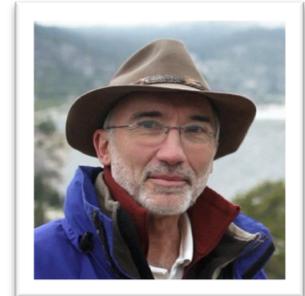


Water and Fire: Impacts of Climate Change
April 10-11, 2016 • California State University-Sacramento
PRESENTER BIOGRAPHIES

Roger Bales, Ph.D.

Policy Position Paper: *Foundations for California's Water Security in a Changing Climate*

Dr. Bales is Director of the University of California Water Security and Sustainability Research Initiative, and Director of the Sierra Nevada Research Institute (SNRI). A Distinguished Professor of Engineering and founding faculty member at UC-Merced, Dr. Bales also is a researcher in the Center for Information Technology Research in the Interest of Society (CITRIS). Active in water- and climate-related research for over 30 years, Dr. Bales' current focus is on building the knowledge base about water issues in California, with the goal of encouraging policies that adapt water supplies, ecosystems, and the economy to the impacts of climate warming. A fellow in the American Geophysical Union, the American Meteorological Society, and the American Association for the Advancement of Science, he has published well-cited papers in multiple disciplines, including hydrology, glaciology, paleoclimate, atmospheric chemistry, geochemistry and environmental engineering, and has led the development of regional, national and international measurement programs that increase scientific understanding of climate change.



Jon E. Keeley, Ph.D.

Policy Position Paper: *The Future of California Wildfires: Sorting out Global Change Impacts*

Dr. Keeley is a Senior Scientist (ST) for the U.S. Geological Survey, an adjunct professor at the University of California Los Angeles, and former director of the ecology program for the National Science Foundation. His research focuses on the ecological impacts and history of wildfires in Mediterranean-climate ecosystems, particularly how climate and other global changes will impact future fire regimes. The senior author of "Fire in Mediterranean Climate Ecosystems: Ecology, Evolution and Management" (Cambridge University Press, 2012), Dr. Keeley has more than 350 publications in national and international scientific journals and books, and has garnered more than 15,000 citations. Awarded a Guggenheim Fellowship in 1985, he is a Fellow of the Ecological Society of America, and the Southern California Academy of Sciences. Dr. Keeley has served on the Los Angeles County Department of Regional Planning Environmental Review Board, and the State of California Natural Communities Conservation Program Board of Scientific Advisors.



Christina Swanson, Ph.D.

Policy Position Paper: *Fish, Water, and Climate Change*

Dr. Swanson is Director of the Science Center at the Natural Resources Defense Council (NRDC), where she works to expand the organization's scientific capabilities and support its legal and policy work across a range of environmental, public health and sustainable management issues. She is an expert in fish biology, aquatic ecosystem protection and restoration, ecological indicators and water resource management. Much of her work has been in California, but she has also worked and conducted research in Hawaii and, as a Fulbright Scholar, in the Philippines. Prior to joining NRDC in 2011, Dr. Swanson worked with The Bay Institute, serving as the organization's fisheries scientist and, from 2008-2011, as executive director and chief scientist. The author or co-author of more than 20 peer-reviewed articles and numerous technical and policy memoranda and reports, Dr. Swanson served as President of the Western Division of the American Fisheries Society in 2012-2013, and of the California-Nevada Chapter in 2004-2005.



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Sunday Featured Dinner Speaker
Frank Kanawha Lake, Ph.D.

“The Role of Tribal Knowledge Systems in Collaborative Approaches for Addressing Climate, Fire, and Water Research And Management”

Dr. Lake is a Research Ecologist working on tribal and community forestry and related natural resource issues with the United States Department of Agriculture Forest Service, Pacific Southwest Research Station Fire and Fuels Program, in Orleans, California.

Dr. Lake’s research focuses on restoration ecology and traditional ecological knowledge related to tribal management and fire ecology in the Pacific Northwest and northern California, with an emphasis on the Klamath-Siskiyou bioregion. He has a particular interest in wild-land fire and management effects on cultural resources and tribal values. Recently his research has focused on how tribal traditional ecological knowledge can be incorporated into scientific climate change research to support tribal adaptation and mitigation strategies.



Dr. Lake is the chair of the TEK section of the Ecological Society of America, the Tribal-Climate Change contact for the Pacific Southwest Research Station, and lead coordinating scientist for the Redwood Experimental Forest and Western Klamath Restoration Partnership landscape collaborative. He received his Bachelor of Science in 1995 from University of California-Davis in Integrated Ecology and Culture, with a minor in Native American Studies, and earned his doctorate in 2007 from Oregon State University Environmental Sciences Program.