

North Bay
Watershed Association
2008 Conference

The Power of Water

Water,
Energy, and
Climate Change

Friday, April 4, 2008

8:30 am - 4:30 pm



**NORTH BAY
WATERSHED ASSOCIATION**

Keynote Speakers 2008

Lester Snow

Lester A. Snow was appointed Director of the California Department of Water Resources by Governor Arnold Schwarzenegger in early 2004. As the head of DWR, Director Snow leads a department that protects, conserves and manages the State's water supply, including operation of the California State Water Project. The SWP is the largest, state-run, multi-purpose water and power system in the nation. It provides a supplemental water source for 23 million Californians and about 750,000 acres of irrigated farmland.

Director Snow has experience as a water agency manager at the regional, State and federal levels. From 1995 to 1999, he was Executive Director of CALFED, now the California Bay-Delta Authority, leading the coalition of State and federal agencies working to "fix" the Sacramento-San Joaquin Delta. He left CALFED to become Regional Director for the Bureau of Reclamation for almost two years where he led operations of the Federal Central Valley Project in California. Immediately prior to joining DWR, Director Snow was a water consultant in the private sector.

Previously, Director Snow spent seven years as General Manager of the San Diego County Water Authority. His experience also includes six years with the Arizona Department of Water Resources. Director Snow earned a Master of Science degree in Water Resources Administration at the University of Arizona and a Bachelor of Science degree in Earth Sciences from Pennsylvania State University.

Jared Huffman

Elected in November 2006, Jared Huffman represents the 6th District, which includes Marin and Sonoma Counties and the Cities of Novato, Petaluma, Rohnert Park and San Rafael.

As a senior attorney for the Natural Resources Defense Council (NRDC) and as President of the Marin Municipal Water District Board of Directors, Assemblyman Huffman worked to protect Marin County's creeks, fisheries and drinking water for 11 years.

Prior to joining NRDC, Assemblyman Huffman was a consumer attorney specializing in public interest cases. Among his court victories was an historic case on behalf of the National Organization for Women, which required all California State University campuses to comply with Title IX, creating new athletic opportunities for thousands of female scholar-athletes throughout California.

Assemblyman Huffman's work was honored in 2000 with the "Millennium Leadership Award", presented by the Marin Independent Journal and Marin Community Foundation. He graduated magna cum laude from the University of California - Santa Barbara and graduated cum laude from Boston College Law School.

Karen Douglas

Karen Douglas was appointed by Governor Arnold Schwarzenegger in February 2008 to the California Energy Commission. She fills the Attorney position on the five-member Commission where four of the five members by law are required to have professional training in specific areas - engineering or physical science, environmental protection, economics, and law.

From 2005 to her appointment, Ms. Douglas served as director of the California Climate Initiative at Environmental Defense. Prior to going to Environmental Defense, Ms. Douglas spent four years at the Planning and Conservation League as the Natural Resources Director, General Counsel, and most recently, acting Executive Director. She has worked on a wide range of California natural resource and environmental protection issues, including the Imperial Irrigation District / San Diego water transfer, forest policy, and the California Environmental Quality Act.

Ms. Douglas is a 2001 graduate of Stanford Law School. She holds a Masters Degree in public policy from the University of Colorado, Boulder.

Program Schedule

- 8:30 AM **REGISTRATION** and Continental Breakfast
Great Blue Heron Ballroom
- 9:30 AM **WELCOME** - Jack Gibson, *Director, Marin Municipal Water District*
KEYNOTE SPEAKER - Lester Snow
Director, California Department of Water Resources
- 10:00 AM **WATER, ENERGY, CLIMATE CHANGE AND LAND USE**
Panel Discussion - *What do we know now about the relationships between water use, energy, climate change, watersheds and land use and what can we do about it?*

Will Travis, *Bay Conservation and Development Commission, Moderator*
Noah Knowles, *U.S. Geological Survey*
Matt Kondolf, *University of California, Berkeley*
Bob Wilkinson, *University of California, Santa Barbara*
- 11:10 AM **BREAK**
- 11:30 AM **WATERSHEDS AND FISHERIES RESTORATION**
Panel Discussion - *How will climate change affect watersheds and fisheries and what should we do differently?*

Nadine Hitchcock, *California Coastal Conservancy, Moderator*
Josh Israel, *University of California, Davis*
Maura E. Moody, *National Marine Fisheries Service*
Ellie Cohen, *PRBO Conservation Science*
- 12:40 PM **LUNCH** - Snowy Egret Ballroom
- 1:30 PM **INTRODUCTION** - Judy Arnold, *Supervisor, County of Marin*
KEYNOTE SPEAKER - Jared Huffman,
California State Assembly Member
- 2:00 PM **PLANNING FOR THE FUTURE: WATER'S ROLE**
Panel Discussion - *How can we plan for climate change?*
Bruce Wolfe, *Regional Water Quality Control Board, Moderator*
John Andrew, *California Department of Water Resources,*
Gary Wolff, *State Water Resources Control Board*
Sam Pierce, *Mayor, City of Sebastopol*
- 3:10 PM **INTRODUCTION** - Mike Kerns, *Supervisor, County of Sonoma*
KEYNOTE SPEAKER - Karen Douglas, *Commissioner,*
California Energy Commission
- 3:30-4:30 PM **WINE RECEPTION** - Snowy Egret Ballroom
Wines provided by Parducci Wine Cellars
Hors d'oeuvres courtesy of EI Solutions
- 4:00-4:30 PM **OPTIONAL ACTIVITIES:**
SOLAR PROJECT CASE STUDIES - Great Blue Heron Ballroom
Las Gallinas Valley Sanitary District
West County Waste Water District (Richmond)
RIVER TOUR FOR 6 - Dave Yearsley, Friends of the Petaluma River

Panelists 2008

John Andrew is Chief of Special Planning Projects for the Department of Water Resources (DWR) in California. Prior to this position, John served as the Drinking Water Quality Program Manager and Southern California Regional Coordinator for the California Bay-Delta Authority, and before that, Mr. Andrew was the Chief of Fish Facilities for DWR's Environmental Services Office. He holds degrees in civil engineering and public policy from the University of California at Berkeley.

Ellie M. Cohen, President and CEO, came to PRBO Conservation Science (www.prbo.org) in 1999 with 20 years of non-profit and for-profit management, fundraising and policy expertise.

Ms. Cohen serves on the Governing Board of NOAA's Pacific Coast Ocean Observing System (PaCOOS) and on the Boards of the San Francisco Bay (Immediate Past Chair) and the Central Valley Joint Ventures (USFWS). She is also an invited participant on the U.S. Fish and Wildlife Service's Refuge Bird Team.

Ms. Cohen received her undergraduate degree with honors in Botany (focus on ecology) from Duke University. She later received her Master in Public Policy degree from Harvard University's Kennedy School of Government.

Nadine Hitchcock is currently Deputy Executive Officer for the California Coastal Conservancy. She is responsible for overseeing the agency's strategic planning and fiscal and administrative matters; participates in agency policy development and implementation, currently focusing on climate change; and serves as a liaison and advocate for federal funding of Conservancy supported projects. She is also Vice-Chair of the Coordinating Committee for Bay Area IRWMP. For seven years, she managed the San Francisco Bay Conservancy Program, administering a budget of over \$200 million. Ms. Hitchcock has 22 years of experience managing natural resource and recreation projects with the Coastal Conservancy, 5 years as a regulator with the Coastal Commission, and a Master's Degree in Urban-Regional Planning.

Josh Israel's current projects include collaborations investigating the status of California's inland and coastal salmonids, evaluating life history stressors for green and white sturgeon, and identifying genetic considerations for San Joaquin River spring run Chinook salmon management and monitoring.

Mr. Israel has been involved in fisheries restoration over the past decade as a private consultant, an Americorps Watershed Stewards Project member, and more recently as a Director of the Salmonid Restoration Federation for the past seven years. In 2007, he received a Ph.D. in Ecology from UC Davis about conservation genetics, precautionary management and population monitoring of green sturgeon.

Noah Knowles is currently a Research Hydrologist with the USGS, and his research interests include continued hydrologic and estuarine model development, the role of vegetation in shaping the hydrologic response to climate change, and changes in estuarine water quality and spatial extent due to sea level rise.

Dr. Knowles served as a postdoctoral researcher at SIO, and as a National Research Council Research Associate with the U.S. Geological Survey in Menlo Park, CA. His research topics have included historical trends in precipitation form in the Western U.S. and the influence of projected climate change in California, including changes in snowpack, runoff timing, and Bay-Delta water quality. Dr. Knowles received a Ph.D. from Scripps Institution of Oceanography in 2000, where his dissertation topic was "Modeling the Hydroclimate of the San Francisco Bay-Delta Estuary and Watershed".

Dr. G. Mathias "Matt" Kondolf Professor of Environmental Planning and Geography at the University of California, Berkeley, Dr. Kondolf is a fluvial geomorphologist specializing in environmental river management and restoration of rivers and streams, principally in California and other Mediterranean-climate regions. He is a principal investigator in the National River Restoration Science Synthesis project (a national-level study of river restoration) and a member of the National Research Council Committee on Hydrology, Ecology, and Fishes of the Klamath River Basin. Dr. Kondolf was an author of the CALFED Ecosystem Restoration Program Strategic Plan. He developed the restoration flow regime adopted in the 2006 settlement to restore salmon in the San Joaquin River below Friant Dam. Dr. Kondolf Co-Chairs the UC Berkeley Delta Initiative, which conducts research on urbanization impacts and alternative futures for land-use in the Sacramento-San Joaquin Delta.

Maura Eagan Moody Born and raised in San Francisco, Maura has served in the army, and has been with NMFS since 1999. Maura's work at NMFS has been focused on Bay Area watersheds, including interagency consultations on projects with Federal Highways/CalTrans, coordinating with watershed groups in the Bay Area and acting as NMFS liaison to Napa County. Maura is currently assigned to the Recovery Team and is the co-lead Recovery Coordinator for the office. Maura has a Master's Degree in Biological Sciences, California State University, Chico.

Sam Pierce was elected to the Sebastopol City Council in 2004. In addition to serving as Mayor in 2007, Sam holds a seat on the Sonoma County Transit Authority and the ad hoc subcommittee developing the SCTA Comprehensive Transit Plan. He also serves as Sebastopol's representative on the League of CA Cities Legislation Committee and the Sebastopol Energy and Sustainability subcommittee.

Mr. Pierce has been principally involved in the energy field where his work spans major power plant design engineering in North Carolina to statewide energy efficiency program evaluation and efficiency implementation in California. His current focus is the development of Greenhouse Gas Emissions Reduction Plans for municipalities as the President of MSI Integrated Solutions, Inc. Mr. Pierce is a professional engineer with a master's degree in Architecture from the University of Oregon.

Will Travis has been Executive Director of BCDC for 13 years and was previously the Deputy Director for 10 years. Will has worked either with BCDC or the California Coastal Commission since 1970. Will spent 12 years with the California Coastal Commission where he held a number of positions, including heading the agency's offshore oil drilling permit staff, directing its public access program, and overseeing its budget and administrative functions.

Mr. Travis has also served on the Board of Directors of Friends of the Estuary and the Steering Committee of the Bay Area Transportation Choices Forum. He was an advisor for the National Ocean Service's San Francisco Bay Project and a member of the Berkeley Planning Commission. Mr. Travis holds Bachelor of Architecture and Master of Regional Planning degrees from Penn State University.

Bob Wilkinson is a Lecturer in the Environmental Studies Program in the Donald Bren School of Environmental Science and Management, at the University of California, Santa Barbara. Dr. Wilkinson's teaching, research, and consulting focus on water policy, climate change, and environmental policy issues.

Dr. Wilkinson advises various government agencies on water policy, climate research, and policy issues. He currently serves on the public advisory committee for California's State Water Plan and he represents the University of California on the Governor's Task Force on Desalination. He also advises the California Energy Commission on climate research, and for the past five years he has served as coordinator for the climate impacts assessment of the California Region for the U.S. Global Change Research Program and the White House Office of Science and Technology Policy. Dr. Wilkinson holds a Ph.D. in Political Science from the University of California, Santa Barbara, 2003.

Bruce Wolfe was appointed Executive Officer of the San Francisco Bay Regional Water Quality Control Board in 2003. He oversees the 120 staff of the Water Board in carrying out the Board's mission of protecting, enhancing, and restoring the Bay Region's waters. Prior to his appointment, he had been, since 1997, the Board's Division Chief for implementing watershed management programs, including stormwater pollution control, nonpoint source control, control of discharges of waste to land, and control and restoration of impacts to wetlands and streams.

Mr. Wolfe is a registered Professional Engineer in California, and holds a Bachelor's Degree in Civil Engineering and a Master's Degree in Environmental Engineering from Stanford University.

Gary Wolff, P.E., Ph.D., of Castro Valley serves on the State Water Resources Control Board in the position of Professional Engineer. Prior to his appointment to the State Water Board, he served as one of two Water Quality Appointments to the nine-member San Francisco Bay Water Board. From 2001 to 2006, he served as principal economist and engineer for the Pacific Institute for Studies in Environment, Development and Security.

Dr. Wolff is an expert in the economics and engineering of resource use, including: water quality; water, energy, and materials end-use efficiency; and incentive policies. His professional career has included solar energy construction contracting, water quality regulation for the State of California, design engineer at a wastewater treatment plant, founder and President of an engineering consulting firm, a post-doctoral fellowship at the Center for Conservation Biology at Stanford University, and a visiting professorship at the Graduate School of International Policy Studies at the Monterey Institute of International Studies.

Dr. Wolff received his Doctoral degree in Resource Economics from the University of California at Berkeley, his Master's Degree in Civil and Environmental Engineering from Stanford University and his Bachelor's Degree in Renewable Energy Engineering Technology from Jordan College.

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North Bay Watershed Association Mission

Formed in 2000, The North Bay Watershed Association (NBWA) is a group of 15 regional and local public agencies located throughout Marin, Sonoma, and Napa Counties with a common mission:

“To help regulated local and regional public agencies work cooperatively on water resources issues that impact areas beyond traditional boundaries in order to promote stewardship of the North Bay Watershed.”

NBWA Accomplishments

Consolidated Grant Proposal for Non-Point Source Projects
Integrated Regional Water Management Plan
North Bay Watershed Stewardship Plan
North Bay Regional Water Recycling Feasibility Study and
Satellite Treatment Plant Study
North Bay Mercury Pollution Prevention Outreach
Thompson Creek Stream Restoration Demonstration Project

see <http://www.nbwatershed.org/pages/projects.php> for more detail

NBWA Regional Projects

NBWA Digital Library Project-Executive Summary
Promoting Multi-Benefit Water Projects in the
North Bay Watershed Association Region and the Greater Bay Area
SFEI Final Monitoring Report
Proposed Novato Creek Bank Stabilization Guidelines

*NBWA has a power point presentation with script available -
Triple-A Watershed Management: Awareness, Adoption,
Action - that highlights relationships between water and land use.
see <http://www.nbwatershed.org/pages/library.php> for more detail



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**NORTH BAY
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