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Oregon

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"Larry"  
Washington

Tom Karier  
Washington



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Vice-Chair  
Idaho

Judi Danielson  
Idaho

Bruce A. Measure  
Montana

Rhonda Whiting  
Montana

June 7, 2005

## **DECISION MEMORANDUM**

**To:** Council Members

**From:** Erik Merrill, ISRP/ISAB Coordinator, and Steve Waste, ISAB Ex Officio

**Subject:** ISRP, PRG, and ISAB Appointments

## **PROPOSED ACTIONS**

Council staff requests Council actions and discussion pertaining to Independent Scientific Review Panel (ISRP), ISRP Peer Review Group, and Independent Scientific Advisory Board (ISAB) appointments.

Staff asks that the Council:

- 1) Appoint Richard Alldredge, Linda Hardesty, Colin Levings, Bruce Marcot, Katherine Myers, Tom Poe, and Bruce Ward to the ISRP.
- 2) Appoint 42 scientists to the pool of ISRP Peer Review Group Members.

Council staff will also inform the Council on the ISAB appointments recommended by the Council Chair in her capacity as the Council's representative on the ISAB's Administrative Oversight Panel. Specifically, staff will discuss the Oversight Panel's recommendation to appoint the following scientists to the ISAB: Stuart Hurlbert, Roland Lamberson, Colin Levings, Tom Poe, and Peter Smouse, and three of the following scientists, William Percy, Michael Healy, David Montgomery, Mary Power, Rollin Hotchkiss, Eric Taylor, or Chris Wood depending on their availability.

## **SIGNIFICANCE**

The appointments requested in this memo signify a major transition in membership on both the ISRP and ISAB. The ISRP currently has seven of eleven total positions that need to be filled, and the ISAB has eight of eleven positions that are vacant. These positions are open because departing members have completed two full terms and are no longer eligible to serve. Most of these members have served since the groups' inception in 1996. In developing these recommendations, the experience and expertise of the scientists proposed for appointment were carefully considered with the goal to establish an ISRP and ISAB that will foster a multi-

disciplinary approach and offer fresh perspectives, while maintaining an institutional knowledge of independent scientific review and fish and wildlife management in the Columbia River Basin.

## **BUDGETARY IMPACTS**

The ISRP and ISAB operate on annual budgets, independent of the Council's budget, funded by the Bonneville Power Administration through the Fish and Wildlife Program. Costs associated with services and travel of new ISRP and ISAB members will be covered under the ISAB and ISRP's existing budgets. No additional funds are requested.

## **BACKGROUND**

The ISRP and ISAB have different responsibilities in the Council's Fish and Wildlife Program, and the Council plays distinct roles in the administration of each group. To avoid confusion between the groups, this memo identifies which group background information and pending Council decisions apply to.

### *Independent Scientific Review Panel*

The Independent Scientific Review Panel (ISRP) consists of eleven members assisted by a number of Peer Review Group (PRG) 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 funded by Bonneville under the Council's program. Congressional report language subsequently expanded the role of the Panel to include scientific review of projects sponsored by the Corps and other federal agencies that are funded by Bonneville through reimbursement. The ISRP and the Council's review process have served to appreciably increase the level of scientific rigor in Bonneville projects and improve the effectiveness of projects to meet the Council's vision.

The Council appoints the eleven members of the ISRP. The amended Power Act language directs that the Council appoint members based on recommendations from the National Research Council. The amended Power Act language also provides for the panel to be assisted by Peer Review Groups. The Council has appointed a Peer Review Group pool of over 100 scientists, a subset of whom are used on an ad hoc basis to provide specific expertise and augment the capabilities of the ISRP. While not members of the ISRP, the peer review groups are active and essential contributors to the review process.

### *Independent Scientific Advisory Board*

Unlike the ISRP that is solely under the Council's purview, the eleven-member ISAB serves the Council, the National Marine Fisheries Service, and the Columbia River Basin Indian Tribes. The ISAB provides general scientific advice on recovery efforts whereas the ISRP provides scientific review of specific project proposals. For example, the ISAB will soon release a report on the broad topic of science informing salmon harvest management. In comparison, the ISRP has reviewed proposals for studies that look at selective harvest techniques.

The ISAB is governed by an Administrative Oversight Panel consisting of the Council Chair, the Regional Administrator of the National Marine Fisheries Service (D. Robert Lohn) and the

Director of the Northwest Fishery Science Center (Usha Varanasi) as joint participants, and a senior representative of the Columbia Basin Indian Tribes (Olney Patt Jr.). The Oversight Panel's primary responsibilities are to appoint ISAB members and approve the ISAB's work plan.

### *The Appointment Process*

The ISAB and ISRP appointments process follows three steps, of which the first two are complete. First, the Council, National Marine Fisheries Service, and Columbia Basin Indian Tribes invited the region to nominate scientists to be considered for service on the ISRP and/or the ISAB. The National Research Council (NRC) screened the list of nominees and selected a pool of highly qualified ISAB and ISRP nominees. In a May 23, 2005 letter, the National Research Council provided their recommendations to the Council and the ISAB Administrative Oversight Panel (attached). Third, based on the list of recommendations, the Council appoints ISRP members, and the ISAB Oversight Panel appoints ISAB members.

The National Research Council submitted a list of the names of 52 scientists from which ISAB and ISRP members can be appointed. Thirty-four are new recommendations from the list of 76 names provided. The additional 18 are recommendations the Research Council made previously. All of the recommended scientists meet the criteria of membership to the ISAB and ISRP in that they have demonstrated: high achievement in a relevant discipline; a strong record of scientific accomplishment documented by contribution to peer-reviewed literature or other evidence of creative scientific accomplishment; high standards of scientific integrity, independence and objectivity; ability to forge creative solutions to complex problems; and interest in and ability to work effectively in an interdisciplinary setting. In addition, all appointees must confirm their ability to commit sufficient time to effectively participate in review activities and to comply with the ISAB/ISRP conflict of interest standards for the duration of their appointment.

After receipt of the National Research Council's list of scientists, the ISAB's Ex Officio members and science coordinators representing the Council, National Marine Fisheries Service, and Columbia River Indian Tribes met to develop a recommended list of potential appointees for consideration by the ISAB Oversight Panel. On May 26<sup>th</sup>, the Oversight Panel met with the ISAB Ex Officios and science coordinators to discuss their list and the National Research Council's recommendations. In regard to the ISRP appointments, Council staff considered the Oversight Panel's discussions, candidate resumes and interviews, as well as staff's past experience with the scientists recommended in the National Research Council's letter. The background information and analysis below captures the Council staff's and the Oversight Panel's discussions. In sum, each scientist being recommended for appointment has been rigorously evaluated for their scientific qualifications by an independent national body and for their ability to contribute effectively as an ISRP or ISAB member by the groups' administrators.

## **ANALYSIS AND ALTERNATIVES**

### *A Multi-disciplinary Approach*

The ISAB and ISRP governing documents call for membership to include expertise in the following areas: anadromous and resident fish ecology, statistics, modeling, wildlife ecology, genetics, fisheries, fish passage/bioengineering, fish husbandry, ocean and estuary ecology, geomorphology, and socio-economics. Pacific Northwest scientists with expertise in Columbia

River anadromous fish and non-anadromous fish must be included. In addition, the National Research Council continues to stress the importance of the social sciences, ethnic and gender diversity in membership, the importance of large system drivers, and cross-pollination with other broad-scale ecosystem recovery efforts, such as those with Atlantic salmon and the successful Great Lakes stocks of introduced Pacific salmon. Expertise can rarely be pigeonholed in narrow categories, so many of the recommended appointees have broad backgrounds and can cover multiple disciplines.

The National Research Council's list contains enough high quality scientists that it should fill the appointment needs of the ISAB and ISRP for the next 5-6 years, although it might be necessary to consider a new set of nominees for specific areas of expertise, particularly harvest and social sciences, sooner. The National Research Council provided a list of additional scientists in the areas of socio-economics and harvest who Council staff will likely contact and vet through the NRC in the near future. Although one alternative to making all appointments now would be to wait to fill some positions after more candidates with expertise in social sciences and harvest are considered, the Council staff and ISAB Oversight Panel agree that the current set of ISAB and ISRP openings can be adequately filled without pursuing additional scientists, because the current set of ongoing members and recommended appointees will constitute a strong multi-disciplinary group, covering the needed areas of expertise on the ISAB and ISRP (see Table 2 below). ISRP Peer Review Group and ISAB ad hoc members will be used to augment the groups' expertise as needed, e.g., on fish passage issues.

It is important to note that ISRP and ISAB members participate as independent scientists and are not selected to represent the views of any organization or interest group. In fact, the scientists' reputation of providing sound independent advice is an important factor considered in the screening process.

### *Balancing Columbia River Experience with Fresh Perspectives*

The large turnover on the ISRP and ISAB creates a challenge of balancing the benefits of an influx of new ideas and innovative thinking with the potential loss of institutional knowledge. Although the Council appoints ISRP members, the selection process for ISAB and ISRP members is being closely coordinated to help maintain the strong collaborative relationship the ISAB and ISRP have formed over the past eight years. When considered together, the combination of the remaining current ISAB and ISRP members and the recommended appointees will satisfy this balance and establish a group that possesses Columbia River experience and can bring fresh perspectives from outside the basin and beyond fisheries. Four of the seven recommended ISRP appointees have served as ISRP Peer Review Group members and were participants in the subbasin planning and/or the provincial review processes. In addition, the new set of appointees will bolster the groups' expertise in ocean and estuary ecology, two areas of increasing importance in improving mitigation and recovery efforts. Although the domicile of appointees was part of the consideration to bring various perspectives to the groups, this consideration was secondary to the experience needed on the groups and the ability to constitute groups of national caliber.

To further continuity in the ISAB and ISRP, the groups plan to use departing members as ad hoc and Peer Review Group members. An alternative to appointing such a proportionally large number of new members at this time would be to extend and stagger some of the current members' terms over the next two years. Council staff and ISAB Oversight Panel agree,

however, that the experience of the proposed set of appointees combined with the use of departing members on an ad hoc basis will ensure that the groups continue to operate at an effective level. In addition, the ISAB and ISRP assignments were intentionally decreased this summer to allow for this transition. The ISRP workload is likely to increase significantly early in 2006 with the Fiscal Year 2007 project review process, making transitions at a later date more problematic.

To avoid such a large-scale shift of membership at one time in the future, the current set of appointees terms will be staggered over 2, 3, and 4 years to ensure a regular infusion of new members with minimal disruption to ongoing operation of the ISRP and ISAB. The recommended terms for ISRP members are specified below (see Table 1). Terms for ISAB appointees are being developed and hopefully will be agreed upon by the time of the Council meeting.

### **Recommended Actions**

#### **Action 1. Appoint the following seven scientists to the ISRP for first terms, term durations are specified in parentheses:**

1. Rich Alldredge, Ph.D., Professor of statistics at Washington State University. (4 years)
2. Linda Hardesty, Ph.D., Associate Professor of range management at Washington State University, an expert in the biological diversity of eastern Washington. (4 years)
3. Colin Levings, Ph.D., Research Scientist and Past Section Head Marine Environment and Habitat Science Division, Department of Fisheries and Oceans. Canada. (4 years)
4. Bruce Marcot, Ph.D., Wildlife Biologist, Ecosystems Processes Research Program, Portland Forestry Sciences Laboratory, U.S. Forest Service. (2 years)
5. Katherine Myers, Ph.D., Principal Investigator of the High Seas Salmon Research Program at the School of Aquatic and Fishery Sciences, University of Washington. (3 years)
6. Thomas P. Poe, M.S., Consulting Fisheries Scientist, an expert in behavioral ecology of fishes, formerly with the U.S. Geological Survey. (4 years)
7. Bruce Ward, Fisheries Scientist, Ministry of Water, Land and Air Protection, Aquatic Sciences Section, Fisheries Centre, University of British Columbia, an expert in population dynamics, aquatic ecosystems, and international fisheries. (3 years)

Resumes for these scientists can be found on the Council's website under this agenda item for the Council's June 15 meeting.

There is a slight chance that Bruce Marcot will not be able to participate. In the event he cannot participate, Council staff will pursue the appointment of either Jeffrey Olsen, Ph.D., an expert on fish husbandry and genetics from the US Fish and Wildlife Service in Alaska, or an ISAB alternate listed below under ISAB appointments.

These new appointees will join the four current members to fill all eleven positions on the ISRP:

8. Peter A. Bisson, Ph.D., Senior Scientist at the Olympia (Washington) Forestry Sciences Laboratory of the U.S. Forest Service.
9. John Epifanio, Ph.D., Director and Associate Professional Scientist for the Center for Aquatic Ecology at the Illinois Natural History Survey, an expert in conservation genetics and molecular ecology.
10. William Liss, Ph.D., Professor of Fisheries at Oregon State University.
11. Eric J. Loudenslager, Ph.D., Hatchery Manager at Humboldt State University, California, an expert in genetics and fish culture.

The ISRP members that have served full terms and are leaving the ISRP are Charles Coutant, Susan Hanna, Nancy Huntly, Daniel Goodman, Lyman McDonald, Brian Riddell, William Smoker, Richard Whitney, and Richard Williams. The Council appointed Peter Bisson and Eric Loudenslager at the April 2005 meeting to fill two of these nine open positions.

**Table 1.** Proposed ISRP Term Limits

ISRP	2006	2007	2008	2009
William Liss			Final Term	
John Epifanio			First Term	
Bruce Marcot				
Eric Loudenslager				
Pete Bisson				
Katherine Myers				
Bruce Ward				
Linda Hardesty				
Rich Alldredge				
Colin Levings				
Tom Poe				

#### **Discussion Item: Appointment of eight ISAB members.**

The ISAB Administrative Oversight Panel agreed that the following scientists are eligible for immediate appointment to the ISAB. Council staff is currently contacting each scientist for their ability to participate.

These scientists have confirmed their ability to participate:

1. Stuart Hurlbert, Ph.D., Professor of Biology and Director, Center for Inland Waters at San Diego State University, an expert in limnology and biostatistics.
2. Roland Lamberson, Ph.D., Professor of Mathematics and Director of Environmental Systems Graduate Program at Humboldt State University.

3. Colin Levings, Ph.D., Research Scientist and Past Section Head Marine Environment and Habitat Science Division, Department of Fisheries and Oceans. Canada. He has agreed to serve on the ISRP and ISAB.
4. Thomas P. Poe, M.S., Consulting Fisheries Scientist, an expert in behavioral ecology of fishes, formerly with the U.S. Geological Survey. He has agreed to serve on the ISRP and ISAB.
5. Peter Smouse, Ph.D., Professor of Ecology, Evolution, and Natural Resources at Rutgers University, an expert in biometrics and population theory.

In addition to the five scientists that have agreed to serve, the ISAB is pursuing the appointment of three of the following scientists. The first three are being offered appointments first, the second set are alternates. Council staff hopes to have resolution on these appointees by the June 15<sup>th</sup> Council meeting.

6. Michael Healy, Ph.D., Professor of Earth and Ocean Sciences at the University of British Columbia, an expert in fisheries ecology and resource management science.
7. David Montgomery, Ph.D., Professor of Geomorphology at the University of Washington. Author of *King of Fish: The Thousand-Year Run of Salmon*, 2004.
8. William Pearcy, Ph.D., Professor Emeritus of Oceanography at Oregon State University.

Alternates:

- Rollin Hotchkiss, Ph.D., Associate Professor of Civil and Environmental Engineering and Director, Albrook Hydraulics Laboratory at Washington State University.
- Mary Powers, Professor of Integrative Biology at the University of California, Berkeley, an expert in river food webs.
- Eric Taylor, Ph.D., Professor of Zoology and Associate Director, Biodiversity Research Center at the University of British Columbia, an expert in molecular population genetics and ecology, biostatistics, and zoogeography.
- Chris Wood, Ph.D., Head, Conservation Biology Section, Department of Fisheries and Oceans, Canada, an expert in genetics and ecology of Pacific salmon and other marine fish.

These potential appointees will join the three current members to fill all eleven positions on the ISAB:

9. Robert Bilby, Ph.D., Ecologist at Weyerhaeuser Company, an expert in riparian ecology.
10. Susan Hanna, Ph.D., Professor of Agriculture and Resource Economics at Oregon State University (also an IEAB member).
11. Nancy Huntly, Ph.D., Professor of Wildlife Biology at Idaho State University.

The ISAB members that have served full terms and are leaving the ISAB are Peter Bisson, Charles Coutant, Daniel Goodman, Eric Loudenslager, Lyman McDonald, David Philipp, and Brian Riddell.

**Table 2.** Recommended ISRP and ISAB appointees and alternates, showing expertise coverage between the groups.

<b>ISRP</b>	<b>ISAB</b>
<b>Multiple Expertise</b>	
1 Kate Myers University of Washington	1 Mike Healy University of British Columbia
<b>Habitat</b>	
Remaining ISRP: Pete Bisson (tributary habitat, May 2008), Bill Liss (June 2007)	Remaining ISAB: Bob Bilby (tributary habitat, October 2007)
2 Bruce Ward University of British Columbia	2 Dave Montgomery University of Washington
<b>Mainstem/Fish Passage</b>	
3 Tom Poe Consultant, former USGS	3 Tom Poe
	Alt. Rollin Hotchkiss Washington State University
<b>Ocean/Estuary</b>	
4 Colin Levings Canada, Department of Fisheries and Oceans (See Kate Myers)	4 Colin Levings
	5 William Percy Oregon State University
<b>Hatcheries/Genetics</b>	
Remaining ISRP: John Epifanio (genetics, February 2007 - 1st term), Eric Loudenslager (hatcheries, May 2008 - 1st term)	6 Peter Smouse Rutgers University
Alt. Jeffrey Olsen USFWS, Alaska	Alt. Eric Taylor University of British Columbia
Alt. Chris Wood Canada, DFO	Alt. Chris Wood Canada, DFO
<b>Wildlife</b>	
5 Linda Hardesty Washington State University	Remaining ISAB: Nancy Huntly (June 2007 - 1st term)
6 Bruce Marcot US Geological Survey, Corvallis	
<b>Modeling/Statistics</b>	
7 Rich Alldredge Washington State University	7 Roland Lamberson Humboldt State University
	8 Stuart Hurlbert San Diego State University
<b>Socio-economics</b>	
(Use PRG members)	Remaining ISAB: Susan Hanna (October 2007)
<b>Harvest</b>	
(See Kate Myers)	Remaining ISAB: Susan Hanna (management process)



## **Action 2. Appointment of 42 scientists to the ISRP's Peer Review Group pool**

Council staff recommends that the scientists listed below be appointed to the ISRP's Peer Review Group. These scientists would bolster the ISRP's expertise and workforce and thus ability to participate in large-scale reviews such as annual project reviews. The scientists include the departing ISAB and ISRP members and those nominated and considered in the current ISRP and ISAB member selection process. The National Research Council did not develop a list of recommended scientists for the Peer Review Groups. As in the past, they decided not to take an active role in the appointment of the Peer Review Groups and felt that this was better handled as a matter between the ISRP and the Council. These appointees would join the current pool of over 100 potential Peer Review Group reviewers (see Table 4). This large number of potential Peer Review Group is needed because significant numbers of reviewers are often needed on short notice to participate in time-intensive reviews. In addition, some of these scientists, at times, propose or have BPA funded projects, which constitutes a conflict of interest barring their participation in reviews.

The following 42 scientists are recommended for appointment to the ISRP Peer Review Group pool:

Departing ISRP and ISAB members: Charles Coutant, Susan Hanna, Nancy Huntly, Daniel Goodman, Lyman McDonald, Brian Riddell, William Smoker, Richard Whitney, and Richard Williams.

**Table 3.** Additional recommended Peer Review Group appointees:

<b>Name</b>	<b>Affiliation</b>	<b>Expertise</b>
Brian Allee	Director of Sea Grant, University of Alaska	Fisheries, Columbia River Management
Paul Anders	Consultant, SP Cramer and Associates	Aquatic ecology
Loveday Conquest	University of Washington	Bio-statistics
Lisa Eby	University of Montana	Aquatic ecology, estuary
John Gardiner	Consultant	Watershed management
Alex Haro	US Geological Survey	Aquatic ecologist
Mike Healy	University of British Columbia	Fisheries ecology, resource management
David Heller	US Forest Service	Fisheries ecology
Rollin Hotchkiss	Washington State University	Fish Passage
Stuart Hurlbert	San Diego State University	Inland water ecology, statistics
David H. Johnson	Smithsonian	Wildlife, monitoring and evaluation
Ernest Keeley	Idaho State University	Fisheries, resident trout
Roland Lamberson	Humboldt State University	Modeling and mathematics
Larry Lestelle	Consultant	Fisheries, habitat, modeling
R. Scott Lutz	University of Wisconsin-Madison	Wildlife ecology
Bruce Marcot	USFS	Wildlife, modeling
Robert McKelvey	Consultant, formerly University of Montana	Modeling, international fisheries
Karen Mock	Utah State University	Conservation biology, genetics
David Montgomery	University of Washington	Geomorphologist

Jeffrey Olsen	US Fish and Wildlife Service -AK	Hatchery, genetics
William S Platts	Consultant	Fisheries
LeRoy Poff	Colorado State University	Stream ecologist
Derek Poone	USEPA	Salmon ecologist
Steve Rainey	Consultant, retired NOAA Fisheries	Fish passage, engineering
Steve Ralph	Consultant, formerly with USEPA	Aquatic ecologist, M&E
Mike Schiewe	Consultant, retired NOAA Fisheries	Fisheries, hydro
Clint Shock	OSU extension service	Habitat, planning
Peter Smouse	Rutgers University	Genetics and statistics
Eric Taylor	University of British Columbia	Fisheries genetics
Steve Vigg	Consultant, formerly with BPA	Fisheries, limnology, conservation enforcement
Don Weitkamp	Parametrix	Fisheries, water quality
Chris Wood	Canada, Department of Fisheries and Oceans	Fisheries genetics
Chris Zimmerman	USGS	Fisheries, marine and freshwater ecology

Resumes for the scientists listed above are available on request.

**Table 4.** Current Peer Review Group Pool of Scientists available for ad hoc service on ISRP reviews.

<b>PRG Member</b>	<b>Affiliation</b>	<b>Served as a Reviewer</b>
Milo Adkinson	University of AK, Juneau	
Rich Alldredge	Washington State University	x
Jay Barlow	NMFS, SWFSC, La Jolla	
Bob Beschta	Oregon State University	
Robert Bilby	Weyerhaeuser	x
Pete Bisson	USFS (ISAB Member)	ISRP
Ernie Brannon	University of Idaho	
Carl Burger	USFWS	
Glen Cada	Oak Ridge National Laboratories	x
Donald Chapman	Consultant	
Gary Chapman	Ex-OSU, Consultant	
Errol Claire	Consultant, Canyon Mountain Technical Services	
Blair Couti	USFWS	
Douglas Crowe	Consultant	x
Ken Cummins	Consultant	
Ken Currens	NW Indian Fisheries Commission	x
Bert Cushing	Battelle	
Peter Delaney	Department of Fisheries and Ocean, Vancouver, BC	x
David S. Dobkin	High Desert Ecological Research Institute	
Wes Ebel	Consultant	
Daniel Edge	Oregon State University	
Wayne Elmore	BLM	
John Emlen	National Biological Service (retired), Seattle	
John M. Epifanio	Illinois Natural History Survey	ISRP
Kurt Fausch	Colorado State University	

<b>PRG Member</b>	<b>Affiliation</b>	<b>Served as a Reviewer</b>
Robert Francis	University of Washington	x
Christopher Frissell	Pacific Rivers	
Albert Giorgi	Consultant, Bioanalysts	
Stanley Gregory	Oregon State University	x
Robert Gresswell	Northwest Biological Science Center, USGS	x
Jack Griffith	Consultant, ex-Idaho State University	x
Nancy Grimm	Arizona State University	
James Hall	Oregon State University	x
David Hankin	Humboldt State University	x
Linda Hardesty	Washington State University	x
Steve Hare	International Pacific Halibut Commission	
Brent Hargreaves	Pacific Biological Station	x
Albert Hastings	UC-Davis	
Gene Helfman	University of Georgia	
Ray Hilborn	University of Washington	
Robert Hughes	Oregon State University	
Daniel Huppert	University of Washington, (IEAB member)	
John Jensen	Nanaimo Biological Station	
Ann Kapuscinski	University of Minnesota	
Jim Karr	University of Washington	x
Boone Kaufman	Oregon State University	
Wim Kemmerer	Romberg Center, SFSU CA	
James Kitchell	University of Wisconsin	
Robert Lackey	USEPA	
Robb Leary	University of Montana	x
Daniel Lee	USFS	
Kai Lee	Williams College	
Hiram Li	Oregon State University	x
Jim Lichatowich	Consultant	x
Eric Loudenslager	Humboldt State University	ISRP
Donald Martin	EPA	
Steve Mathews	Consultant, Ex- University of WA	
Bonnie McCay	Cook College, Rutgers University	
Jack McIntyre	Consultant	x
Kevin McKelvey	USFS, Missoula, MT	
Judith L. Meyer	University of Georgia, Institute of Ecology	
Wayne Minshall	Idaho State University	
Phillip Mundy	Exxon Valdez Oil Spill Trustee Council	x
Ransom Myers	Dalhousie University, Nova Scotia	
Robert Naiman	University of Washington	
Willa Nelsen	USFWS	
Ken Newman	University of Idaho	
Jim Newton	Consultant, Ex-ODFW	
Tom Nickelson	ODFW	
Reed Noss	Oregon State University	
David Patton	Northern Arizona University	
William Percy	Oregon State University	
David Philipp	Illinois Natural History Survey (ISAB Member)	x
John Pizzimenti	Consultant	x
Daniel Pletcher	University of Montana	x

<b>PRG Member</b>	<b>Affiliation</b>	<b>Served as a Reviewer</b>
Patrick Poe	ex-BPA	
Tom Poe	USGS Retired	x
Kathy Pringle	University of Georgia, Institute of Ecology	
Donald Proebstel	Colorado State University	
Thomas Quinn	University of Washington	x
Peter Raimondi	University of CA Santa Cruz	
Paul Reimers	ODFW	
Reginald Reisenbichler	Northwest Biological Science Center, USGS	
Jonathan Rhoades	CRITFC	
Bruce Rieman	USFS, Boise	
Larry Riggs	Consultant	
Rick Routledge	Simon Fraser University	
Jennifer Ruesink	University of Washington	
Dennis Scarnecchia	University of Idaho	x
Daniel Schindler	University of Washington	
Isaac Schlosser	University of North Dakota	
Carl Schwarz	Simon Fraser University	
Andrew Shelton	University of Montana	x
Brian Shuter	Ontario Ministry	
Si Simenstead	University of Washington	x
Courtland Smith	Oregon State University	
Brian Spence	Consultant	
Alan Springer	University of Alaska	x
Greg Steer	DFO Enhancement, Vancouver	
Deanna Stouder	USFS, Supervisor	
Gilbert Sylvia	Hatfield Marine Science Center, OSU	x
Russell Thurow	USFS, Intermountain Research Station	
Scott Urquhart	Oregon State University	x
Webb Van Winkle	Oak Ridge National Laboratories	
Harry Wagner	Consultant	
Carl Walters	University of British Columbia	
Bruce Ward	University of British Columbia	x
Dan Ware	Fisheries and Oceans Canada	
Ray White	Consultant, Trout Habitat Specialists	x
Robert White	Montana State University	x
Cindy Deacons Williams	Consultant	
Jack Williams	USFS, Boise National Forest	x
Robert Wissmar	University of Washington	
Kenneth L. Witty	Consultant	

The following scientists have been removed from the list because they either are receiving ongoing BPA funding or work for an agency that receives a significant portion of its funding from BPA: David Bennett, Daniel Bottom, Ed Bowles, Peter Goodwin, Dale McCullough, Phillip Roger, and David Seiler. Some of the scientists remaining on the list have current conflicts of interests that prevent their participation in ISRP reviews, but those conflicts constitute a small or temporary aspect of their work and their eligibility may change in the near future (e.g., Si Simenstead participates in a BPA funded estuary study).

# THE NATIONAL ACADEMIES

*Advisers to the Nation on Science, Engineering, and Medicine*

National Academy of Sciences  
Executive Office

2101 Constitution Avenue, NW  
Washington, DC 20418  
Phone: 202-334-3000  
Fax: 202-334-493  
E-mail: bcolglaz@nas.edu

May 23, 2005

**To:** Melinda Eden, Chair, Northwest Power and Conservation Council  
Olney Patt, Jr., Executive Director, Columbia River Inter-Tribal Fish Commission  
Usha Varanasi, Director, National Marine Fisheries Northwest Fisheries Science Center  
D. Robert Lohn, Regional Administrator, National Marine Fisheries Service

**From:** E. William Colglazier, Executive Officer

**CC:** David Policansky

**Ref:** Nomination of Candidates to the ISAB and ISRP

At the request of the Northwest Power and Conservation Council ("the Council"), the National Marine Fisheries Service, and the Columbia River Inter-Tribal Fish Commission, the National Research Council's Board on Environmental Studies and Toxicology is pleased to suggest nominees for potential appointment to the Independent Scientific Advisory Board (ISAB) and Independent Scientific Review Panel (ISRP). Dr. David Policansky of the NRC's Board on Environmental Studies and Toxicology sought the advice of independent experts, including Charles Coutant, John Magnuson, and Daniel Schindler, to help evaluate potential nominees. The National Research Council is submitting a list of the names of 52 scientists from which ISAB and ISRP members can usefully be appointed. Thirty-four are new recommendations from the list of 76 names provided; the additional 18 are recommendations the Research Council has made previously.

The Research Council understands that the Council appoints ISRP members, while the Council, the National Marine Fisheries Service, and the Columbia River Indian Tribes appoint ISAB members. Rather than submit nominees for the ISRP and ISAB in separate memos, we suggest that the selection process for ISAB and ISRP members should be closely coordinated to help maintain the strong collaborative relationship the ISAB and ISRP have formed over the past eight years.

The Research Council was asked to create a very robust pool of ISRP and ISAB candidates that is sufficient in numbers and breadth of expertise to fill ISRP and ISAB vacancies over the next several years. Within this pool of candidates, all of whom are well qualified to serve, we were

asked to identify the top two or three candidates and a set of alternates for each area of expertise needed on the ISRP and ISAB. As has occurred with the past six selection processes, the NRC was encouraged to provide advice on member terms and succession, expertise needed, group direction, and other relevant issues.

The ISAB and ISRP governing documents call for membership to include expertise in the following areas: anadromous and resident fish ecology, statistics, modeling, wildlife ecology, genetics, fisheries, fish passage/bioengineering, fish husbandry, ocean and estuary ecology, geomorphology, and socio-economics. Pacific Northwest scientists with expertise in Columbia River anadromous fish and non-anadromous fish must be included. Previous NRC selections have emphasized the importance of a multi-disciplinary approach, and, in fact, the ISAB and ISRP's multi-disciplinary composition has been critical to the groups' success and ability to cover the wide spectrum of issues, plans, programs, and proposals assigned for the groups to evaluate. The Research Council continues to stress the importance of the social sciences, ethnic and gender diversity in membership, the importance of large system drivers, and cross-pollination with other broad-scale ecosystem recovery efforts, such as those with Atlantic salmon and the successful Great Lakes stocks of introduced Pacific salmon.

The recommended list is provided in the table below organized by expertise. The evaluations were based on biographical and bibliographic information concerning all the persons who were nominated, and reconsidered individuals who had been recommended previously by the Research Council for inclusion in the current pool. Our recommendations under some topical areas, such as harvest and social sciences are few, because few nominees were submitted in those areas. In some cases, the Research Council provided additional nominees to augment the pool of candidates under a specific category of expertise. Overall, the nominees submitted for consideration were highly qualified and the areas of expertise required on the groups are adequately covered. Expertise can rarely be pigeonholed in narrow categories, so many of the nominees have broad backgrounds and can cover multiple disciplines.

The large turnover on the ISRP and ISAB — eight ISAB and seven ISRP positions of the eleven on each board — creates a challenge of balancing the benefits of an influx of new ideas and innovative thinking with the potential loss of institutional knowledge. This balance was considered in developing the recommended list. Many of the top candidates recommended are Pacific Northwest scientists who have participated in independent scientific groups on Columbia River Basin salmon issues, and several have participated in ISRP and ISAB reviews. There are also sufficient candidates who can bring fresh perspectives from outside the basin and beyond fisheries. To also ensure the transition is effective, the Research Council understands the ISAB and ISRP plan to use members who have recently left those bodies extensively as ad hoc and Peer Review Group members. In addition, the Research Council agrees with the ISAB and ISRP coordinators that ex-members be reappointable after absences of preferably three years.

To avoid such a large-scale shift of membership at one time, we recommend that staggered terms (2, 3, or 4 years) be established and maintained to ensure a regular infusion of new members with little disruption to ongoing operation of the ISRP and ISAB. The Council staff has queried all nominees for their interest in serving, if selected.

As noted in the table, some potential members are not available now, but would be in a year or so. These nominees could be ready to fill slots vacated at that time. The list below should amply fill the appointment needs of the ISAB and ISRP for the next 5-6 years, although it might be necessary to consider a new set of nominees for specific areas of expertise, particularly harvest and social sciences, much sooner.

The National Research Council is pleased to have been of service in this manner.

Attachment: Table of Recommendations - from Excel table organized by expertise.

## Table of Recommended ISAB and ISRP Candidates

This table includes candidates who were nominated for this screening process and who have confirmed their present interest in serving on the ISRP and ISAB, and individuals the NRC recommended previously and again in this process (the latter candidates' interest and availability have not been confirmed; they are identified with an asterisk). For each expertise category where applicable, the remaining ISAB and ISRP members are noted, with term expiration dates. Candidates in italics should be considered first for appointment, because of the match of their expertise to the needs of the ISAB or ISRP, because of their experience, or because of other special qualities. Recommendations for ISAB and ISRP are provided separately because the activities of those two bodies differ. All recommended candidates are suitable for service as PRG members, selected on an ad hoc basis for specific reviews.

Name	Affiliation	ISAB	ISRP	Comment
<b>Multiple Expertise</b>				
<i>Mike Healy</i>	University of British Columbia	x	x	
<i>Thomas Quinn</i>	University of Washington	x		
<i>Kate Myers</i>	University of Washington	x	x	Harvest and oceans
<i>Don Chapman*</i>	Consultant	x	x	
<i>Ray Hilborn*</i>	University of Washington	x	x	
<b>Habitat</b>				
Remaining ISAB: Bob Bilby (tributary habitat, October 2007)				
Remaining ISRP: Pete Bisson (tributary habitat, May 2008), Bill Liss (June 2007)				
<i>Hiram Li</i>	Oregon State University	x	x	
<i>Dave Montgomery</i>	University of Washington	x	x	
Chris Frissell	Pacific Rivers, Montana	x		
Clint Shock	Oregon State University extension service		x	
Bruce Ward	University of British Columbia	x	x	
Chris Zimmerman	US Geological Survey, Alaska		x	
<i>LeRoy Poff</i>	Colorado State University	x	x	Not available until 2007
Lisa Eby	University of Montana		x	Not available until 2006 or 2007.



Name	Affiliation	ISAB	ISRP	Comment
Ernest Keeley	Idaho State University	x	x	Not available until 2006.
Bob Beschta*	Oregon State University emeritus		x	
Nancy Grimm*	Arizona State University	x	x	
James Kitchell*	University of Wisconsin	x	x	
Judith L. Meyer*	University of Georgia	x	x	
Catherine Pringle*	University of Georgia	x	x	
William Lewis*	University of Colorado	x	x	
Robert Naiman*	University of Washington	x	x	
Peter Moyle*	University of California-Davis	x	x	
Mary Power*	University of California-Berkeley	x	x	
<b>Mainstem/Fish Passage</b>				
<i>Rollin Hotchkiss</i>	Washington State University	x	x	
<i>Tom Poe</i>	Consultant, ex-US Geological Survey	x	x	
Glenn Cada	Oak Ridge National Lab, Tennessee	x	x	
Dennis Scarnecchia	University of Idaho	x	x	
<i>Alex Haro</i>	US Geological Survey, Massachusetts	x	x	Not available until 2006
Mike Schiewe	Consultant, ex-NOAA Fisheries, ex-ISAB ex officio	x	x	Recommend wait a few years.
Richard Whitney	Consultant, ex-University of Washington, ex-ISRP and ISAB	x	NA	Recommend wait a few years.
<b>Ocean/Estuary</b>				
<i>Colin Levings</i>	Canada, Department of Fisheries and Oceans	x	x	
<i>William Percy</i>	Oregon State University	x	x	
Eileen Hofmann*	Old Dominion University		x	

Name	Affiliation	ISAB	ISRP	Comment
<b>Hatcheries/Genetics</b>				
Remaining ISRP: John Epifanio (genetics, February 2007 - 1st term), Eric Loudenslager (hatcheries, May 2008 - 1st term)				
<i>Peter Smouse</i>	Rutgers University	x	x	
<i>Eric Taylor</i>	University of British Columbia	x	x	
<i>Chris Wood</i>	Canada, Department of Fisheries and Oceans	x	x	
Jeffrey Olsen	US Fish and Wildlife Service, Alaska		x	ISRP now, potential ISAB
Rick Williams	Consultant, ex-ISRP and ISAB	x	NA	Recommend wait a few years.
<b>Wildlife</b>				
Remaining ISAB: Nancy Huntly (June 2007 - 1st term)				
<i>Linda Hardesty</i>	Washington State University	x	x	
Charles Henny	US Geological Survey, Corvallis	x	x	
Bruce Marcot	US Forest Service, Portland	x	x	
Mary Price*	University of California-Riverside emeritus	x	x	
Stanley Temple*	University of Wisconsin	x	x	
John Wiens*	Colorado State University	x	x	
<b>Modeling/Statistics</b>				
<i>Stuart Hurlbert</i>	San Diego State University	x	x	
<i>Roland Lamberson</i>	Humboldt State University	x	x	
<i>Rich Alldredge</i>	Washington State University		x	Also potential ISAB
Robert McKelvey	Consultant, ex-University of Montana	x	x	Not available until 2006 or 2007.
<i>Loveday Conquest*</i>	University of Washington	x	x	

Name	Affiliation	ISAB	ISRP	Comment
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### **Socio-economics**

Remaining ISAB: Susan Hanna (October 2007)

<i>Daniel Huppert</i>	University of Washington	x	x	
Bonnie McCay*	Rutgers University	x	x	
Michael Orbach*	Duke University	x	x	

### **Harvest**

Remaining ISAB: Susan Hanna (October 2007; management process)

See Candidates with Multiple Expertise.

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