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Oregon

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Oregon

January 31, 2008

MEMORANDUM

TO: Council Members

FROM: Erik Merrill, ISAB/ISRP Coordinator, and Jim Ruff, ISAB Ex Officio

SUBJECT: Appointment of Dr. Robert Naiman to the ISAB

DISCUSSION ITEM

Staff asks that the Council discuss the appointment of Dr. Robert Naiman to the Independent Scientific Advisory Board (ISAB). Council discussion should assist Chairman Booth in his capacity as the Council's representative on the ISAB's Administrative Oversight Panel, which will make the final ISAB appointment decision.

SIGNIFICANCE

The ISAB continues to provide the Council with independent reviews of critical scientific issues facing Columbia River Basin fish and wildlife mitigation and recovery efforts. With the addition of Naiman to the current set of ISAB members, the ISAB should maintain its ability to effectively review the science pertaining to topics likely to arise in the next few years such as regional research, monitoring, and evaluation plan development; mainstem fish passage modeling; NOAA recovery planning; and the Council's program amendments.

BUDGETARY IMPACTS

The ISAB operates on an annual budget, independent of the Council's budget, funded by the Bonneville Power Administration through the Fish and Wildlife Program. No additional funds are requested.

BACKGROUND

Independent Scientific Advisory Board

Unlike the Independent Scientific Review Panel (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. The ISAB is governed by an Administrative Oversight Panel consisting of the Council Chair; a senior representative of the Columbia Basin Indian Tribes (Olney Patt Jr.); and the Director of NOAA's Northwest Fisheries Science Center (Usha Varanasi) and the Regional Administrator of the National Marine Fisheries Service (D. Robert Lohn) as joint participants. The Oversight Panel's primary responsibilities are to appoint ISAB members and approve the ISAB's annual work plan.

The Appointment Process

The ISAB and ISRP appointments process follows three steps, of which the first two are complete for this appointment decision. First, in 2005 the Council, NOAA Fisheries, and Columbia Basin Indian Tribes invited the region to nominate scientists to be considered for service on the ISAB and/or the ISRP. Second, the National Academy of Sciences screened the list of nominees and selected a pool of 52 highly qualified ISAB and ISRP nominees. In a May 23, 2005 letter,¹ the National Academy of Sciences provided their recommendations to the Council and the ISAB Administrative Oversight Panel. Third, based on the list of recommendations, the ISAB Oversight Panel appoints ISAB members. The Council appoints ISRP members.

ANALYSIS

Appointment of Dr. Robert Naiman

The ISAB's Ex Officio members and coordinators representing the Council, NOAA Fisheries, and Columbia River Indian Tribes recommend that the ISAB Oversight Panel appoint Dr. Robert Naiman to the ISAB. He is a professor in the College of Ocean and Fishery Sciences at the University of Washington and is an expert in stream ecology (see his full curriculum vitae attached below). This recommendation is based on Naiman's expertise, outstanding qualifications, ability to serve, lack of conflicts, and inclusion in the National Academy's pool of candidates. In sum, Naiman has been rigorously evaluated for his scientific qualifications by an independent national body and for his ability to contribute effectively as an ISAB member by the groups' administrators.

Naiman is among the 52 scientists recommended by the National Academy of Sciences. All the scientists recommended meet the ISAB and ISRP membership criteria, 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

¹ The National Academy of Sciences letter is available at www.nwcouncil.org/fw/isab/nrc.pdf

integrity, independence and objectivity; ability to forge creative solutions to complex problems; and interest in and ability to work effectively in an interdisciplinary setting. ISAB and ISRP 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. Naiman has an exceptional record of scientific accomplishments and has a reputation for being a productive and influential member of scientific committees.

In addition to the basic qualifications, 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. Naiman understands the ISAB's workload and has agreed to serve if appointed. He has confirmed that he does not have any conflicts of interest (BPA or Fish and Wildlife Program funding) or any public statements that could create the perception of undue bias that could jeopardize the ISAB's reputation for independence.

The ISAB and ISRP's governing documents call for membership to include expertise in 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. The current ISAB members cover this wide range of disciplines well, but expertise could be augmented in several areas. Specifically, the ISAB's Ex Officios and coordinators considered likely assignments over the next three years and identified that Naiman's expertise in stream ecology to be of highest priority for this current open position. Five other highly qualified scientists with expertise in stream ecology and habitat restoration were considered along with Naiman, but these scientists were unavailable. Regardless of the others' unavailability, Naiman is a top choice. In addition to stream ecology, the ISAB's range of expertise could be bolstered by adding members with expertise in hydrosystem fish passage, quantitative ecology, harvest, and resource economics.

Future Appointments

In addition to the position that Naiman will potentially fill, a second position recently opened when Dr. Michael Healey confirmed he could not serve his appointed term, and in October 2008 a third position will likely open (see the table of member terms below). For these positions, appointing individuals with expertise in fish passage and quantitative ecology will likely be a priority. The ISAB Ex Officios and coordinators are currently evaluating the National Academy's May 2005 pool for scientists with expertise in these areas. Although the pool likely contains enough high quality scientists to fill this open position and potentially other future appointments, the process to update the National Academy's 2005 pool is underway, and it may be wise to wait until we have an updated pool to fill the final open position on the ISAB.

To prepare for future appointments, last fall the Council, NOAA Fisheries, and the Columbia River Indian Tribes sent a letter to the region requesting nominations by January 31, 2008 for consideration by the National Academy. As of the writing of this memo, about 20 individuals have been nominated for consideration by the National

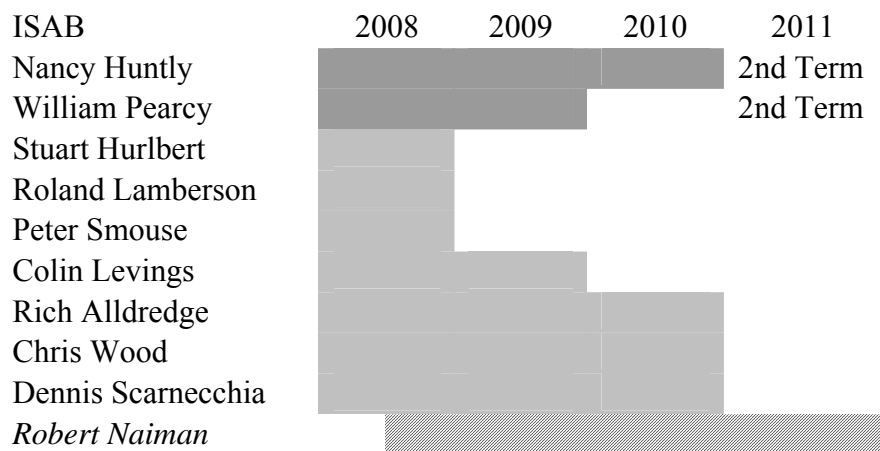
Academy. We hope the National Academy can provide an updated pool by May 2008. In the next month, the ISAB Ex Officios will confer with the Administrative Oversight Panel on a preferred approach to fill the open position.

In the meantime, ISAB ad hoc members will be used to augment the groups' expertise and workforce as needed, for example, on fish passage issues. In addition, recognizing that ISAB membership does not include a socio-economics expert, the ISAB intends to continue and increase its collaboration with the Council's Independent Economic Advisory Board.

Naiman would join the following nine current members to fill ten of the eleven ISAB membership positions:

1. Richard Alldredge, Ph.D., Professor of Statistics at Washington State University. He serves on the ISAB and ISRP.
2. Nancy Huntly, Ph.D., Professor of Wildlife Biology at Idaho State University.
3. Stuart Hurlbert, Ph.D., Professor of Biology and Director, Center for Inland Waters at San Diego State University, an expert in limnology and biostatistics.
4. Roland Lamberson, Ph.D., Professor of Mathematics and Director of Environmental Systems Graduate Program at Humboldt State University.
5. Colin Levings, Ph.D., Scientist Emeritus and Sessional Researcher, Centre for Aquaculture and Environmental Research, Department of Fisheries and Oceans, Canada. He serves on the ISRP and ISAB.
6. William Percy, Ph.D., Professor Emeritus of Oceanography at Oregon State University.
7. Dennis Scarnecchia, Ph. D., Professor of Fish and Wildlife Resources at the University of Idaho, an expert in large river fisheries population dynamics, and salmon, trout and char.
8. Peter Smouse, Ph.D., Professor of Ecology, Evolution, and Natural Resources at Rutgers University, an expert in biometrics and population theory.
9. Chris Wood, Ph.D., Conservation Biology Section Head, Department of Fisheries and Oceans, Canada, an expert in genetics and ecology of Pacific salmon and other marine fish.

Table 1. ISAB member terms and Naiman's potential term



CURRICULUM VITAE

October 2007

NAME: Robert Joseph Naiman
TITLE: Professor
ADDRESS: University of Washington
College of Ocean and Fishery Sciences
Box 355020
Seattle, WA 98195-2100
(206) 685-2025 Fax (206) 685-7471
E-mail: naiman@u.washington.edu

DATE OF BIRTH: July 31, 1947

EDUCATION

B.S. 1969 California State Polytechnic University (Zoology)
M.A. 1971 University of California, Los Angeles (Zoology, Ichthyology)
Ph.D. 1974 Arizona State University (Zoology, Ecosystem Science)

PROFESSIONAL APPOINTMENTS

1988-present Professor, College of Ocean & Fishery Sciences and College of Forest Resources,
University of Washington
1984,1988, Visiting Scientist, Centre d'Ecologie, Centre National de la Recherche
2007 Scientifique, Toulouse, France
2001-2002 Sabbatical Fellow, National Center for Ecological Analysis and Syntheses
(NCEAS), University of California, Santa Barbara and The Ecosystem Center,
Woods Hole, Massachusetts
1988-1996 Director, Center for Streamside Studies, University of Washington
1995 Visiting Professor, University of the Witwatersrand, South Africa
1993- 2000 Faculty Affiliate, Division of Biological Sciences, University of Montana
1985-1988 Director, Center for Water and the Environment, Natural Resources Research
Institute, University of Minnesota
Professor, Department of Fisheries and Wildlife, and Department of Ecology and
Behavioral Biology, University of Minnesota
1978-1985 Director, Matamek Research Program, Woods Hole Oceanographic Institution
1983 Visiting Professor, University of Montana
1977-1978 Assistant Curator, Academy of Natural Sciences of Philadelphia
1976-1977 Research Associate, Oregon State University

1974-1976 Postdoctoral Fellow, Fisheries Research Board of Canada, Pacific Biological Station

PROFESSIONAL ACTIVITIES AND AWARDS

National Research Council (Canada) Postdoctoral Fellowship

Arizona State University Fellowships

Beta Beta Beta Biological Honor Society and Sigma Xi

Kaiser Professor - University of Wisconsin (1995)

Associate Editor, Aquatic Conservation: Marine and Freshwater Ecosystems

Associate Editor, Landscape Ecology

Associate Editor, Ecosystems

Associate Editor, Frontiers in Ecology and the Environment

Distinguished Professor of Ecology - Colorado State University (1997)

Aldo Leopold Leadership Program (1999)

Distinguished Faculty Research Award – University of Washington (2000)

H.B.N. Hynes Lecturer, Canadian River Institute, University of New Brunswick (2004)

PROFESSIONAL SOCIETIES

American Institute of Biological Sciences

Ecological Society of America

LANGUAGES

English, French

RESEARCH INTERESTS

Biophysical processes associated with lotic and riparian ecosystems, watershed management, and the role of animals in shaping ecosystem processes.

GRANTS AND CONTRACTS

During the past 20+ years I have been the Principal Investigator or Co-Principal Investigator on approximately 60 different projects with a total value greater than \$11.0

M. These projects include basic research on ecological systems and applied questions relating to natural resource viability. In addition, I have managed departmental funds in excess of \$6.0 M. Funding sources include:

Centre National de la Recherche Scientifique (France), Tai-Ping Foundation, UNESCO, Environmental Protection Agency, U.S. Department of State, Legislative Commission on Minnesota Resources, U.S. Fish and Wildlife Service, U.S. Forest Service
Minnesota Department of Natural Resources, University of Minnesota, Minnesota Pollution Control Agency, University of Washington, National Science Foundation, Washington Department of Natural Resources, NOAA Sea Grant Program, Woods Hole Oceanographic Institution, Province of Quebec, A.W. Mellon Foundation, Weyerhaeuser Foundation, I.T.T. Rayonier, Simpson Investment Company

CURRENT COMMITTEE AND CONSULTING ACTIVITY

Coastal Rivers Research Consortium (CRRC)

- * Chair, Organizing Committee

DIVERSITAS International (Paris, France)

- * Chair, Freshwater BIODIVERSITY

- * Member, Scientific Advisory Committee

- * Member, U.S. National Committee

UNESCO International Hydrology Programme (Paris, France)

- * Chair, IHP/MAB Ecohydrology Programme

Robert W. Woodruff Foundation - J.W. Jones Ecological Research Center

- * Scientific Advisor

Global Water System Project (GWSP; Bonn, Germany)

- * Member, Executive Committee

- * Member, Scientific Advisory Committee

PAST COMMITTEE AND CONSULTING ACTIVITY

National Science Foundation:

- * Water and Watersheds panel

- * Long-term ecological research advisory panel

- * Ecosystem research advisory panel

- * Various NSF site reviews

- * Coordinating committee and chair – various NSF sponsored workshops

Environmental Protection Agency:

- * Scientific advisor for surface waters program

- * Coordinating Committee - stream ecosystems workshop, groundwater conference

- * Instructor, National Watershed Management Program

- * Watersheds '94 Symposium

Man and the Biosphere Program (UNESCO):

- * Chairman, UNESCO MAB-5 Program, Paris

- * UNESCO MAB-5 Science Advisory Committee, Paris

- * MAB-5 Directorate, U.S. State Department

- * Coordinator, various MAB workshops in France, Austria, and Hungary

- * Chairman, U.S. MAB Temperate Ecosystem Directorate

Centre National de la Recherche Scientifique (France):

- * Chair, Scientific Advisory Committee, Centre d'Ecologie (Toulouse)
- * Co-Chair, World Rivers Conference
- * Co-Chair, Rivers of the Future Conference

Metropolitan Mosquito Control District (Minneapolis):

- * Scientific Advisory Committee

U.S. Forest Service:

- * Copper River delta study, Alaska
- * Riparian Forest Dynamics, Juneau

Ecological Society of America:

- * Corporate Award Committee, Chair
- * Public Affairs Committee
- * Organization and funding of symposia

Ecotrust

- * Science Advisory Board

National Academy of Sciences:

- * Panel member, Global Change
- * Panel member, Federal R & D (water)
- * Panel Member, Coastal Eutrophication
- * Panel Member, Grand Challenges in Environmental Science

Kruger National Park (South Africa)

- * Science Advisor - Rivers Programme

American Rivers

- * Scientific Advisor

International Council of Scientific Unions (ICSU)

- * Committee Member, SCOWAR
- * Chair, SCOWAR
- * DIVERSITAS – Joint Water Project (ESSP)
- * SCOPE – UNEP Geo2005 Yearbook, Mariculture

Tropical Rivers Alliance

- * Member, Scientific Advisory Committee

ADMINISTRATIVE EXPERIENCE

1978-1985 Scientific director of the Woods Hole Oceanographic Institution's Matamek Research Program in Quebec. Developed and administered the scientific program, obtained research grants, coordinated efforts between the Province of Quebec, several universities, and the Institution, and managed a multinational and multilingual staff of up to 35 scientists, technicians and students from North America and Europe.

1985-1988 Director of the Center for Water and the Environment at the University of Minnesota. Coordinated and administered a research staff of up to 45 scientists, technicians, and students with an annual budget of about \$2.0 M. Obtained research funds, prepared departmental budgets, interacted with state legislators, governor and agencies on environmental issues, promoted coordination between Center and private industry, taught and advised graduate students and provided scientific leadership. I reported to the Director of the Natural Resources Research Institute who was appointed by the University Chancellor.

1988-1996 Director of the Center for Streamside Studies in Forestry, Fisheries, and Wildlife at the University of Washington. Coordinated and administered staff of up to 40 scientists, technicians, and students with an annual budget of about \$2.0 M; obtained research funds, prepared departmental budgets; interacted with State and Federal agencies on environmental issues; promoted coordination between the Center and private industry; taught and advised graduate students and provide scientific leadership. I reported to the Dean of the College of Forest Resources and the Dean of the College of Ocean and Fishery Sciences. Recently renamed The Water Center, it functions as a major research component of the University of Washington.

1995 – Present Nearly all of my administrative effort has been directed toward chairing national and international committees on fresh water and in establishing international research programs. In the 1990s I co-chaired a US effort on setting a research agenda for fresh water (Naiman et al. 1995, *The Freshwater Imperative*, Island Press). I also chaired the ICSU Scientific Committee on Water Research (SCOWAR) that identified ecological principles for water resource development (*Environmental Management* 2002, Vol. 30). In 1995, a period of great political change, I was instrumental in obtaining funding and organizing a decade-long international program on riparian ecology in South Africa's Kruger National Park. In recent years, I have chaired committees reviewing the state of the world's freshwater biodiversity (Dudgeon et al. 2005. *Biological Reviews*), detailing an international research program on freshwater biodiversity (Naiman et al. 2006), helping organize an international research program (GWSP) on all aspects of fresh water (Vörösmarty et al. 2004), and am currently re-organizing the research directions of UNESCO's Ecohydrology Programme. As ongoing endeavors, I have been assisting the Robert W. Woodruff Foundation in investing over \$100 Million in ecological research in Georgia and chairing a small consortium (CRRC) of industry, government, and academic scientists investigating coastal rivers in western North America. I have also prepared two textbooks for use in my classes at the University of Washington (Naiman and Bilby 1998, Naiman et al. 2005).

BOOKS AND MONOGRAPHS

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