Bay Planning Coalition

Energy & Water Nexus Summit 4

Monday, September 28th, 2015

East Bay Municipal Utility District

375 11th Street, Oakland, CA 94607

Bay Planning Coalition

BPC Workshop:
Energy & Water Nexus Summit 4

September 28th, 2015
9:30 AM - 3:00 PM
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AGENDA

8:45am – 9:30am	**Registration and Networking**
9:30am – 9:40am	**Welcome and Introductions** Richard Sinkoff, Vice President, *Bay Planning Coalition*
9:40am – 10:05am	**The Nexus Between Water, Energy, and Natural Resources Management** Mark Rentz, *Integrated Natural Resources Management*
10:05am – 10:30am	**Technological Innovation for Water Conservation** Peter Yolles, *WaterSmart Software*
10:30am – 10:45am	**Break**
10:45am – 11:50am	**Panel 1: Desalination** Moderated by Barry Nelson, *Western Water Strategies* ▪ **Perspective in Favor of Desalination** Richard Nagel, *West Basin Municipal Water District* ▪ **Perspective in Opposition of Desalination** Heather Cooley, *The Pacific Institute*
11:50am – 12:15pm	**Economic & Environmental Correlation Between Water and Energy Use** Dr. Newsha Ajami, *Director of Urban Water Policy, Stanford Wood Institute's Water in the West Initiative*
12:15pm – 1:00pm	**Lunch** ▪ **Lunch Speaker**: Alexander Coate, General Manager, *EBMUD*

1:00pm – 1:25pm	**Re-Inventing the Nation's Urban Water Infrastructure** Dr. Richard Luthy, *ReNUWIt, Stanford University*
1:25pm – 2:30pm	**Panel 2: Bay Delta Water Conveyance Plan** Moderated by Ane Deister, *Parsons* ▪ **Perspective in Favor of Bay Delta Water Conveyance Plan** Jerry Meral, *Natural Heritage Institute* ▪ **Perspective in Opposition of Bay Delta Water Conveyance Plan** Barbara Barrigan-Parilla, *Restore the Delta*
2:30pm – 2:55pm	**The Management of California's Resources: The Drought and Beyond** Steven Moore, *State Water Resources Control Board*
2:55pm – 3:00pm	**Closing** John Coleman, CEO, *Bay Planning Coalition*

Upcoming BPC Events:

- ***October 6, 2015*** **–BPC Expert Briefing: CEQA Update** – Wendel, Rosen, Black & Dean LLP, Oakland, CA, 11:00 AM – 1:00 PM
- ***October 29, 2015*** **–BPC Workshop: Economic Challenges to Port Competitiveness**– Port of San Francisco, San Francisco, CA, 8:30 AM to 12:00 PM
- ***November 12, 2015*** **–BPC Workshop: Dredging & Beneficial Reuse** – AECOM, Oakland, CA, 8:30 AM to 12:00 PM
- ***December 11, 2015*****– BPC Annual Meeting & Luncheon** – St. Francis Yacht Club, San Francisco, CA, 11:30 AM to 2:00 PM

Newsha Ajami

Newsha K. Ajami, is the director of Urban Water Policy with Stanford University's Water in the West program. She is a hydrologist specializing in sustainable water resource management, water policy, and the water-energy-food nexus. Her research throughout the years has been interdisciplinary and impact driven, focusing on the improvement of the science-policy-stakeholder interface by incorporating social and economic measures and effective communication.
Dr. Ajami is a gubernatorial appointee to the Bay Area Regional Water Quality Control Board. Before joining Stanford, she worked as a senior research associate at the Pacific Institute, and served as a Science and Technology fellow at the California State Senate's Natural Resources and Water Committee where she worked on various water and energy related legislation. She has published many highly cited peer-reviewed articles, coauthored two books, and contributed opinion pieces to the *New York Times* and the *Sacramento Bee*. She was the recipient of the 2005 National Science Foundation award for AMS Science and Policy Colloquium and ICSC-World Laboratory Hydrologic Science and Water Resources Fellowship from 2000 to 2003. Dr. Ajami received her Ph.D. in civil and environmental engineering from the UC, Irvine, an M.S. in hydrology and water resources from the University of Arizona.

Barbara Barrigan-Parrilla

Barbara Barrigan-Parrilla is the Executive Director for Restore the Delta. Prior to joining the campaign, Ms. Barrigan-Parrilla served as the Business Development Manager for the Planning and Conservation League in Sacramento. Ms. Barrigan-Parrilla has also taught English in the California community college system, served as a field representative for the Oakland local of the California Federation of Teachers, worked in marketing and customer service for The Disney Channel, and served as Executive Director for Manifest Press and Literary Arts Center also in Oakland.
Over the last seven years, Ms. Barrigan-Parrilla has worked to give Delta residents a voice in the myriad of government processes leading to the proposed peripheral tunnels project, or Bay Delta Conservation Plan. Ms. Barrigan-Parrilla maintains that the health of the Delta is directly tied to the environmental and economic health of California.

Alexander R. Coate

Alexander R. Coate has over 29 years of experience with public agencies, engineering consulting firms, research and law. Mr. Coate has worked for more than 21 years with the East Bay Municipal Utility District (EBMUD) and currently serves as EBMUD's General Manager. Previously he was Director of Water and Natural Resources with responsibility for water supply planning, water rights, and watershed management including recreation and fisheries. Mr. Coate also managed the District's implementation of the $900M Freeport Regional Water Project in partnership with the Sacramento County Water Agency. The Freeport Project is the recipient of the American Society of Civil Engineers, Sacramento Section's 2009 Water Project of The Year Award and the American Council of Engineering Companies' 2012 Merit Award. Mr. Coate's education includes a B.A. in Neurobiology and a Masters in Civil Engineering from the University of California, Berkeley. Mr. Coate also holds a Professional Engineer's license with the State of California.

Mr. Coate is a member of the American Water Works Association and the Association of California Water Agencies. He currently serves on the boards of the California Urban Water Agencies, the California WateReuse Association, the Western Urban Water Coalition and the Water Research Foundation.

John A. Coleman

John A. Coleman is the Chief Executive Officer of the Bay Planning Coalition, a non-profit, public benefit, membership corporation, to advocate for the balanced regulation and use of Bay-Delta resources to ensure that commerce, recreation and the environment thrive in the region. The Coalition's 175 members represent a broad spectrum of public and private Bay-Delta entities, including ports, maritime and shoreline industry, labor unions, local government, residential and commercial builders, recreational users and engineering, planning, environmental science, construction and legal professionals.

Coleman was elected in 1990 and since re-elected to the Board of Directors of the East Bay Municipal Utility. Coleman was elected to serve as the President of the Association of California Water Agencies (ACWA) in December 2013. Coleman currently serves in the following capacities: Board Member of the Marine Exchange of the San Francisco Bay Region; Chair of the Freeport Regional Water Authority (FRWA); Chair of the Upper Mokelumne River Watershed Authority (UMRWA); Board Member of the East Bay Leadership Council; member of the San Francisco Bay Restoration Authority Advisory Committee; member of the East Bay Economic Development Alliance Legislative Committee, and Board Member of DERWA, the joint powers authority for recycled water service provided by EBMUD and the Dublin-San Ramon Services District.

Heather Cooley

Heather Cooley is Director of the Pacific Institute's Water Program. She conducts and oversees research on an array of water issues, such as the connections between water and energy, sustainable water use and management, and the hydrologic impacts of climate change. As a Pacific Institute staff member, Ms. Cooley has authored numerous scientific papers and co-authored five books, including *The World's Water*, *A 21st Century U.S. Water Policy*, and *The Water-Energy Nexus in the American West*.

Ms. Cooley has received the U.S. Environmental Protection Agency's Award for Outstanding Achievement (for her work on agricultural water conservation and efficiency) and her work was recognized when the Pacific Institute received the first U.S. Water Prize in 2011. She has testified before the U.S. Congress on the impacts of climate change for agriculture and on innovative approaches to solving water problems in the Sacramento-San Joaquin Delta. Ms. Cooley holds a B.S. in Molecular Environmental Biology and an M.S. in Energy and Resources from the University of California, Berkeley. Prior to joining the Pacific Institute, she worked at Lawrence Berkeley Laboratory studying climate and land use change and carbon cycling. Ms. Cooley currently serves on the Board of the California Urban Water Conservation Council.

Ane Deister

Ane Deister is a corporate officer and Vice President of Parsons Environment and Infrastructure. She has been with Parsons for three years, previously serving for two decades in top executive and general manager positions with water-based utilities in California and Florida. Her experience also includes environmental and habitat restoration in the California Central Valley.

Ane's experience in managing utilities has involved a blending of environmental compliance, ethics, sustainable practices, triple bottom line delivery, climate change adaptations, drought preparedness, organizational and leadership development and visioning to enhance and transform traditional business practices. Her educational experience includes: M.S. Environmental Sciences and Engineering, University of Florida; M.A. Biology, Population Modeling, University of South Florida; B.A. Botany, University of South Florida.

She is a former member of the Governor-appointed California Water Commission, was appointed to the President's National Drought Policy Commission and serves on several professional organizational boards, including the Water Education Foundation, Urban Water Institute and Bay Planning Coalition.

Richard Luthy

Richard G. Luthy is the Silas H. Palmer Professor of Civil and Environmental Engineering at Stanford University, California. He is the Director of the NSF Engineering Research Center for Reinventing the Nation's Urban Water Infrastructure (ReNUWIt), a four-university consortium that seeks more sustainable solutions to urban water challenges in the arid west. His area of teaching and research is environmental engineering and water quality with applications to water reuse, stormwater use, and systems-level analysis of our urban water challenges.

Gerald Meral

From 2011 to 2013 Dr. Meral served as Deputy Secretary of the California Natural Resources Agency, in charge of the Bay Delta Conservation Plan. The Plan is a habitat conservation plan developed to preserve more than 50 rare, endangered, and other species under the federal Endangered Species Act, and under the California Natural Community Conservation Planning Act. It covers the entire Sacramento-San Joaquin River Delta. The Plan and accompanying Environmental Impact Statement and Report was recently released in the federal register for public comment.

Dr. Meral previously served as Executive Director of the Planning and Conservation League, a California statewide conservation group, from 1983-2003. He developed a variety of statewide conservation and health measures which produced more than $20 billion in new statewide programs, and directed the League's program of conservation legislation. Prior to that, he served as Deputy Director of the California Department of Water Resources from 1975-1983, where he directed the statewide water planning and energy programs. He also served as Director of Western Water Programs for the Environmental Defense Fund from 1971 to 1975. Dr. Meral previously served on the NHI Board of Directors, and subsequently represented NHI on the Bay Delta Conservation Plan steering committee in 2010. He holds a Ph.D. in Zoology from UC Berkeley.

Dr. Meral is the Director of the California Water Program for the Natural Heritage Institute (NHI), and he represents NHI on the Bay Delta Conservation Plan, California groundwater, water quality related to transportation projects, and other California water issues.

Steven Moore

Steven Moore has 25 years professional experience in water issues in California and was appointed to the State Water Board by Governor Jerry Brown in 2012, where he serves with four other members including Chair Felicia Marcus. He previously served on the San Francisco Bay Regional Water Board from 2008 to 2012. He has 10 years experience as an engineering consultant, specializing in water infrastructure design, permitting and construction review, including wastewater, storm water, environmental impact reports and stream and wetland restoration. He worked in various clean water regulatory programs for 15 years, including permitting, planning, and water quality standards. He has a BS in Biology and an MS in Civil Engineering, both from Stanford University.

Richard Nagel

Rich Nagel was named General Manager by the West Basin Board of Directors in June 2006. Prior to his appointment as General Manager, Mr. Nagel served as Co-General Manager of the West Basin Municipal Water District and Central Basin Municipal Water District until the separation of shared administrative services from May 2004 until May 2006. Mr. Nagel was employed as the District's Manager of Water Quality in 2000, and had been responsible for all aspects of the District's water quality regulatory program, research and development programs through collaborative meetings and discussions with numerous public and regulatory agencies on groundwater quality issues, remedial investigation activities and various water treatment studies, as well as overseeing numerous reports on groundwater studies and the effects of various contaminants. More recently, Mr. Nagel oversees the District's recycled water program that features the only recycling plant in the world that produces 5 special quality designer waters for industrial, commercial, recreational and indirect potable use.

Mr. Nagel has over 29 years of experience in the water supply and wastewater arena. Prior to joining the Districts, Nagel was employed with the Los Angeles Department of Water and Power (LADWP) from 1985-2000. During that tenure, he served as the Assistant Upper Los Angeles River Area Watermaster for five years. As the Assistant Watermaster, he managed the development of the annual publications of two court-mandated reports, led the investigation of numerous water rights issues, supervised groundwater quality and contamination studies, monitoring system development, modeling activities and water supply analyses. In addition, he served as the Manager of the Central and West Coast Groundwater Basins and Project Manager for LADWP, and was also the manager of Mono Basin Studies for two years. From 1989-1992, Mr. Nagel was the Coordinator of the Remedial Investigation of Groundwater Contamination in the San Fernando Basin. A registered professional engineer, Mr. Nagel graduated from San Diego State University with a Bachelor of Science degree in Civil Engineering. He is on the Board of Directors for the WateReuse Foundation, Board of Directors of the California WateReuse Association, Board member of the Multi-State Salinity Coalition, and Board member of the Urban Water Institute. He serves as an alternate Board member of the National Water Research Institute. He has received the Recycled Water Person of the Year award in 2009 and the Recycled Water Advocate of the Year award in 2012.

Barry Nelson

Barry Nelson is an independent water policy consultant. His firm, Western Water Strategies, provides services for NGOs, foundations and for profit firms. Mr. Nelson has been active on water issues in California and across the West for thirty years. From 1999 to 2013, Mr. Nelson was a senior policy analyst in NRDC's Water Program, with a focus on California water issues, as well as on the connection between climate change and water management. He has been deeply involved in efforts to protect the San Francisco Bay-Delta Estuary and its tributary rivers, in the promotion of water conservation, as well as of environmentally and economically sustainable water management. In 2009, Mr. Nelson led the environmental community's successful effort to pass historic state water reform legislation that created the Delta Stewardship Council and a state program to reduce per capita water use 20 percent by 2020. He has been active in San Joaquin River restoration, the CALFED Bay-Delta Program, the Delta Vision Blue Ribbon Task Force process, and many other efforts. He has been a leader in exploring the connections among climate change, energy and water management, including serving as an author of several key reports.

From 1984 to 1999, Mr. Nelson was on the staff of Save The Bay in Oakland, serving nine of those years as Executive Director. In this capacity, he served as the chair of the campaign to pass the most important water management legislation ever approved by Congress -- the Central Valley Project Improvement Act. He also was a leader in successful efforts to resolve Bay dredging issues, to protect and restore Bay wetlands and to create parks and public access along the Bay shoreline. Since 2006, Mr. Nelson has served as the State Senate representative on the San Francisco Bay Conservation and Development Commission, where he is currently chairing a working group addressing sea level rise issues. Mr. Nelson has written and spoken widely on water issues. He is a graduate of the University of California at Berkeley, with a BA in economics and rhetoric and a MA in rhetoric.

Mark Rentz

Mark Rentz is the founder and president of Integrated Natural Resources Management, LLC (INRM). INRM is dedicated to developing innovative solutions for complex environmental challenges while providing long-term certainty in an ever-changing regulatory environment. Mark has more than 30 years experience in natural resource management, policy, law and regulations. Before forming INRM, he was the Director of Regulatory Affairs at the Association of California Water Agencies (ACWA). Previously, he was the Vice President of Government Affairs and General Counsel at the California Forestry Association, and National Director of the Federal Timber Sale Program at the American Forest and Paper Association in Washington, D.C.

In addition to working in the private sector, he has the unique experience of working both for state government as a Governor's appointee as Deputy Director of Policy Coordination at the California Department of Pesticide Regulation/California Environmental Protection Agency and the federal government in numerous capacities with the U.S. Forest Service. Mr. Rentz has a Bachelor of Science degree in forest management with a business minor from Oregon State University and graduated with honors from Golden Gate University with an emphasis in environmental law.

Richard Sinkoff

Richard Sinkoff is the Director of the Division of Environmental Programs and Planning at the Port of Oakland. In this role, Mr. Sinkoff leads the Port of Oakland's regulatory, environmental compliance and safety programs for the seaport, Oakland International Airport and the Port's commercial real estate division.

In 2007-2009, Mr. Sinkoff directed the Port of Oakland's Maritime Air Quality Improvement Plan. In 2012, the Port's updated emissions inventory showed a 70% reduction in diesel particulate matter (DPM) from maritime-related mobile sources. In 2010, Mr. Sinkoff directed the Port of Oakland 5-year Strategic Plan.

Mr. Sinkoff is a graduate of Columbia University and UC Berkeley. In 2006, Mr. Sinkoff completed his Juris Doctorate (JD) from Golden Gate University School of Law after four years of night school! Mr. Sinkoff is an avid swimmer, cyclist, and outdoorsman.

Peter Yolles

Peter leads WaterSmart's governmental and regulatory affairs activities in addition to new market development. He has decades of experience in water conservation and efficiency, water rights and transfers, environmental regulation, finance, economics and policy. Prior to WaterSmart, Peter was Director of Water Resource Protection for The Nature Conservancy, where he led river restoration efforts throughout California. As Vice President at Western Water Company, he completed water transfer agreements with California agricultural water districts to conserve and lease water to municipal water districts. Early in his career, Peter also worked at GE Capital Solutions, Environmental Defense Fund, and the Pacific Institute. Peter earned his MBA in Finance from the Yale School of Management and an MES in Water Science, Management and Policy from Yale School of Forestry and Environmental Studies. He holds a BA in Political Science from the University of Colorado, Boulder.

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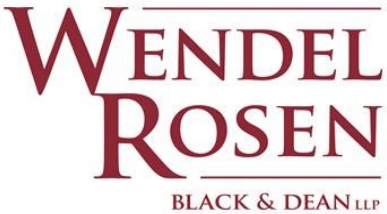

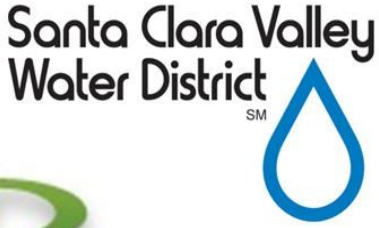

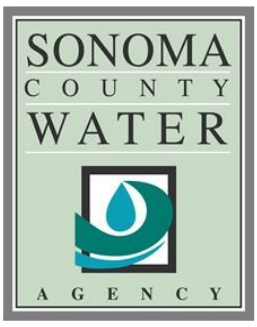

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Time, location and registration details can be found at bayplanningcoalition.org, or by contacting

bpcstaff@bayplanningcoalition.org

Phone: (510) 768-8310