOAA Fisheries Northwest Fisheries Science Center in Seattle, where he has been since 2002. His main research interest is the ecology of aquatic and marine food webs and how their dynamics interact with fisheries, climate variability, climate change, and other environmental drivers. Chris is also co-lead of the NOAA California Current Integrated Ecosystem Assessment team, which uses qualitative and quantitative tools to synthesize ecological, economic, and social data into tangible products that are useful for ecosystem-based management along the West Coast.

### **Dr. Nate Mantua**

Dr. Nate Mantua leads the Salmon Ecology Team at NOAA's Southwest Fisheries Science Center in Santa Cruz, California. This interdisciplinary group of scientists works to understand links between habitat and anadromous fish that spawn in California's watersheds but migrate to the ocean for growth and maturation. Nate worked at the University of Washington in Seattle from 1995-2012 where he co-directed the Climate Impacts Group. He was an Associate Professor in the University of Washington School of Aquatic and Fishery Sciences from 2006-2012. His research interests include climate variability and predictability, climate impacts on natural resources, and the use of climate information in resource management.

### **Dr. Andrea Reid**

Dr. Andrea Reid is a citizen of the Nisga'a Nation and a new Assistant Professor with the University of British Columbia's Institute for the Oceans and Fisheries. She is helping to launch and lead the Centre for Indigenous Fisheries, working to build a national and international hub for the study and protection of culturally significant fish and fisheries. Her research program adopts highly interdisciplinary and applied approaches to improving our understanding of the complex interrelationships between fish, people, and place. Reid's Ph.D. in Biology (Governor General's Gold Medal; Carleton University '20) centered on multiple stressor effects on Pacific salmon, using tools and insights from Western and Indigenous sciences in tandem. Reid is a cofounder of Riparia, a Canadian charity that connects diverse

young women with science on the water to grow the next generation of water protectors. She is also a National Geographic Explorer and a Fellow of The Explorers Club.

#### **Dr. Brian Burke**

Dr. Brian Burke has worked in fisheries since 1993 and joined the NWFSC in early 2002. His interests lie primarily in ecological modeling--from small-scale processes such as energetics and physiology of individuals to larger-scale processes such as animal movement, habitat quality, and population fluctuations. Brian received a B.S. in Natural Resource Management from Ohio State University, an M.S. in Zoology from North Carolina State University, and a Ph.D. from the School of Aquatic and Fishery Sciences at the University of Washington. Brian currently leads the Ocean Ecology Team in the Fish Ecology Division at the Northwest Fisheries Science Center. With team members and various collaborators, he is focused on several studies, including habitat preferences and behavior of Pacific salmon during their early ocean residence and the influence of various ocean indicators on salmon survival.

#### **Sue Grant**

Sue Grant, along with Bronwyn MacDonald, leads DFO's State of the Salmon Program in Fisheries and Oceans Canada's (DFO). Sue's aquatic biology career in Canada has spanned Atlantic cod on the east coast, fish ecology in Northern Alberta, and in recent decades Pacific salmon on the west coast. The goal of the State of the Salmon Program is to track and understand Pacific Salmon trends. This program leads integrative processes and develops data visualization tools to achieve these goals. Through this work, climate change has emerged as a key threat to Pacific Salmon, which will rapidly require new innovative and integrative ways to prioritize management actions going forward.

#### **Dr. Kathryn Sobocinski**

Dr. Kathryn Sobocinski is an Assistant Professor in the Department of Environmental Sciences and the Marine and Coastal Science program at Western Washington University. She is an applied marine ecologist focusing on fishes, fish habitats, and impacts of human disturbance and climate change in coastal ecosystems. She uses statistical, ecological, and individual-based models in conjunction with field data to describe patterns and processes in these ecosystems. She works on several projects related to salmon marine survival and fish ecology more broadly within the Salish Sea and the Bering Sea. Dr. Sobocinski has B.A. from Connecticut College, M.S. from UW-School of Aquatic and Fishery Sciences, and a Ph.D. from the College of William & Mary, Virginia Institute of Marine Science. She completed post-doctoral work at Oregon State and NOAA-NWFSC.