

**ENVIRONMENTAL FORUM OF MARIN'S "TOWARD A SUSTAINABLE MARIN"
2007 WORKSHOP SERIES**

Members, and their guests, are welcome to attend classes, as visitors, but conditions apply.

Permission from the Director is mandatory prior to attendance.

Please inquire three days minimum prior to class date: Workshop@MarinEFM.org – thank you!

WATER RESOURCES

Session #4: Saturday, March 3, 2007, 9 a.m.- 2:00 p.m.

Coordinators: Dede Sabbag (33), Polly Smith (1)

Location: Dominican University, Caleruega Hall/The Creekside Room, Magnolia Avenue, San Rafael
Directions to Dominican: <http://www.dominican.edu/about/campus/directionstocampus.html>
Campus Map: (<http://www.dominican.edu/about/campus/campus-tour/campusmap.pdf>)

OBJECTIVES:

1. Discuss how the uncertainties of global warming and climate change may affect our state, regional and local water resources.
2. Examine how other issues, such as population growth, may or will affect California and Marin's water resources in the future.
3. Learn about Marin's existing and projected water supply demands and explore the pros and cons of future sources such as desalination, Russian River, re-use and increased conservation.
4. Review the energy requirements of existing and proposed Marin water supply systems and the feasibility of using renewable energy as a power source.

SPEAKERS:

Jerry Meral	Former Planning & Conservation League Executive Director
Paul Helliker	General Manager, Marin Municipal Water District
Chris de Gabriele	General Manager, North Marin Water District
David Behar	MMWD Board of Directors, SF PUC (Water Enterprise Division)

SCHEDULE:

9:00	Introduction
9:05	Water Issues at the State level—including global warming and energy consumption (Jerry Meral)
10:20	BREAK
10:30	Environmental Policy and Water Resources (David Behar)
11:05	An Overview of Marin's Water Supply (Polly Smith)
11:15	MMWD's future options for water – the Water District plans for, and the pros and cons of: Russian River water, desalination, reclaimed water, and conservation (including energy, economic and environmental issues, if any) (Paul Helliker)
12:00	LUNCH
12:40	NMWD's future options for water – the Water District plans for, and the pros and cons of: Russian River water, desalination, reclaimed water, and conservation efforts (including energy, economic and environmental issues, if any) (Chris DeGabriele)
1:15	Open Forum Discussion with Paul Helliker, Chris DeGabriele and David Behar - Each trainee will be encouraged to ask at least one question.
1:50 – 2:00	Wrap up and announcements

RECOMMENDED READING/WEB RESOURCES:

Handout: Glen Martin, SF Chronicle, Sunday, January 7, 2007. The Great Thirst Looking ahead to a post-global warming life in California, 60 years hence

Marin County Grand Jury Report: "Water, Water, Anywhere?" 4/27/05
<http://www.co.marin.ca.us/depts/GJ/main/cvgrjr/2004gj/index2004.cfm>
Please also read the responses, listed right under this report

MMWD Information on Water Resources for Marin:
<http://www.marinwater.org/controller?action=menuclick&id=221>

FAQ's about DeSal in Marin:
<http://www.marinwater.org/controller?action=menuclick&id=228>

County of Marin, Community Development Agency – Climate Protection:
<http://www.co.marin.ca.us/depts/CD/main/comdev/advance/Climate.cfm>

From the Pacific Institute – reports to **read online:** <http://www.pacinst.org/reports/>, "Desalination, With a Grain of Salt - A California Perspective" Heather Cooley, Peter Gleick [Report] "California Water 2030: An Efficient Vision," Peter Gleick, Heather Cooley, David Groves [Report], "Energy Down the Drain", Dr. Gary Wolff, Ronnie Cohen (NRDC), and Barry Nelson (NRDC), [Report]

Western Water Magazine, monthly from the Water Education Foundation: 717 K Street, Suite 317, Sacramento, CA 95814. <http://www.water-ed.org/westernwater.asp> (you can read the reports online, order one edition for \$3, or get a subscription for a year for \$45)

Brown Lester R.,2006. **Plan B 2.0:** Rescuing a Planet Under Stress and a Civilization in Trouble. Earth Policy Institute.

Pearce, Fred, 2006. When the Rivers Run Dry. Water – The Defining Crisis of the Twenty-First Century. Beacon Press, Boston.

Creek Groups: <http://www.mcstoppp.org/crkfriend.htm>

COORDINATORS' BIOGRAPHIES:

Polly Smith (1)

Polly has lived in Marin since 1954. She graduated from the EFM's first year of training in 1972 and served as its President the following year. In 1973 she was elected to the Board of MMWD, and then appointed to the S.F. Regional Water Quality Control Board. She has served as Natural Resource Director for the League of Women Voters of CA, on the Boards of Save San Francisco Bay Association, the CA Urban Water Conservation Council (CUWCC) and on a variety of Marin County, League of Women Voters and Tiburon boards and committees. Presently she is on the CUWCC and the state Dep't of Water Resources Bulletin 160 - a CA Water Plan Advisory Committee - and is Natural Resources Chair (off board) for the LWV Marin County. She has served on the EFM Board most recently as its Nominating Chair. She lives in Tiburon and has six children.

Dede Sabbag (33)

Dede was the fifth generation of women in her family to work in Yosemite Valley; she solo-hiked the John Muir trail after graduating from UCLA; and has been in the field of environmental education ever since. She has lived in Mill Valley for over 30 years, raising two children with her husband, Rick. During those years she has worked at the Headlands Institute, taught middle school science, and run teacher workshops with the Aquatic Outreach Institute (now the Watershed Project). Currently she coordinates the Terwilliger Marsh restoration project, volunteers for EFM, foster cares for baby squirrels, and answers the night hotline for WildCare. She is coordinating a native plant (water conserving/wildlife habitat) garden tour for Marin next fall.

SPEAKERS' BIOGRAPHIES:

Jerry Meral

Board Member: Environmental Action Committee of West Marin; National Wildlife Federation
As Executive Director for twenty years of the well-known Planning and Conservation League (PCL), Jerry was instrumental in passing many California state bonds and initiatives to protect the environment—including, among others, water and park bonds, the Rail Bond Initiative and Wildlife Protection Act. Jerry now lives in Inverness with his wife, Barbara, but remains very active in retirement. Besides Environmental Action and the PCL, Jerry currently serves on the Boards of the Sierra Fund, Tuolumne River Trust, Restore Hetch Hetchy, American Land Conservancy, the CA Bay Delta Public Advisory Committee and the Environmental Advisory Committee for Delaware North that runs Sequoia and Yosemite National Parks.

Before joining PCL, Jerry first worked for the Environmental Defense Fund. Later he became Deputy Director of California's Department of Water Resources where he supervised energy and water development programs including the Office of Water Conservation.

His work has been widely recognized and honored. He received the National River Conservation Award as well as honorary awards from Common Cause, the Sierra Club, the California State Legislature and many others. He is one of the best known speakers on water and other environmental issues in California. Jerry received a BS degree in zoology from the University of Michigan and a PhD from UC Berkeley.

David Behar

David Behar joined the San Francisco Public Utilities Commission in August 2005 and serves as Deputy to the Assistant General Manager, Water Enterprise. The Water Enterprise manages water and power facilities and operations at Hetch Hetchy, the regional system that delivers water 160 miles to 2.4 million Bay Area residents, and all water distribution facilities in San Francisco. Prior to joining the SFPUC, he was an environmental policy consultant whose clients included the Natural Resources Defense Council and the Pacific Rivers Council. From 1991-97, he served as Executive Director of The Bay Institute of San Francisco, and participated in efforts to pass the Central Valley Project Improvement Act, achieve protections for at risk fisheries under the federal Endangered Species Act, and negotiate the 1994 Bay/Delta Accord. In November 2006 he was elected to the Board of Directors of the Marin Municipal Water District.

David lives in San Anselmo, and graduated from UC Santa Cruz with a degree in Political Science.

Paul Helliker

Paul joined the Marin Municipal Water District as its new General Manager in July 2004. He previously worked as the Director of the CA Department of Pesticide Regulation, a position to which he was appointed by Governor Gray Davis in April 1999. During his twenty year career, Paul has worked in a variety of management and executive positions--including a business consortia focused on advanced transportation technologies and in air and water quality programs for both federal and state environmental agencies. Paul has a master's degree in environmental engineering and bachelor's degrees in philosophy and civil engineering, both from Stanford University.

Chris DeGabriele

Chris has been a homeowner in Novato since 1987. He joined the North Marin Water District as its Chief Engineer in 1991 and four years later became its General Manager. Chris has been active in the Water Advisory Committee (WAC), comprised of the nine water districts, including both the MMWD and the NMWD, that receive water supply from Sonoma County Water Agency.

Chris graduated from Michigan Tech with a BS degree in engineering. He has fifteen years experience in the design and construction industry, all with the Bechtel Group of Companies, traveling from Michigan to South Carolina and then to San Francisco. He and his wife have two sons. Besides his work in WAC, Chris is an active member of Our Lady of Loretto Church, the Rotary Club, American Water Works Association, American Society of Civil Engineers and the Association of California Water Agencies.