

Leska Fore

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Objective

To build alliances and partnerships so that we understand *collectively* what the science is telling us, and then choose together the best actions to protect our water resources.

Work Experience

Monitoring Program Performance Analyst, Science & Evaluation

Puget Sound Partnership, Tacoma, WA, 2012 – Present

- *Ecosystem Monitoring and Assessment*
 - Developed and implemented an [effectiveness assessment program](#) to inform decision makers about what actions are working to restore Puget Sound. In 2015, the State legislature provided funding to expand this program.
 - Presented information about what's working to restore Puget Sound to Partnership boards, PSEMP Steering Committee and Work Groups, scientific experts, and local management groups.
- *Collaboration*
 - Formed a cross-agency group that includes Department of Ecology, Governor's Salmon Recovery Office, Department of Fish and Wildlife, and the Conservation Commission to build an analysis tool designed to communicate the effectiveness of recovery actions to improve water quality, habitat, and salmon populations.
 - Worked with citizen volunteers to publish their monitoring data of beaches as a peer-reviewed scientific article.
 - Member of Salmon Recovery Funding Board's Monitoring Panel; Staff Lead for PSEMP Freshwater Work Group; State Caucus Representative to PSEMP Stormwater Work Group and member of Pooled Resources Oversight Committee
- *Project Management*
 - Designed and led regional workshops for the PSEMP Salmonid Work Group to reach consensus on a set of common indicators of habitat condition for Chinook recovery in 16 Puget Sound watersheds.
 - Managed contracts with academic institutions, state agencies, and consulting firms.

Vice-President, Mazama Design, Inc., Seattle, WA, 1995 – present

- Facilitated the formation of the PSEMP Stormwater Work Group, a caucus-based group that administers pooled resources from 90 jurisdictions in Puget Sound and oversees a \$10 million monitoring budget during each stormwater permit cycle.
- Developed Water Quality Standards for biological indicators that state agencies use to assess the status of streams (WA, FL, CO, MI and MN), rivers (WA and ID), lakes (FL and MN), and coral reefs (USVI) under the Clean Water Act.
- Designed ecosystem monitoring programs for federal, state, tribal and local jurisdictions to track status and trends of aquatic resources to meet federal reporting requirements.
- Communicated scientific results from collaborative projects at national, state, regional and local conferences and published journal articles.

Education

Seattle University, Seattle, WA
M.A. Organizational Development, 2011

University of Washington, Seattle, WA
M.S. Quantitative Ecology and Resource Management (Statistics and Biometry), 1992

Brown University, Providence, RI
A.B. Biology, with Honors, 1983

Selected Publications

- Oliver, L. M., W. S. Fisher, L. Fore, A. Smith, P. Bradley. 2018. Assessing land use, sedimentation, and water quality stressors as predictors of coral reef condition in St. Thomas, U.S. Virgin Islands. ***Environmental Monitoring and Assessment***. In press. DOI: <https://doi.org/10.1007/s10661-018-6562-1>.
- Toft, J. D., L. S. Fore, T. Hass, B. Bennett, L. Brubaker, D. Brubaker, C. A. Rice, and Island County Beach Watchers. 2017. A framework to analyze citizen science data for volunteers, managers, and scientists. ***Citizen Science: Theory and Practice*** 2(1): 2-11. DOI: <https://doi.org/10.5334/cstp.100>.
- Fisher, W. S., L. S. Fore, and 12 co-authors. 2014. Regional status assessment of stony corals in the US Virgin Islands. ***Environmental Monitoring and Assessment*** 186(11): 7165-81.
- Bradley, P., W. S. Fisher, and L. S. Fore. 2014. Coral Reef Monitoring Needs Assessment Workshop, St. Croix, U.S. Virgin Islands. U.S. Environmental Protection Agency, Office of Research and Development, Narragansett, RI. EPA/600/R-14/368.
- Fore, L. S., J. R. Karr, W. S. Fisher, P. Bradley and W. S. Davis. 2009. Heeding a call to action for U.S. coral reefs: the untapped of the Clean Water Act. ***Marine Pollution Bulletin*** 58:1421-1423.
- * Fore, L. S., J. R. Karr, W. S. Fisher, and W. S. Davis. 2008. Making waves with the Clean Water Act. ***Science*** 322:1788.
- Fisher, W. S., L. S. Fore, A. Hutchins, R. L. Quarles, J. G. Campbell, C. LoBue and W. S. Davis. 2008. Evaluation of stony coral indicators for coral reef management. ***Marine Pollution Bulletin*** 56:1737-1745.
- Fore, L. S., W.S. Fisher, and W. S. Davis. 2006. Bioassessment Tools for Stony Corals: *Field Testing of Monitoring Protocols in the US Virgin Islands (St. Croix)*. EPA-260-R06-004. USEPA Office of Environmental Information. Washington, DC.
- Fore, L. S. and W. H. Clark. 2005. Statistical power comparison of two sampling protocols for riverine snails. ***Northwest Science*** 79:91-98.
- Fore, L. S. 2003. Developing Biological Indicators: Lessons Learned from Mid-Atlantic Streams. USEPA 903/R-003/003. U.S. Environmental Protections Agency, Office of Environmental Information and Mid-Atlantic Integrated Assessment Program, Region 3, Ft. Meade, MD. www.epa.gov/bioindicators/
- Fore, L. S. 2002. Biological assessment of mining disturbance on stream invertebrates in mineralized areas of Colorado. Pp. 347-370 in T. P. Simon (Ed.). ***Biological Response Signatures: Patterns in Biological Integrity for Assessment of Freshwater Aquatic Assemblages***. CRC Press LLC, Boca Raton, FL.
- Fore, L. S. 2002. Response of diatom assemblages to human disturbance: development and testing of a multimetric index for the Mid-Atlantic Region (USA). Pp. 445-480 in T. P. Simon (Ed.). ***Biological Response Signatures: Patterns in Biological Integrity for Assessment of Freshwater Aquatic Assemblages***. CRC Press LLC, Boca Raton, FL.
- Fore, L. S. and C. Grafe. 2002. Using diatoms to assess the biological condition of large rivers in Idaho (USA). ***Freshwater Biology*** 47:2015-2037.
- Fore, L. S., J. R. Karr, and L. L. Conquest. 1994. Statistical properties of an index of biotic integrity used to evaluate water resources. ***Canadian Journal of Fisheries and Aquatic Sciences*** 51:1077-1087.

- Fore, L. S., J. R. Karr, and R. W. Wisseman. 1996. Assessing invertebrate response to human activities: evaluating alternative approaches. *Journal of the North American Benthological Society* 15:212-231.
- Fore, L. S., K. Paulsen, and K. O'Laughlin. 2001. Assessing the Performance of Volunteers in Monitoring Streams. *Freshwater Biology* 46: 109-123.
- Jennings, M. J., L. S. Fore, and J. R. Karr. 1995. Biological monitoring of fish assemblages in Tennessee Valley reservoirs. *Regulated Rivers: Research and Management* 11:263-274.
- Kimberling, D. N., J. R. Karr, and L. S. Fore. 2001. Measuring human disturbance using terrestrial invertebrates in the shrub-steppe of eastern Washington (USA). *Ecological Indicators* 1:63-81.

Number of Citations: >1,100 (ResearchGate)

Editorial Service

Associate Editor: *Journal of the North American Benthological Society*, 2006–2010

Manuscript Referee: *Aquatic Conservation: Marine and Freshwater Ecosystems, Ecological Applications, Ecological Complexity, Ecological Indicators, Freshwater Biology, Hydrobiologia, Journal of the American Water Resources Association, Limnology and Oceanography*

Selected Clients

U.S. Environmental Protection Agency, Washington, DC, Ft. Mead, MD, Seattle, WA, Gulf Breeze, FL

U.S. Forest Service, South Lake Tahoe, NV

Quileute Tribe Natural Resources Department, WA

WA Department of Ecology, Olympia, WA

Florida Department of Environmental Protection, Tallahassee, FL

Idaho Department of Environmental Quality, Boise, ID

Michigan Department of Environmental Quality, Lansing, MI

Minnesota Pollution Control Agency, Minneapolis, MN

Idaho Power Company, Boise, ID

King County Department of Land and Water Resources, Seattle, WA

Kitsap County, WA

Snohomish County, Everett, WA

Seattle Public Utility, Seattle, WA

Greater Vancouver Regional District, Vancouver, BC