

WASHINGTON STATE
Academy of Sciences
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WSAS SCIENCE OF FISH HATCHERIES COMMITTEE

* denotes WSAS Member

*Larry Dalton, Chair, dalton@chem.washington.edu, (360) 981-4575

Larry Dalton has served on the Chemistry, Biochemistry, Chemical Engineering, and Electrical Engineering faculties of Vanderbilt University, State University of New York at Stony Brook, University of Southern California, and the University of Washington. He has held Chair Professorships at the University of Southern California (where he co-directed the Loker Hydrocarbon Research Institute) and the University of Washington (where he directed the National Science Foundation Science & Technology Center on Materials and Devices for Information Technology Research, several Department of Defense MURI centers, and the DARPA MORPH program). He is a Fellow of the American Chemical Society, the Materials Research Society, the Optical Society of America, the International Society of Optics and Photonics, and the American Association for the Advancement of Science. He is a Senior Member of the Institute of Electrical and Electronic Engineers. He has received numerous national and international awards including multiple awards from the ACS and IEEE. He has nearly five decades of experience in Federal and State advisory service including for NSF, NIH, DoE, DoD, and other agencies. He currently services as Chair of the Topical Working Group of the WSAS for Environmental Quality, Sustainability and Climate Change.

Barry Berejikian, barry.berejikian@noaa.gov. (360) 871-8301

Barry Berejikian leads the Behavioral Ecology Team at the Northwest Fisheries Science Center. Barry 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. Barry joined the Northwest Fisheries Science Center in 1995 and began work on a number of projects aimed at quantifying the effects of artificial propagation of salmon and steelhead on natural populations. Studies have compared the reproductive behavior and breeding success of hatchery and wild salmon, assessed competitive interactions among juveniles, and evaluated the effectiveness of alarm substances on conditioned anti-predator responses. In 2004, the Behavioral Ecology Team initiated the first studies on the benefits and risks of stock enhancement for marine species (Pacific cod and lingcod) in Puget Sound. In 2010, the team began applying behavioral studies of larval sablefish to improve the efficiency and success of marine aquaculture. Barry served on the Northwest Fisheries Science Centers Research Council from 2007 to 2012.

Joe Cook, joe.cook@wsu.edu, (509) 335-3817

Joe's research focus is primarily on water and sanitation policy in low-income countries, water resources economics and policy, and nonmarket valuation. He has a MS and PhD from the University of North Carolina and a BS from Cornell University. His research has appeared in outlets 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 US Millennium Challenge Corporation, the Asian Development Bank, the Hopi Tribe, and the Washington State legislature.

Mike Ford, mike.ford@noaa.gov, (206) 860-5612

Mike Ford joined the Northwest Fisheries Science Center in 1995, and has been Director of the Conservation Biology Division since 2003. As a graduate student, Mike studied the genetics of speciation in fruit flies. Upon coming to the NWFSC, 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. Mike has led and participated on multiple ESA status review teams for salmon and whales, and has been involved with various aspects of recovery planning for salmon and southern resident killer whales. He received his Bachelor of Science Degree from Stanford University and his Ph.D. in population genetics from Cornell University.

Shawn Narum, nars@critfc.org, (208) 837-9096 x1120

Dr. Narum's research interests include programs for genetic monitoring of fisheries, evaluating genetic effects of hatchery practices, and testing for patterns of adaptive vs. neutral genetic variation. 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. Outside of the lab, he enjoys time with his family, fishing for trout, salmon, and tuna, and training for triathlons. Education Ph.D., Natural Resources, University of Idaho, 2006 M.S., Marine Science, University of San Diego, 2000 B.S., Fishery Biology, Colorado State University, 1996

*Tom Quinn, tquinn@uw.edu, (206) 543-9042

Dr. Quinn was born in New York City and was interested in natural history and especially fishes from an early age. He kept tropical fish, went fishing, and learned to scuba dive. He graduated from Swarthmore College in Pennsylvania with a B.A. in Biology in 1976, travelled west, and completed his Ph.D. in Fisheries at the University of Washington in 1981. He then spent four years as a post-doctoral fellow at the Pacific Biological Station, in Nanaimo, British Columbia. He joined the faculty in the University of Washington's School of Fisheries, now School of Aquatic and Fishery Sciences, in 1986. He teaches classes in Scientific Writing and Communication, Fisheries Ecology, and Salmonid Behavior and Life History, and has been co-teaching Aquatic Ecological Research in Alaska with Ray Hilborn and Daniel Schindler. His research program involves the ecology, behavior, evolution and conservation of salmon and trout, and their ecosystems.

*Robin Waples, robin.waples@noaa.gov, (206) 860-3254

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 which time CBD 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. Robin has a B.A. in American Studies from Yale University and a Ph.D. in Marine Biology from Scripps Institution of Oceanography

Peter Westley, pwestley@alaska.edu, (907) 474-7458

Peter Westley is an assistant professor at the University of Alaska. He received his PhD at Memorial University of Newfoundland, Canada in 2012, and did a postdoc in fisheries at the University of Washington. He received bachelors and masters degrees from the University of Washington. He studies phenotypic plasticity, life history evolution, dispersal and philopatry, contemporary evolution, aquatic invasions and colonization, and eco-evolutionary dynamics.

*James Winton, jwinton@usgs.gov, (206) 526-6587

James Winton is a research microbiologist, emeritus. He 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.