

## **SAP 4.2 Reviewer Biographies**

**Dennis Ojima**, Heinz Center for Science and Economics.

Dr. Dennis Ojima is currently a Senior Scholar at the H. John III Center for Science, Economics, and the Environment. He is also a Senior Research Scientist of the Natural Resource Ecology Laboratory (NREL) at Colorado State University where he was Interim Director from 2005 to 2006. Dr. Ojima received his BA and Masters Degree in Botany from Pomona College (1975) and the University of Florida (1978), and his PhD from the Rangeland Ecosystem Science Department at Colorado State University in 1987. His current US research contributes to the North American Carbon Project. His research areas include global change effects on ecosystem dynamics and regional climate change assessment for the Central Great Plains, as well as international efforts in Central Asia, Mongolia, and China. His research with the Chinese Academy of Sciences includes development of Regional Carbon Management. Dr. Ojima is also member on the U.S. National SCOPE Committee and member-at-large on the Governing Board of the Ecological Society of America (2005-2007).

**Franklin B. Schwing**, NOAA – NMFS, Southwest Fisheries Science Center

Dr. Franklin B. Schwing is an oceanographer with NOAA National Marine Fisheries Service, and Director of the Southwest Fisheries Science Center's Environmental Research Division. His research interests are in physical oceanography, ocean dynamics of coastal systems, and climate variability and its influence on marine ecosystems and their populations. He is the author of over 100 peer-reviewed scientific publications and has given over 150 presentations and seminars at scientific conferences and public forums. Previously, Dr. Schwing was assigned to the NOAA Climate Office, and served on the Ecosystem Interagency Working Group of the US Climate Change Science Program. He was an Expert and US Government Reviewer for the IPCC 4<sup>th</sup> Climate Assessment. Dr. Schwing is a visiting professor in the Department of Oceanography, Naval Postgraduate School, and is a fellow with the Joint Institute of Marine and Atmospheric Research at the University of Hawaii. He is a member of the NOAA Integrated Ecosystem Assessment (IEA) Priority Area Task Team, NOAA Fisheries and the Environment (FATE) Steering Committee, PISCO Advisory Committee, US GLOBEC Northeast Pacific Program Executive Committee, and PICES Working Group on Potential Implications of Recent Regime Shifts in the North Pacific for Fisheries.

Dr. Schwing has a PhD in Oceanography from Dalhousie University in Halifax, Nova Scotia, and has worked for NOAA since 1989. He was a recipient of the U.S. Department of Commerce Bronze Medal Award, for innovative research incorporating environmental variability into the field of fisheries science, and development of important new climate indices.

**Leigh A. Welling**, Climate Change Coordinator, National Park Service Natural Resource Stewardship and Science

Dr. Welling has been the Climate Change Coordinator for the NPS since October 2007. Her responsibilities include working with national, regional, and park programs and staff to develop and implement strategies for effectively responding to the challenges that climate change

presents to resources management and park operations. Previously, she was Director of the Crown of the Continent Research Learning Center at Glacier National Park for 4.5 years and served as National Coordinator for the 17 existing NPS Research Learning Centers from 2006-2008. She has a PhD and MS in oceanography from Oregon State University and a BA in geology from the University of Colorado, Boulder. Her research focused on using marine microfossils to interpret past climatic variability. Prior to joining the NPS, Dr. Welling was Director of the Project for Multicultural and Interdisciplinary Study and Education (PROMISE) at the University Nevada, Las Vegas from 1997-1999 and was Director of the Northern Great Plains Regional Earth Science Applications Center (RESAC) at the University of North Dakota (UND) from 1999-2002. Both of these programs promoted using state-of-the-art science, technology, and communication strategies to enhance scientific literacy and foster sustainable relations between humans and the environment. While at UND she served as co-chair of the Northern Great Plains sector for the National Assessment on the Impacts of Climate Variability and Change. She also helped establish the Northern Great Plains Center for People and the Environment, where she served as the Center's first Director until joining the NPS in 2003.

**David L. Peterson**, USDA Forest Service, Pacific Northwest Research Station

Dr. David Peterson is a Research Biologist with the U.S. Forest Service Pacific Northwest Research Station and Professor at the University of Washington, Seattle. He received his PhD. from the University of Illinois in 1980, and has worked as a federal research scientist since that time. With primary research interests in fire ecology, mountain ecology, and climate change science, he has published 180 scientific articles and three books. His current research focuses on methods and quantitative guidelines for hazardous fuel treatments in western North America, and he is principal investigator for the Western Mountain Initiative, a scientific consortium focused on climate-change effects in mountain ecosystems.

**Steven McNulty**, Research Ecologist, Southern Global Change Program, USDA Forest Service

Dr. Steven McNulty has served as the US Forest Service Southern Global Change Program Manager on the North Carolina State University campus in Raleigh North Carolina, since 1996. Prior to joining the Southern Global Change Program, he spent five years as a research ecologist at the Coweeta Hydrologic Laboratory. He has B.S., and M.S. degrees in Natural Resources from the University of Wisconsin, and a Ph.D. in Natural Resources from the University of New Hampshire. Dr. McNulty is a landscape ecologist, with an area of focus being regional to continental scale environmental stress impacts on forest ecosystems. He served as a US Congressional Fellow in the 106<sup>th</sup> Congress, and he was the federal chair of the National Assessment of Climate Change Impacts on US Forests. Dr. McNulty is currently the US chair of the United States China Carbon Consortium, and he has authored or co-authored over 100 papers in the area of environmental stress impacts on forest ecosystems.

**John P. Smol**, Professor, Queen's University, Kingston, Ontario, Canada

Dr. John Smol FRSC, and holder of the **Canada Research Chair in Environmental Change**, is the founding editor of the [\*Journal of Paleolimnology\*](#). He received his B.Sc. in Marine Biology

from McGill University in Montreal, Canada in 1977, and an M.Sc. in limnology from Brock University (St. Catharines, Ontario) in 1979. His Ph.D. in 1982 is from Queen's University in Kingston, Ontario. Following post-doctoral work in the High Arctic with the Geological Survey of Canada, he became a faculty member at Queen's University in 1984. He was promoted to Full Professor in 1991. He holds and has held adjunct appointments in Canada and the United States. Dr. Smol co-directs the [Paleoecological Environmental Assessment and Research Laboratory \(PEARL\)](#) at Queen's University, a group of about 30 paleolimnologists working throughout the world on a variety of limnological and paleoecological problems. He has about 350 journal publications and book chapters to his credit. He has edited and authored 16 books, including one [textbook](#). [PEARL](#)'s paleolimnological work was used extensively in the acid rain debates, and Dr. Smol received a citation from the US government for "outstanding contributions" to the NAPAP program. He was awarded an N.S.E.R.C. E.W.R. Steacie Memorial Fellowship in 1990. In 1992 he was awarded the Botanical Society of America [Darbaker Prize](#), and in 1993 he, along with his lab, was presented with the North American Lake Management Society (NALMS) Research Award. In 1993 he was also awarded the National Research Council's [Steacie Prize](#), as Canada's most outstanding young scientist or engineer. In addition to numerous other awards, in 2007, Dr. Smol was presented with the [G. Evelyn Hutchinson Award](#) from the [American Society of Limnology and Oceanography](#) "For outstanding contributions and leadership in bridging paleolimnology with limnology, ecology, and the environmental sciences, as well as his seminal work on polar limnology and environmental change." The University of Helsinki conferred John with an honorary PhD in May 2007. Later that year, he was awarded the T. Geoffrey Flynn Advancement Champion Award, Queen's University's highest award for service, for his scientific outreach and education work with the public.

In addition to his work with the [Journal of Paleolimnology](#), in 2004 Dr. Smol became Editor-in-Chief of the National Research Council of Canada's [Environmental Reviews](#), is the series founding co-editor of the book series [Developments in Paleoenvironmental Research](#), and is also on the editorial boards of several other journals.

**Ronald P. Neilson**, Bioclimatologist, US Forest Service, Professor (Courtesy), Oregon State University

Ronald P. Neilson is a BioClimatologist with the USDA Forest Service, Pacific Northwest Research Station and a Professor (Courtesy) with the Department of Botany and Plant Pathology and the Department of Forest Science at Oregon State University. Dr. Neilson has focused on the theory, mechanisms and simulation of vegetation distribution for nearly three decades. He received the Cooper Award from the Ecological Society of America for his research on oak distribution in the Rocky Mountain region. Dr. Neilson's MAPSS biogeography model and MC1 dynamic general vegetation model have contributed to national and global assessments by the Intergovernmental Panel on Climate Change (IPCC) and the U.S. Global Change Research Program and to *Our Changing Planet*, the formal description of the U.S. Global Change Research Program. Dr. Neilson was the lead author for the Forest sector for the IPCC's special report on *The Regional Impacts of Climate Change* and the convening lead author for an Annex to the Special Report on simulations of global vegetation re-distribution under climate change. Dr. Neilson's work with the IPCC contributed to their share of the 2007 Nobel Peace Prize,

along with former Vice-President, Al Gore. His current work extends into Earth System Modeling, Landscape System Modeling and large-scale fire forecasting. Dr. Neilson received the Forest Service Chief's 1999 Honor Award for Superior Science and the USDA Secretary's Honor Award for Superior Service in 2003. He received a BA in 1971 from the University of Oregon, an MS in 1975 from Portland State University, and a Ph.D. in 1981 from the University of Utah.

### **Linda A. Joyce**

Dr. Linda Joyce is a quantitative ecologist with the Rocky Mountain Research Station, USDA Forest Service. Her primary research responsibility is to describe the effects of climate change on forest and rangeland resources at multiple scales. This includes quantifying changes in vegetation pattern, productivity, carbon sequestration, and timber supply. She has a background in mathematics (B.S., Grand Valley State College, MI), environmental science (M.S., Miami University, OH), and systems ecology (Ph.D., Colorado State University). Before her involvement in climate change research, Dr. Joyce was an expert on ecosystem monitoring, where she served on a National Academy of Science Committee on Rangeland Health.