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For more information about the
NORTH BAY WATERSHED ASSOCIATION
please visit us on the web:
www.nbwatershed.org
or call 415-945-1108

North Bay
Watershed Association
2010 Conference

Greening Our Water Infrastructure

Friday, April 9, 2010
8:30 am - 4:30 pm



Keynote Speakers 2010

Frances Spivy-Weber



Frances Spivy-Weber of Redondo Beach was elected Vice-Chair of the State Water Resources Control Board on February 17, 2009. Before being appointed to the Board, she served as the executive director of the Mono Lake Committee since 1997.

From 1983 to 1992, Ms. Weber served as the director of international programs for the National Audubon Society. She previously was a legislative assistant for the Animal Welfare Institute from 1978 to 1982.

Ms. Weber was a member of the Bay-Delta Public Advisory Committee and co-chair of its Water Use Efficiency Committee.

She also served as co-chair of the Southern California Water Dialogue and convener of the California Urban Water Conservation Council. She has served on many boards, including the Water Education Foundation, California Council of Land Trusts, and Clean Water Action/Clean Water Fund.

Jared Huffman



First elected to the State Assembly in 2006, Jared Huffman represents the 6th District, which includes southern Sonoma County and all of Marin County. In the legislature, Assembly Member Huffman serves on the following committees:

- Chair, Assembly Water, Parks and Wildlife Committee
- Assembly Budget Committee
- Assembly Budget Subcommittee No. 3 - Resources
- Assembly Natural Resources Committee
- Assembly Utilities and Commerce Committee

Prior to joining the Assembly, he was a senior attorney for the Natural Resources Defense Council (NRDC) and served on the Marin Municipal Water District Board of Directors for 12 years. Prior to joining NRDC, Assembly Member Huffman was a successful public interest attorney in private practice. He graduated magna cum laude from UC Santa Barbara and graduated cum laude from Boston College Law School.

Thank you to *Marin County League of Women Voters* for time keeping.

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We value your input and use it in planning our future conferences.

If you are not able to fill out the evaluation today, please go to www.nbwatershed.org/pages/2010conf.php

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

North Bay Proposal for TMDL Implementation

See <http://www.nbwatershed.org/pages/projects.php> for more details.

NBWA Projects

NBWA Digital Library Project _ Executive Summary

Promoting Multi-Benefit Water Projects Report

SFEI Final Monitoring Report

Miller Creek Pilot Watershed Project

Indicators and Performance Measures for North Bay Watersheds

Watershed Awareness Signs

Marin Private Sewer Lateral Program

See <http://www.nbwatershed.org/pages/library.php> for more details.



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Watershed Information Center & Conservancy of Napa County (WICC)

WATER FRIEND

Bel Marin Keys Community Services District

California Coastal Conservancy

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San Francisco Estuary Partnership

Sonoma County Agricultural Preservation and Open Space District



Program Schedule

- 8:30 AM** REGISTRATION and Coffee
- 9:00 AM** WELCOME AND INTRODUCTION - **Jack Gibson**, MMWD
KEYNOTE SPEAKER - Frances Spivy-Weber
Vice Chair, State Water Resources Control Board
- 9:30 AM** PANEL INTRODUCTIONS - **Shirlee Zane**, County of Sonoma
PANEL - Watersheds and Green Infrastructure
Alexis Strauss, Water Division Director, EPA
How does EPA drive infrastructure and watershed improvement?
Brock Dolman, OAEC *How do you think like a Watershed?*
Josiah Cain, Consultant, Design Ecology
Embedded Ecology in the Built Environment
Rosey Jencks, SFPUC Urban Watershed Management
San Francisco's Stormwater Program
Kit Crump, NOAA *What is the role of habitat enhancement and in-stream flow in salmonid recovery?*
- 10:45 AM** QUESTIONS
- 11:00 AM** BREAK
- 11:15 AM** PANEL - **Water Recycling Advancements**
Chuck Weir, NBWRA *Advantages to a Regional Approach to Recycling*
Mike Ban, Petaluma *Ellis Creek Water Recycling Facility*
Heather Shepherd, Sustainable H2O Solutions
How can I get my (graywater) project permitted without losing my hair?
Christina Berteau, Graywater Action
Grassroots Graywater: low-tech, low-cost, benign systems
- 12:15 PM** QUESTIONS
- 12:30 PM** LUNCH
- 1:30 PM** INTRODUCTION - **Judy Arnold**, Supervisor, County of Marin
KEYNOTE SPEAKER - Jared Huffman, California State Assembly
Member, Chair of the Committee on Water, Parks and Wildlife
- 2:00 PM** PANEL - **Water Supply Innovations**
Paul Helliker, MMWD *Is desalination in our future?*
Pam Jeane, SCWA *Habitat Enhancement and Water Delivery*
Jay Jasperse, SCWA *Can collaborative groundwater management work?*
Chris Brown, CUWCC *Achieving 20% per capita reductions:
What will we need to do in a new world of water conservation?*
- 3:00 PM** QUESTIONS
- 3:15 PM** WINE TASTING - **Benziger Winery**, Sonoma's biodynamic, organic, sustainably farmed family winery

Panel 1 - WATERSHEDS AND GREEN INFRASTRUCTURE

Alexis Strauss As the water director for US EPA Region 9, Alexis Strauss is responsible for Clean Water Act and Safe Drinking Water Act programs in Arizona, California, Hawaii, Nevada, the US territories in the Pacific, as well as working with 147 tribal governments. Ms. Strauss joined the EPA in 1979 as a presidential management intern, working on the Resource Conservation and Recovery Act and Comprehensive Environmental Response, Compensation, and Liability Act (superfund) programs during the 1980s. She received her bachelor's degree from UCLA in geography, and her master's degree from UCLA in urban planning.

Brock Dolman is a co-founder and co-owner of the Occidental Arts and Ecology Center (OAEC) and the Sowing Circle Intentional Community. He is the director of OAEC's WATER Institute and Permaculture Program. He is a wildlife biologist and permaculture, erosion control, and watershed restoration consultant. He has lectured locally, nationally, and internationally on permaculture. He earned his bachelor's degree from UC Santa Cruz graduating with honors.

Josiah Cain is a partner at Design Ecology, a multi-disciplinary design firm specializing in green roofs, living walls, and integrated water management solutions. He has been a featured speaker at major conferences and universities and has taught at UC Davis, Sonoma State University, and Esalen Institute. He has led project teams for civic clients including the New York Dept. of Environmental Protection (DEP), University of California, and the California Academy of Sciences. Raised on a remote homestead in Northern California, Mr. Cain holds a bachelor's degree in landscape architecture from UC Davis and a master's degree in design technology and environment from the Harvard Graduate School of Design.

Rosey Jencks leads the newly formed Urban Watershed Management Program at the San Francisco Public Utilities Commission where she works to integrate stormwater management and other water sensitive policies and designs into San Francisco's landscape. She has worked as a planning consultant and in local environmental non-profits on urban greening. She co-founded the San Francisco Green Schoolyard Alliance and has lectured at UC Berkeley, UC Davis, and the Harvard Graduate School of Design. In 2006, she completed a seven-country tour researching examples of multi-purpose stormwater management. She holds a master's degree in environmental planning and landscape architecture from UC Berkeley.

Kit Crump works for the National Oceanic and Atmospheric Administration Restoration Center, which is the part of the National Marine Fisheries Service that provides grants for fish habitat restoration projects. He is the representative for the San Francisco Bay streams south to the Mexican border. His background is focused on endangered aquatic species in river systems as well as general wildlife biology. He received his bachelor's degree from UC Santa Cruz and his master's degree from San Jose State University.

Panel 2 - WATER RECYCLING ADVANCEMENTS

Chuck Weir is currently senior program manager with Oakley Water Strategies in Oakland. One of his primary responsibilities is to serve as program manager for the North Bay Water Reuse Authority, a cooperative program in the North San Pablo Bay region that promotes sustainability and environmental enhancement by expanding the use of recycled water in Napa, Sonoma, and Marin counties. He has more than 35 years of experience in the operation, maintenance, and management of wastewater treatment systems. He was the general manager of East Bay Dischargers Authority for nearly 20 years until he retired in 2008. Mr. Weir has also held positions with the City of Sunnyvale, Calif., the State Water Resources Control Board, and the City of Riverside, Calif.

Mike Ban is the director of Petaluma's Water Resources and Conservation Department, which provides water, wastewater, recycled water and stormwater services for the city. He has 22 years of experience in the water and wastewater industry. He spent the first 8 years of his career as a private consultant and the last 14 years with the City of Petaluma. Mr. Ban has a BS in civil engineering from UC Davis and is a professional engineer.

Heather Shepherd is an environmental consultant who developed the use of constructed wetlands for treating winery wastewater and installed the first such system in 1998. Since then, about thirty constructed wetlands have been built for wineries in California, Oregon and South Africa. Ms. Shepherd has taught graywater reuse and water conservation classes at the Solar Living Institute. She is a member of a group working to develop new graywater regulations for Sonoma County. Ms. Shepherd spent several years in environmental education as both a teacher and a developer of curriculum. She has a BS in biology from UC Berkeley, an MS in environmental science from University of Wisconsin-Madison, and an MS in civil and environmental engineering from UC Davis.

Christina Berteau has taught workshops with the Graywater Guerrillas since 2007, helping people install their own safe, effective, low-tech systems. She regularly presents at local colleges about graywater, rainwater, and composting toilets, and participated intensively in the California Graywater Code re-write process. She received her plumbing training as the first female union apprentice and became a plumbing contractor specializing in green projects, plumbing quite a few rammed-earth and strawbale homes. In the early 1990s, she designed and built a demonstration, fully permitted, passive-solar rammed-earth cottage as urban infill in downtown Oakland. A graduate of UC Berkeley in social psychology and a certified shamanic counselor, she is interested in how we shift cultural consciousness.

Panel 3 - WATER SUPPLY INNOVATIONS

Paul Helliker is the general manager of the Marin Municipal Water District, a position he has held since July 2004. Prior to joining MMWD, he served as the director of the California Department of Pesticide Regulation, a position to which he was appointed in April 1999 by Governor Gray Davis. That department is one of six boards and departments of the California Environmental Protection Agency and is responsible for regulating all pesticide use in California. During his 25-plus years in environmental programs, Mr. Helliker has worked in a variety of managerial and executive positions in both the private and public sectors, in transportation technologies and in air and water quality regulatory programs. Mr. Helliker has a master's degree in environmental engineering from Stanford University, as well as bachelor's degrees in philosophy and civil engineering from Stanford.

Pam Jeane has been responsible for the continuous operation and permitting of the Sonoma County Water Agency's potable water, sanitation, and flood control facilities since 2000. She completed her Bachelor of Science degree in civil engineering at California State University at Chico. Upon graduation, Ms. Jeane worked overseas for two years. She has been with the Sonoma County Water Agency since 1991 and is a registered civil engineer in the State of California.

Jay Jasperse is the deputy chief engineer for the Sonoma County Water Agency's Engineering and Resource Planning Division and is responsible for the capital projects program and water supply planning activities. He has published articles on topics such as surface water-groundwater interactions, natural filtration processes, riverbank filtration, and evaluation and modeling of saturated and vadose zone systems. Mr. Jasperse received a Bachelor of Science degree in geology from UC Davis and a master's degree in civil engineering from UC Berkeley. He is a registered professional engineer in California.

Chris Brown is the executive director of the California Urban Water Conservation Council, the largest statewide water conservation organization in the United States. From 1999 to 2007, Mr. Brown was principal of a water conservation and resource management consulting firm, where he served municipalities, state agencies, corporations, and nonprofits. Mr. Brown's work in water conservation began in the late 1980s when he was the Southern Nevada Director of Citizen Alert, a Nevada non-governmental agency. He holds a master's degree in water resource management from the University of Nevada, Las Vegas.