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April 5, 2005

## **DECISION MEMORANDUM**

**To: Council Members**  
**From: Erik Merrill and Steve Waste**  
**Subject: Independent Scientific Review Panel Appointments**

### **Proposed Action**

Council staff asks that the Council appoint Drs. Peter Bisson and Eric Loudenslager to the Independent Scientific Review Panel for three-year terms through May 31, 2008.

### **Background**

The Independent Scientific Review Panel (ISRP) consists of eleven members assisted by a number of Peer Review Group members. The ISRP was created by amendment to the Northwest Power Act in 1996. The Council was charged to create the ISRP to provide scientific review of projects proposed for funding through the Bonneville Power Administration's annual fish and wildlife budget, including those in federal agency budgets that are reimbursed by BPA. The proposals are reviewed for their scientific merit and consistency with the Council's Fish and Wildlife Program. The ISRP analyzes the information gained from the proposal review and makes recommendations to the Council. The ISRP works in tandem with the Independent Scientific Advisory Board (ISAB). The ISAB provides general scientific advice on recovery and mitigation efforts whereas the ISRP provides scientific review of specific project proposals. The Council, NOAA Fisheries, and the Columbia River Indian Tribes sponsor the ISAB and appoint ISAB members.

The Council alone appoints the eleven members of the ISRP. ISRP and ISAB members are eligible to serve two three-year terms. Terms can be adjusted to ensure continuity of effort and to stagger replacement of members. The amended Power Act language directs that the Council appoint members based on recommendations from the National Research Council. The National Research Council selection committee previously recommended Drs. Bisson and Loudenslager for membership on the ISRP and the Independent Scientific Advisory Board (ISAB). Both were appointed to the ISAB, actively participated in ISAB projects, and served full terms.

Dr. Bisson is a specialist on habitat issues at the Olympia (Washington) Forestry Sciences Laboratory of the U.S. Forest Service. He has been a member of the ISAB for the past eight years and will be completing his final term this May. He was also an original member of the ISRP, but after the first several ISRP reviews he resigned to focus his effort on ISAB duties. He has contributed significantly to the ISAB serving as the ISAB vice-chair and committee lead on a number of ISAB assignments including the ISAB's report, *Review of Strategies for Recovering Tributary Habitat* (ISAB 2003-2)<sup>1</sup>, which examined what concepts and strategies should be incorporated in habitat recovery actions to improve their chances for success. His early work on the ISRP emphasized the need to conduct watershed assessments to guide the prioritization of habitat actions. ISRP recommendations on this issue informed the Council's decision to pursue subbasin planning. His knowledge and expertise with salmon habitat has direct application to the Fish and Wildlife Program's focus on habitat restoration and protection strategies. Dr. Bisson's resume is attached below (Attachment 1).

Dr. Eric Loudenslager is an expert in genetics and fish culture, and a hatchery manager at Humboldt State University, California. He has served as ISAB chair for the past several years and a member of the ISAB for the past six years. He will be completing his final term this September. He was a lead author of the ISAB's report, *Review of Salmon and Steelhead Supplementation* (ISAB 2003-3)<sup>2</sup>, for which he reviewed results from the Columbia River Basin's primary supplementation projects. He also participated in subbasin plan reviews and as a Peer Review Group member to the ISRP on numerous Three-Step Reviews of artificial production facilities. His knowledge of the Fish and Wildlife Program's complex artificial production programs will be extremely valuable in upcoming ISRP reviews. Dr. Loudenslager's resume is attached below (Attachment 2).

This May, nine of the eleven ISRP members and eight of eleven ISAB members will complete their final terms. Currently, Council staff is working with the National Research Council selection committee, NOAA Fisheries, and CRITFC to select a pool of potential ISRP and ISAB members from a set of over 40 nominees and to finalize a succession plan for the replacement of long-time members. Council staff plans to brief the Council on these larger ISRP and ISAB membership issues and to ask for additional ISRP and ISAB appointments at the Council's May and/or June meetings. Council staff asks that the Council appoint Drs. Bisson and Loudenslager in advance of the larger decision to ensure that the ISRP's transition benefits from the continuity and guidance of Drs. Bisson and Loudenslager. Their knowledge of the ecological and institutional environment of the Columbia River Basin combined with their experience with subbasin plan review, the project selection process, and the operations of the ISAB and ISRP will make them tremendous assets to the ISRP.

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<sup>1</sup> [www.nwcouncil.org/library/isab/isab2003-2.htm](http://www.nwcouncil.org/library/isab/isab2003-2.htm)

<sup>2</sup> [www.nwcouncil.org/library/isab/isab2003-3.htm](http://www.nwcouncil.org/library/isab/isab2003-3.htm)



### **Selected Professional Committee Memberships and Advisory Panels**

- 1992-1995: American Fisheries Society, North Pacific International Chapter, Endangered Species Committee. (Chairman: 1992-95).
- 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 Responsibilities**

- 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 Appointments**

- 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. 1976. Increased invertebrate drift in an experimental stream caused by electrofishing. Journal of the Fisheries Research Board of Canada 33(8):1806- 1808.
- Bisson, P. A., and P. E. Reimers. 1977. Geographic variation among Pacific Northwest populations of longnose dace, Rhinichthys cataractae. Copeia 1977(3):518-522.
- Bisson, P. A. 1978. Diel food selection by two sizes of rainbow trout (Salmo gairdneri) in an experimental stream. Journal of the Fisheries Research Board of Canada 35(7):971-975.
- 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.
- 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.

## Attachment 2. Eric Loudenslager's Resume

Dr. Eric J. Loudenslager  
Department of Fisheries Biology  
Humboldt State University  
Arcata, CA 95521

Voice: (707) 826-3445 FAX: (707) 826-4060 e-Mail: ejl1@axe.humboldt.edu

### Education

PhD	Zoology and Physiology	University of Wyoming	1978
BS	Biology	University of Wisconsin-Stevens Point	1974

### Expertise

Fish Genetics and Fish Culture

### Affiliations

American Fisheries Society, Fish Culture and Fish Genetics Sections

### Professional Experience

2001 - Present	Chair, ISAB	
1999 - Present	Member - Independent Scientific Advisory Board (ISAB)	
1988 - Present	Adjunct Professor of Fisheries	Humboldt State University, Arcata, CA
1983 - Present	Fish Hatchery Manager	Humboldt State University, Arcata, CA
1981 - 1983	Geneticist	North American Salmon Research Center, St. Andrews, N.B., CANADA
1978 - 1981	Post Doctoral Geneticist	University of California, Davis, CA

### Selected Publications

Baumsteiger, J., D. Hankin, and E. J. Loudenslager. 2005. Genetic Analyses of Juvenile Steelhead, Coastal Cutthroat Trout, and their Hybrids Differs Substantially from Field Identification. Transactions of the American Fisheries Society *In press*.

Loudenslager, E J., A. P. Kinziger, D. G. Hankin, M. S. Thomas, and D. Malakauskas. 2004. Genetic Studies of Trinity River, California Chinook Salmon (*Oncorhynchus tshawytscha*). FY 2004 Report: Microsatellite Allele Frequencies of Spring- and Fall-Run Adults Returning to the Trinity River Fish Hatchery in 1992. Annual Report to Hoopa Valley Tribe.

The Independent Scientific Advisory Board. 2003. Decision support models as tools for developing management strategies: examples from the Columbia River Basin. Pages 233 - 244 in R. C. Wissmar and P. A. Bisson, editors. Strategies for restoring river ecosystems: sources of variability and uncertainty in natural and managed systems. American Fisheries Society, Bethesda, Maryland.

The Independent Scientific Advisory Board. 2002. Hatchery surpluses in the Pacific Northwest. Fisheries 27:12-27.

Yip, G. M, T. J. Hassler, S. Riley, and E. J. Loudenslager. 1996. Genetic Variation, differentiation, and relationships of spring- and fall-run chinook salmon (*Oncorhynchus tshawytscha*) at Trinity River Hatchery, California. Final report RWO 30, National Biological Service CCFRU 1996.

Yeoh, C. G., T. H. Kerstetter, and E. J. Loudenslager. 1991. Twenty-four-hour seawater challenge test for coastal cutthroat trout. The Progressive Fish Culturist 53:173-176.