

# Columbia River Basin Hatchery Scientific Review Group Professional Biographies

## 1 Agency/Tribal Scientists

### Andy Appleby

Mr. Appleby holds the position of Hatchery Evaluation and Assessment Unit Leader with the Washington Department of Fish and Wildlife in Olympia, Washington. He has worked with hatchery programs in Washington for 29 years and has been involved in many salmonid recovery programs in the State of Washington. Mr. Appleby has been responsible for assisting in the development, and implementation of hatchery research related to fish rearing, release, and general hatchery operations. He provided technical support and analysis for the HSRG Puget Sound and Coastal Hatchery Review and is currently the Hatchery Reform Coordinator for the Washington Department of Fish and Wildlife. Mr. Appleby holds a Bachelor of Science in Fish and Wildlife Resource Management from the University of Idaho and an Associate degree in Fisheries Technology from Mount Hood Community College in Oregon.

### Donald Campton, Ph.D.

Dr. Campton is currently a Senior Scientist at the U.S. Fish and Wildlife Service's Abernathy Fish Technology Center in Longview, Washington. Prior to joining the USFWS, Dr. Campton was an associate professor in the Department of Fisheries and Aquatic Sciences at the University of Florida in Gainesville. He was also a Fisheries Research Biologist for the Washington Department of Game in Mount Vernon, Washington. Dr. Campton holds a Bachelor of Science in Genetics from the University of California- Berkeley, a Master's of Science in Fisheries from the University of Washington, and a Doctor of Philosophy from the University of California-Davis. Dr. Campton is also a member of the Puget Sound HSRG.

### Mike Delarm

As a fishery biologist with the National Marine Fisheries Service (NOAA Fisheries Service) in Portland, Oregon, Mr. Delarm has been involved in managing hatchery programs in the Columbia River Basin for 25 years. He developed the first Biological Opinions (BiOp) for NOAA Fisheries Service on hatchery operations in the Columbia Basin following salmon listings under the Endangered Species Act in the early 1990s. Development and establishment of the BiOps helped accelerate hatchery reforms in the Columbia Basin. Since 1998, Mr. Delarm has represented NOAA Fisheries in US v Oregon (Federal Court-supervised case) negotiating hatchery management plans. Currently, he heads a team of NOAA Fisheries Service biologists responsible for reviewing, analyzing, and issuing biological opinions on hatchery operations in the Interior Columbia Basin. Mr. Delarm graduated from Humboldt State University with a Bachelor of Science in Fisheries Biology.

## David Fast, Ph.D.

Dr. Fast is currently a Senior Research Scientist for the Yakima/Klickitat Fisheries Project (YKFP) for the Yakama Nation in Toppenish, Washington. Dr. Fast has developed and implemented research programs for restoration of spring and fall Chinook, coho, and steelhead in the Yakama and Klickitat basins, including the Cle Elum Supplementation and Research Facility (spring Chinook), the supplementation program for fall Chinook at the Prosser Hatchery complex, coho reintroduction studies throughout the Yakima watershed, and steelhead kelt reconditioning and reproductive success evaluations. He is familiar with EDT and AHA modeling components which are used in YKFP's modeling system. Dr. Fast holds a Bachelor of Science in Zoology from St. John's University; a Master's of Science in Marine Fisheries from the University of Puerto Rico, and a Ph.D. in Fisheries Science from the University of Washington.

## Tom Flagg

Mr. Flagg is Supervisory Fish Biologist and Station Manager of the NOAA Fisheries Northwest Fisheries Science Center's Manchester Research Station in Manchester, Washington, as well as Program Manager for the Manchester Station's Salmon Enhancement Research Program. He has been an employee of the Center since 1978.

Mr. Flagg's research interests center on hatchery reform, including development of captive broodstock programs to conserve depleted gene pools of salmonids; development of supplementation techniques for restoration of depleted stocks of salmonids to their native habitats; and development of fish husbandry technology to produce wild-type juvenile salmon for release from hatcheries. In addition to his membership on the HSRG, Mr. Flagg serves on the U.S. Fish and Wildlife Service's Hatchery Review Team (HRT) which is conducting a review of Fish and Wildlife Service's facilities in the Columbia River Basin. He received a Bachelor of Science and a Master's of Science in Fisheries from the University of Washington. Mr. Flagg is also a member of the Puget Sound HSRG.

## Jeffrey Gislason, Ph.D.

Dr. Gislason is currently a senior Fish Biologist in the Fish and Wildlife Division of the Bonneville Power Administration in Portland, Oregon, where he is the technical lead for artificial production. He is responsible for leadership, planning, and coordination of Bonneville's implementation of artificial production measures in the Columbia River Basin Fish and Wildlife Program and the hatchery offsite mitigation actions in the Federal Columbia River Power System Biological Opinion.

Dr. Gislason has served as Bonneville's project manager for design and construction of the Cle Elum supplementation and research hatchery and several conservation hatcheries for threatened and endangered salmon. From 1992 to 2002, he chaired the Stanley Basin Sockeye Technical Oversight Committee, which provides technical guidance for the endangered Snake River sockeye captive propagation program. Dr. Gislason received a Bachelor of Science in Fisheries from the University of Michigan, a Master's in Science from Michigan State University, and a Ph.D. in Fisheries from the University of Washington.

## Paul Kline

Mr. Kline is a Principal Fisheries Research Biologist for the Idaho Department of Fish and Game (IDFG). Since 1993, Mr. Kline has been part of IDFG's anadromous fisheries research section. He is currently responsible for coordinating IDFG's conservation broodstock programs for Snake River sockeye salmon and spring Chinook salmon. In addition, Mr. Kline oversees monitoring and evaluation efforts for IDFG's anadromous hatchery programs operated under the Lower Snake River Compensation Plan. He has participated in a variety of regional processes including the development of Hatchery and Genetic Management Plans, the Artificial Production Review and Evaluation, and the All H Analyzer effort. Mr. Kline is experienced in the development of biological assessments and consultation documents used specifically to address ESA compliance needs. He received a Bachelor of Science and a Master's in Science from Humboldt State University.

## Des Maynard, Ph.D.

Dr. Maynard served as an alternate for NOAA Fisheries Northwest Fisheries Science Center involvement on the Columbia River HSRG. Dr. Maynard leads the Center's Stock Conservation Team at the Manchester Research Station. His primary responsibility at the Station is to manage the safety net rearing of ESA listed Snake River and Puget Sound salmon stocks. As a Center scientist he has served on NOAA Biological Review Teams, interagency hatchery design teams, and the A73 (Springer) Rescue Team.

Dr. Maynard's work focuses on fish culture and behavior. He started at the Center as a volunteer in 1976 conducting applied research examining the effect of petroleum on the sensory biology and migration of Pacific salmon. His research then switched to basic science examining the evolution of status signaling and social structure in juvenile coho salmon. Over the last 20 years, Dr. Maynard's research has returned to applied science with a series of studies on the comparative effects of tags on salmon survival, tag interrogation systems on fish passage, and the development of new fish culture techniques to improve the post-release survival of hatchery salmonids. He has also taught courses on fisheries science, fish behavior, ichthyology, marine biology, aquaculture, and conservation aquaculture at Washington State colleges and universities. Dr. Maynard received a Bachelor of Science in Marine Biology from the University of Massachusetts-Dartmouth and his M.S. and Ph. D. in Fisheries Science from the University of Washington.

## George Nandor

Mr. Nandor is the Program Manager of the Regional Mark Processing Center for the Pacific States Marine Fisheries Commission in Portland, Oregon. He is responsible for maintaining the Coded Wire Tag Database for all salmonid releases and recaptures on the United States' Pacific Coast. The position includes coordinating and sharing data with Canada under the auspices of the Pacific Salmon Commission and the Pacific Salmon Treaty and membership as a U.S. representative on the Selective Fishery Evaluation Committee, Technical Committee on Data Sharing and the Working Group on Data Standards.

Previously, Mr. Nandor worked for the Oregon Department of Fish and Wildlife for 31 years where he served first as a hatchery technician before operating and managing six salmonid hatchery operations. The position he occupied before leaving ODFW was the Assistant Fish Propagation Program Manager. In this capacity, he was responsible for

coordinating the hatchery production goals for all ODFW hatcheries and guiding all phases of trout and salmon hatchery operations.

In 1995, he was the Oregon team member on the IHOT Audit Team and the author of the revised IHOT Operation Plans for Anadromous Fish Production Facilities in the Columbia River Basin, Volume II-Oregon. Mr. Nandor was also a team member of the ODFW Coastal Hatchery Review, 1999, and the ODFW State Funded Hatchery Evaluation, 2003, and the ODFW 2006 Hatchery Evaluation, and was the facilitator and lead author of Oregon's Fish Hatchery Management Policy in 2003. He has represented Oregon on the US v Oregon, Production Advisory Committee, is an executive team member of the annual NW Fish Culture Conference, and is an expert on hatchery programs and operations on the Pacific Coast. Mr. Nandor holds a Bachelor of Science degree from the University of Washington.

### Peter Paquet, Ph.D.

Dr. Paquet is the Manager of Wildlife and Resident Fish for the Northwest Power and Conservation Council (NPCC) in Portland, Oregon. He also serves as director of the Watershed Management Professional Program at Portland State University. Dr. Paquet has been on the Council staff since 1983 and was initially responsible for the water budget and Council transactions with the Federal Energy Regulatory Commission. Dr. Paquet led the development of the Council's protected areas program and wildlife mitigation planning program. He served as Deputy Director of the Multi-species Framework process and as the technical coordinator for the Subbasin Planning Process. In 2000 and 2001, Dr. Paquet represented PSU and the Watershed Management Professional Program as an advisor to the G.A.P. Water Development Project on the Tigris and Euphrates rivers in Turkey. His educational background includes a Bachelor of Science in Biology from the University of Santa Clara, a Master's in Biology from Portland State University, and a Ph.D. in Environmental Science and Natural Resources from Portland State University.

### Paul Seidel

Mr. Seidel was a member of the Columbia River Basin HSRG until his retirement from the Washington Department of Fish and Wildlife in 2008. He was been involved with Washington Department of Fish and Wildlife hatchery activities for 25 years and has been involved in many salmonid recovery programs in the State of Washington. Before leaving the department and HSRG, he led strategic planning, policy development and negotiations for all hatchery reform activities in Washington State. Previously, Mr. Seidel has served as Operations Manager and Area Division Manager for agency fish cultural facilities, Fish Research Biologist for statewide hatchery research and evaluation activities, and coordinated the establishment and operation of all cooperative and non-departmental salmonid cultural facilities in Washington. He holds a Bachelor of Science in Biology and Chemistry from St. Martin's College and a Master's in Science from the University of Washington. He was a member of the Puget Sound HSRG as well as the Columbia River HSRG.

## 2 Independent Scientists

### John Barr

Mr. Barr has over 25 years of experience in fisheries management in the Pacific Northwest including harvest management of anadromous fisheries; habitat management; salmon recovery; and planning, operation, and supervision of numerous artificial propagation facilities and programs. He has been responsible for planning, supervision, and operation of tribal and federal/tribal cooperative fisheries programs for fisheries enhancement and recovery.

He worked with numerous inter-disciplinary teams to develop hatchery operational guidelines for fish health, species recovery plans, and hatchery evaluations including the Northwest Power and Conservation Council's artificial production review project. Mr. Barr has served on design and planning teams for hatchery facilities and programs for the U.S. Fish and Wildlife Service, the Nisqually Indian Tribe, the Elwha S'klallam Tribe, Tacoma Public Utilities, and Seattle City Light among others. Mr. Barr has planned, designed, and operated nearly every type of fish rearing facility including low cost, low-tech stations to one of the newest and largest tribal facilities in Puget Sound. Mr. Barr graduated cum laude from the University of Washington with a Bachelor's of Science in Fisheries. He is a member of the Puget Sound HSRG as well as the HSRG for the Columbia River.

### H. Lee Blankenship

Mr. Blankenship is a Senior Research Scientist with Northwest Marine Technology in Olympia, Washington. Previous to joining Northwest Marine Technology in 2002, he spent 30 years with the Washington Department of Fish and Wildlife. Mr. Blankenship has spent most of his career developing and evaluating stock identification tools. While with WDFW, he was instrumental in the development of the coded wire tag. Mr. Blankenship has authored numerous publications dealing with stock identification and marine stock enhancement. He has served five years as an associate editor for the North American Journal of Fisheries Management and is an Adjunct Scientist with Mote Marine Laboratory in Florida. Mr. Blankenship received a Bachelor's of Science in Fisheries from the University of Washington and is a member of the HSRG for Puget Sound in addition to the Columbia River HSRG.

### Trevor Evelyn, Ph.D.

Dr. Evelyn retired in 1997 from his position as head of the Fish Health and Parasitology Section at the Department of Fisheries and Oceans' Pacific Biological Station (PBS) in Nanaimo, British Columbia. Currently, he retains post-retirement office facilities at PBS and has been accorded the title of Scientist Emeritus. Dr. Evelyn continues to advise agencies, scientific journals, book publishers, and Canadian and foreign organizations on matters related to fish health.

Dr. Evelyn's extensive studies on fish diseases and their control have been widely published in leading fish health journals and his expertise in this field is recognized nationally and internationally. At the request of various national and international organizations, he has undertaken projects in many parts of the world. In North America, he served the Fish Health Section of the American Fisheries Society (AFS) in a number of capacities, including that of its elected President. His work has earned him various

honors including the AFS Fish Health Section's SF Snieszko Distinguished Service Award and an Honorary Doctor of Letters degree from Malaspina University College. Dr. Evelyn holds a Bachelor of Science in Agriculture and a Master's of Science in Agriculture from the University of Toronto (Toronto, Canada) and a Ph.D. from the University of British Columbia (Vancouver, Canada). He has also been a member of the Puget Sound HSRG since its inception in 2000.

### Lars Mobrand, Ph.D.

Dr. Mobrand currently is Senior Fisheries Biologist/Biometrician for Mobrand/Jones & Stokes in Vashon, Washington. He was the founder and principal scientist of Mobrand Biometrics from 1982 to 2005. Mobrand/Jones & Stokes specializes in ecosystem planning, resource restoration, cumulative impact analysis, and facilitation of cooperative resource planning projects. Dr. Mobrand has developed a number of biometric tools, including Ecosystem Diagnosis and Treatment, in use within the Pacific Northwest. More recently, he was instrumental in developing the All "H" Analyzer Model, a key tool for assessing trade-offs and interactions among policies and actions affecting habitat, harvest, hydroelectric, and hatcheries in the Columbia River Basin.

Dr. Mobrand has served as Chief of Salmon Harvest Management and Chief of the Salmon Research Division for the Washington Department of Fisheries, Technical Mediator on inter-tribal harvest allocation issues in the US v Washington Case Area, Technical Advisor to the Federal Judge in the US v Washington fishing rights case (Boldt Case), and as Chairman of the Fisheries Advisory Board under US v Washington. He has been heavily involved in subbasin planning for the Council. Dr. Mobrand holds a Bachelor of Science in Chemistry and a Ph.D. in Biomathematics from the University of Washington. He is a member of both the Puget Sound and Columbia River HSRGs.

### Stephen H. Smith

Mr. Stephen Smith has been the owner and primary professional in Stephen H. Smith Fisheries Consulting, Inc., since it was founded in 2000. In this capacity, Mr. Smith provides technical and policy products and advice on artificial propagation of salmon and steelhead and specific hatchery programs to the Bonneville Power Administration, Northwest Power and Conservation Council, NOAA Fisheries, Bureau of Reclamation, and the Confederated Tribes of the Colville Reservation.

Between 1995 and 2000, Mr. Smith was the Chief of the Hatcheries and Inland Fisheries Branch of the National Oceanic and Atmospheric Administration in Portland, Oregon. Previously, he was employed by the Bonneville Power Administration as a Senior Policy Analyst in the Division of Fish and Wildlife (1992 to 1995) and as Chief of the Fisheries Integration Branch (1983 to 1992). He is particularly experienced in addressing emerging policy issues related to hatcheries and fisheries in the Columbia Basin. Mr. Smith has been an active participant in Council forums related to hatchery policy and programs for the past 10 years and has contracted with the Council to assist in the reform of hatchery programs and policies in the Columbia River Basin. Mr. Smith holds a Bachelor of Science (with honors) in Wildlife and Fisheries Biology from the University of California at Davis.