

WSAS Committee Members

WASHINGTON STATE ACADEMY OF SCIENCES
COMMITTEE MEMBERS, THE SCIENCE OF SALMON HATCHERIES

Larry Dalton, Committee Chair

*B. Seymour Rabinovitch Endowed Chair in Chemistry and
George B. Kauffman Professor Emeritus | University of Washington*

Larry Dalton has served on the faculties of Vanderbilt, SUNY, USC, and the University of Washington. At UW, he served as the founding Director of the National Science Foundation Science & Technology Center on Information Technology Research. His awards at UW include the 2003 American Chemical Society Award in the Chemistry of Materials, the 2011 Linus Pauling Medal of the American Chemical Society, the 2006 Institute of Electrical and Electronics Engineers William Streifer Scientific Achievement Award, the QEM (Quality Education for Minorities) /MSE (Mathematics, Science, and Engineering) Network 2005 Giants in Science Award, and a Helmholtz International Award (2015). He is a Fellow of the American Chemical Society, the Materials Research Society, the Optical Society of America, the International Society for Optics and Photonics, and the American Association for the Advancement of Science. Dr. Dalton is a Senior Member of the Institute of Electrical and Electronics Engineers. He obtained a B.S. in 1965 and a M.S. from 1966 from the Honors College of Michigan State University. He then obtained a Ph.D. from Harvard University in 1971 with Professor Alvin Kwiram.

Barry Barejikian*

Program Manager & Manchester Station Chief | Northwest Fisheries Science Center (NOAA)

Barry Barejikian leads the Behavioral Ecology Team at the Northwest Fisheries Science Center. He joined the Northwest Fisheries Science Center in 1995 and began work on several projects aimed at quantifying the effects of artificial propagation of salmon and steelhead on natural populations. In 2004, the Behavioral Ecology Team initiated the first studies on the benefits and risks of stock enhancement for marine species in Puget Sound. In 2010, the team began applying behavioral studies of larval sablefish to improve the efficiency and success of marine aquaculture. Dr. Barejikian served on the Northwest Fisheries Science Centers Research Council from 2007 to 2012. He received a B.S. degree in Environmental and Systematic Biology from California Polytechnic State University, San Luis Obispo in 1990, and his M.S. degree (1992) and Ph.D. degree (1995) in Fisheries from the University of Washington.

Joe Cook

Associate Professor of Economic Sciences | Washington State University

Joe Cook's research focus is primarily on water and sanitation policy in low-income countries, water resources economics and policy, and nonmarket valuation. His research has appeared in publications such as the *Journal of the Association of Environmental and Resource Economists*, *Environmental and Resource Economics*, *Water Resources Research*, the *Journal of Policy Analysis and Management*, and *World Development*. He has conducted 13 household surveys in six countries and is an active member of the SIDA-funded capacity-building Environment for Development network. Consulting assignments have included work for the U.S. Millennium Challenge Corporation, the Asian Development Bank, the Hopi Tribe, and the Washington State legislature. He has a M.S. and Ph.D. from the University of North Carolina and a B.S. from Cornell University.

Mike Ford

Director of the Conservation Biology Division | Northwest Fisheries Science Center (NOAA)

Mike Ford joined Northwest Fisheries Science Center in 1995 and has been Director of the Conservation Biology Division since 2003. At the Northwest Fisheries Science Center, he focused initially on using molecular methods to study local adaptation in salmon, before focusing for many years on research to study interactions between hatchery and wild salmon. Dr. Ford has led and participated on multiple Endangered Species Act status review teams for salmon and whales; he has been involved with various aspects of recovery planning for salmon and southern resident killer whales. He received his B.S. from Stanford University and his Ph.D. in population genetics from Cornell University.

Shawn Narum

Lead Geneticist | Columbia River Inter-Tribal Fish Commission

Shawn Narum leads a research group focused on population and ecological genomics of salmonids and other native fish species of the Pacific Northwest. His research includes studies on genetic effects of hatchery practices, genetic tagging and monitoring of fisheries, and genetic adaptation to local environments. Much of his research is facilitated by recent advances in molecular technology including SNP genotyping and next-generation sequencing equipment in the Hagerman Genetics Laboratory at the Columbia River Inter-Tribal Fish Commission. He obtained a B.S. in Fishery Biology from Colorado State University, a M.S. in Marine Science from the University of San Diego, and a Ph.D. in Natural Resources from the University of Idaho.

Thomas Quinn

Professor of Aquatic Fisheries and Sciences | University of Washington

Thomas Quinn is a leading authority on the behavior, ecology, evolution, and conservation of salmon and trout. For decades, he has served as one of the principal researchers for the UW Alaska Salmon Program, where his research has helped to reveal many of the patterns and processes in the behavior and ecology of salmonids. He has used a wide variety of laboratory, field, and analytical approaches to study salmon migration, homing, reproduction, and other themes, including work on all species, and in stream, lake, and marine habitats. In Washington, he has studied the re-colonization of rivers by salmon after dam removal or modification, interactions between wild and hatchery-produced fish, and the movements of salmon and trout in Puget Sound.

Robin Waples

Senior Scientist | Northwest Fisheries Science Center (NOAA)

Robin Waples' early research involved taxonomy and population genetics of tropical and temperate marine fishes, but after joining the Northwest Fisheries Science Center he has worked primarily with salmon. Before assuming the role of senior scientist at the end of 2000, Robin led the Conservation Biology Division and its precursors for a decade. During this time the Conservation Biology Division staff conducted a series of comprehensive reviews of the status of Pacific salmonids under the federal Endangered Species Act. From 1999-2003 he was the Center's scientific lead for salmon recovery planning, and during 2003 and 2004 he was a visiting scientist at university laboratories in France and the U.S. Dr. Waples has a B.A. in American Studies from Yale University and a Ph.D. in Marine Biology from Scripps Institution of Oceanography.

Peter Westley

Assistant Professor of Fisheries Conservation and Fisheries Ecology | University of Alaska Fairbanks

Peter Westley's research seeks to understand how fishes respond and adapt to abrupt environmental change across levels of biological organization. Work in his lab addresses this overarching question through the combination of field, laboratory, meta-analysis, and modeling approaches. He obtained a B.S. in Fisheries from the University of Washington in 2004 and a Ph.D. from the Memorial University of Newfoundland in Canada in 2012.

James Winton

Senior Scientist Emeritus, Fish Health | Western Fisheries Research Center (USGS)

Jim Winton works with scientists, technicians, post-doctoral researchers, graduate students and visiting scientists working to improve methods for the detection of fish pathogens, determine factors affecting the epidemiology of fish diseases, and develop novel control strategies for reducing losses among both hatchery-reared and wild fish. He obtained his B.A from the University of Colorado, Boulder and his Ph.D. Oregon State University in 1981.

**Note*: An asterisk notes a committee member who was not able to attend the May 23rd Meeting in person.