

Name: Peter A. Bisson **Address:** USDA Forest Service
Birth: August 28, 1945 Olympia Forestry Sciences Laboratory
Dover, Delaware 3625 93rd Avenue SW
Olympia, WA 98512-9193
Office 360-753-7671
FAX 360-956-2346
e-mail pbisson@fs.fed.us

Education

Dates	Degree	Institution	Major
1963-65	-	Ventura College	Biology
1965-67	B.A.	University of California at Santa Barbara	Environmental Biology
1967-69	M.S.	Oregon State University	Fisheries and Wildlife
1969-71	-	University of South Florida	Zoology
1971-75	Ph.D.	Oregon State University	Fisheries and Wildlife

Employment

1995-Present: Research Fish Biologist, USDA Forest Service, Olympia, Washington
1974-1995: Aquatic Biologist, Weyerhaeuser Company, Tacoma, Washington

Expertise

Structure and function of stream ecosystems
Fish population dynamics and community structure
Environmental impacts of land use practices on aquatic ecosystems
Zoogeography and systematics of freshwater fishes

Professional Societies

American Fisheries Society
American Society of Limnology and Oceanography
Ecological Society of America
American Society of Ichthyologists and Herpetologists
Pacific Fishery Biologists
North American Benthological Society
Gilbert Ichthyological Society
Sigma Xi

Professional Committee Memberships and Advisory Panels

1992-95: National Academy of Sciences, National Research Council, Board on Environmental Studies and Toxicology, Committee on Protection and Management of Pacific Northwest Anadromous Salmonids.
1996-98: National Academy of Sciences, National Research Council, Water Science and Technology Board, Committee on New Perspectives on Watershed Management: Integrating Ecological, Social, and Economic Dimensions.
1996-2005: Independent Scientific Advisory Board (ISAB), Northwest Power Planning Council, Columbia Basin Fish and Wildlife Authority, and National Marine Fisheries Service, Portland, Oregon. Elected Vice-Chair, 1999.
2001-04: Programme Committee, Fourth World Fisheries Congress, Vancouver, British Columbia, Canada.

Editorial

- 1985-88: Editorial Board, *Journal of Freshwater Ecology*.
- 1993-95: Associate Editor, *Transactions of the American Fisheries Society*.
- 1994-95: Co-Editor, Proceedings of a symposium on *Pacific Salmon and Their Ecosystems*. Center for Streamside Studies, University of Washington.
- 1995-96: Co-Editor, Proceedings of a symposium on *Sea-Run Cutthroat Trout: Biology, Management, and Future Conservation*. Oregon Chapter, American Fisheries Society.
- 1999-2003: Co-Editor, Book on *Strategies for Restoring Rivers: Sources of Variability and Uncertainty in Natural and Managed Systems*. American Fisheries Society.

Elected Offices and Affiliate Faculty

- 1988-92: President's cycle (vice-president, president-elect, president, past president), North Pacific International Chapter, American Fisheries Society.
- 1988-Present: Affiliate faculty, College of Forest Resources and Center for Streamside Studies, University of Washington, Seattle, Washington.
- 1989-Present: Affiliate faculty, School of Fisheries, College of Ocean and Fisheries Sciences, University of Washington, Seattle, Washington.
- 1989-Present: Special courtesy faculty, Department of Fisheries and Wildlife, Oregon State University, Corvallis, Oregon.
- 1995-99: President's cycle (vice-president, president-elect, president, past president), Western Division, American Fisheries Society.
- 2001-Present: Affiliate faculty, Department of Biological and Agricultural Engineering, College of Agricultural and Life Sciences, University of Idaho, Moscow, Idaho.
- 2004-2005: Nominating representative, Western Division, American Fisheries Society.

Selected Publications

- Bisson, P. A., and G. E. Davis. 1976. Production of juvenile chinook salmon, *Oncorhynchus tshawytscha*, in a heated model stream. *U.S. Fish and Wildlife Service Fishery Bulletin (NOAA)* 74(4):763-774.
- Bisson, P. A., J. L. Nielsen, R. A. Palmason, and L. E. Grove. 1982. A system of naming habitat types in small streams, with examples of habitat utilization by salmonids during low streamflow. Pages 62-73 *In* N. B. Armantrout, editor. Acquisition and utilization of aquatic habitat inventory information. Proceedings of a symposium held 28-30 October, 1981, Portland, Oregon. Western Division, American Fisheries Society, Bethesda, Maryland, USA.
- Bisson, P. A., K. Sullivan, and J. L. Nielsen. 1988. Channel hydraulics, habitat use, and body form of coho salmon, steelhead, and cutthroat trout in streams. *Transactions of the American Fisheries Society* 117:262-273.
- Bisson, P. A., J. L. Nielsen, and J. W. Ward. 1988. Summer production of coho salmon stocked in Mount St. Helens streams 3-6 years after the 1980 eruption. *Transactions of the American Fisheries Society* 117:322-335.

- Bisson, P. A., T. P. Quinn, G. H. Reeves, and S. V. Gregory. 1992. Best management practices, cumulative effects, and long-term trends in fish abundance in Pacific Northwest river systems. Pages 189-232 In R. J. Naiman, editor. *Watershed management: Balancing sustainability and environmental change*. Springer-Verlag, New York, N.Y., USA.
- Bisson, P. A. 1995. Ecosystem and habitat conservation: more than just a problem of geography. Pages 329-333 In J. L. Nielsen, editor. *Evolution and the aquatic ecosystem: defining unique units in population conservation*. American Fisheries Society Symposium 17, Bethesda, Maryland, USA.
- Bisson, P. A., and D. R. Montgomery. 1996. Valley segments, stream reaches, and channel units. Pages 23-52 In F. R. Hauer and G. A. Lamberti, editors. *Methods in stream ecology*. Academic Press, San Diego, California, USA.
- Magnuson, J. J., F. W. Allendorf, R. L. Beschta, P. A. Bisson, H. L. Carson, D. W. Chapman, S. S. Hanna, A. R. Kapuscinski, K. N. Lee, D. P. Lettenmeier, B. J. McKay, G. M. MacNabb, T. P. Quinn, B. E. Riddell, and E. E. Werner. 1996. *Upstream: salmon and society in the Pacific Northwest*. National Academy Press, Washington, D.C., USA.
- Bisson, P. A., G. H. Reeves, R. E. Bilby, and R. J. Naiman. 1997. Watershed management and Pacific salmon: desired future conditions. Pages 447-474 In D. J. Stouder, P. A. Bisson, and R. J. Naiman, editors. *Pacific salmon and their ecosystems*. Chapman and Hall, New York, USA.
- Bisson, P. A., and R. E. Bilby. 1998. Organic matter and trophic dynamics. Pages 373-398 In R. J. Naiman and R. E. Bilby, editors. *River ecology and management: lessons from the Pacific coastal ecoregion*. Springer-Verlag, New York, N.Y., USA.
- Graf, W. L., C. J. Aichinger, B. P. Anderson, G. Benoit, P. A. Bisson, M. W. Garcia, J. P. Heaney, C. A. Johnston, L. J. Lane, C. H. Olson, G. W. Peterson, M. J. Pfeffer, L. Shabman, J. Stanford, and S. W. Trimble. 1999. *New strategies for America's watersheds*. National Academy Press, Washington, D.C., USA.
- Naiman, R. J., R. E. Bilby, and P. A. Bisson. 2000. Riparian ecology and management in the Pacific coastal rain forest. *BioScience* 50(11):996-1011.
- Bisson, P. A., B. E. Rieman, C. Luce, P. F. Hessburg, D. C. Lee, J. L. Kershner, G. H. Reeves, and R. E. Gresswell. 2003. Fire and aquatic ecosystems of the western USA: current knowledge and key questions. *Forest Ecology and Management* 178(2003):213-229.
- Wissmar, R. C., and P. A. Bisson, editors. 2003. *Strategies for restoring river systems: sources of variability and uncertainty in natural and managed systems*. American Fisheries Society, Bethesda, Maryland.
- Bisson, P. A., G. H. Reeves, S. V. Gregory, and S. M. Wondzell. 2003. Trends in using wood to restore aquatic habitats and fish communities in western North American rivers. Pages 249-264 *in* S. V. Gregory, K. L. Boyer, and A. M. Gurnell, editors. *The ecology and management of wood in world rivers*. American Fisheries Society, Symposium 37, Bethesda, Maryland.
- Elliott, S. R., R. J. Naiman, and P. A. Bisson. 2004. Riparian influences on the biophysical characteristics of seston in headwater streams. *Northwest Science* 78(2):150-157.
- Bisson, P. A., C. M. Crisafulli, B. R. Fransen, R. E. Lucas, and C. P. Hawkins. 2005. Responses of fish to the 1980 eruption of Mount St. Helens. Pages 163-182 In V. H. Dale, F. R. Swanson, and C. M. Crisafulli, editors. *Ecological responses to the 1980 eruption of Mount St. Helens*. Springer, New York, USA.