

# California WATER COMMISSION

## THE FUTURE OF WATER STORAGE IN CALIFORNIA: WORKSHOP 2 October 25, 2011

### SPEAKERS

**Dave Cogdill**  
Assessor, County of Stanislaus  
Member, California Water Commission



Dave Cogdill, of Modesto, began his term as Stanislaus County Assessor in 2011. Previously, he represented the 14th District through in the California State Senate from 2006 to 2010. He served as chair of the Select Committee on Surplus Property, and vice-chair of the Senate Committees on Natural Resources and Water; Banking, Finance and Insurance; and Public Safety. Cogdill was also a sitting member on the Budget and Fiscal Review Committee; Budget Subcommittee No. 2 on Resources, Environmental Protection, Energy and Transportation; Select Committee on Asian Pacific Islander Affairs; and the Joint Legislative Audit Committee. Additionally, Cogdill served as the Senate Republican Leader from April 2008 to February 2009 and Senate Minority Whip from 2007 to 2008. Prior to that, he represented the 25th District in the State Assembly, where he was vice-chair of the Committee on Rules and sat on the Budget Committee, Agriculture Committee and the Joint Legislative Audit Committee. Cogdill was Assembly Minority Floor leader from 2002 to 2006. Previously, he owned and was an appraiser for Cogdill and Giomi.

### MODERATORS

**Kirk C. Rodgers, Senior Project Manager**  
HDR Engineering



Kirk C. Rodgers joined HDR in 2007 as a Senior Project Manager after 35 years of federal service in water resources management. For the previous eight years he led the Bureau of Reclamation's Mid-Pacific Region as the Director. During his tenure at Reclamation, he was responsible for managing the Central Valley Project (CVP), one of the largest water projects in the United States. In the years that he held the positions of Regional and Deputy Regional Director at Reclamation, he provided testimony and briefings to the U.S. Congress and California State Legislature, provided oversight on construction of major water and power projects, and helped to modernize CVP environmental capability with projects such as the Shasta Temperature Control Device, fish screens, refuge water conveyance and supply, fish friendly water transfers, and major river restoration projects.

**Carl Hauge, Former Chief Hydrogeologist  
Department of Water Resources**



Mr. Carl Hauge is Chief Hydrogeologist, retired, for the California Department of Water Resources (DWR). Mr. Hauge began his career as a scientific aide at the U.S. Geological Survey, and shortly thereafter he joined DWR and worked on groundwater studies and dam sites in San Joaquin Valley. Later, Mr. Hauge worked for the California Department of Conservation, Division of Mines and Geology on earthquakes and urban geology and with the Department of Forestry on forest practice rules for timber harvesting. Mr. Hauge returned to DWR where he studied water supply and demand, groundwater and land subsidence, and well construction and destruction. Mr. Hauge was involved with the Association of California Water Agencies Groundwater Committee and the California Groundwater Association. He earned his Bachelor of Arts in Geology from the University of California, Riverside and is a Professional Geologist and Certified Engineering Geologist.

**Robert Shibatani, CEO & Consulting Hydrologist  
The SHIBATANI GROUP Inc.**



Robert Shibatani is an empirical snowmelt hydrologist and long-time consultant for the California water industry. He is on the Editorial Review Board for the Journal of Water & Climate Change (London, UK), is an IWA Specialist Group Member on the Committee on Climate Change and Managed Adaptations and Water, Energy & Climate Working Group (Den Haag, NL), Task Force Member on Retreating Snowpacks and Glaciers (Amsterdam, NL), Task Force Member on Arid Landscapes (Sydney, AU), climate change editorial peer reviewer for IWA World Water Congresses and the International Water Resources Association (Montreal, CAN), Committee member for the 2012 IWA Climate Change World Congress (Dublin, IE), and 2012 World Water Congress (Busan, KOR), is the current Vice Chair of the Environmental & Water Resources Institute/ASCE Norcal Chapter and ongoing participant in the IAHS/IUGG Predictions in Ungaged Basins (2003-2013) Decade. He is the CEO of The SHIBATANI GROUP, Inc., a water resources specialty firm based in Sacramento, California, working with public/private water interests and infrastructure investors in SE Asia, Central Asia, EU, and North America.

**Tim Quinn, Executive Director  
Association of California Water Agencies**



As executive director of the Association of California Water Agencies (ACWA), Timothy Quinn leads the largest water organization of its kind in the nation. Quinn, who became ACWA executive director in July 2007, has more than 25 years of experience in California water issues. Prior to joining ACWA, Quinn served as deputy general manager of the Metropolitan Water District of Southern California. He joined MWD in 1985 as principal economist, and became deputy general manager in 1994. Before coming to MWD, Quinn was a project manager at the Rand Corporation, specializing in research on natural resources and environmental policy issues. He earned his bachelor's degree in economics from the University of Colorado in 1974 and his master's and doctorate degrees in economics from the University of California, Los Angeles in 1976 and 1983.

## PANELISTS

### **Panel 1: System Reservoir Reoperation & Integrated Water/Flood Management**

**Pal Hegedus**

**Immediate Past Chair, Floodplain Management Association**

**Vice President, RBF Consulting**



Pal Hegedus, P.E., D.WRE, is a Vice President of RBF Consulting in charge of the Water Resources Department in the Sacramento office. He recently served as Chair of the Flood Plain Management Association (FMA). In 2006, the FMA recognized Pal as Floodplain Manager of the Year. Mr. Hegedus was also awarded the prestigious Knight's Cross Merit of the Republic of Hungary Award - Hungary's sixth-highest civilian honor - recognizing his contributions in introducing advanced floodplain management and modeling techniques to local agencies, and his work with staff and students at the Technical University of Budapest. Pal completed his undergraduate studies in Civil Engineering and his graduate studies in Water Resources

Engineering at the Budapest University of Technology and Economics. Mr. Hegedus is an inaugural founding Diplomat of American Academy of Water Resources Engineers since 2005.

**Gregory Thomas, President**

**Natural Heritage Institute**



Gregory Thomas is the Natural Heritage Institute's founder and president. Greg has practiced natural resources law since 1974, primarily for non-profit conservation organizations. In the 1970's, he played a central role in the enactment of many of the foundational federal laws in the energy and environmental field. He was a senior staff attorney with the Natural Resources Defense Council's international program, and became the managing attorney of its San Francisco office. He was a Fulbright Professor and advisor to the

national environmental ministry of China, and he taught law at UCLA and UC Berkeley. Greg's practice has encompassed many areas of natural resource management, including water resources, energy, air quality, biodiversity, environmental planning, and international conservation. At NHI, he develops and manages large-scale projects in California, throughout the United States and internationally.

**Curt Aikens, General Manger**

**Yuba County Water Agency**



Curt Aikens is the General Manager of the Yuba County Water Agency (YCWA) and is responsible for overall operations of the 966,000 acre-foot New Bullards Bar Reservoir, flood control operations for 170,000 acre-feet of seasonal dedicated flood storage capacity, and two hydropower generation plants totaling 380 MW of power. In addition to regulatory compliance and surface and groundwater transfers, Curt manages and delivers up to 300,000 acre-feet of water annually to 8 agricultural water entities. One of YCWA's primary missions is to improve flood protection in Yuba County. Curt has served as the YCWA General Manager since 2001 and before that as an YCWA Assistant Manager since 1998. His previous work experience includes 19 years at Pacific Gas and Electric Company serving in positions ranging

from Energy Conservation Representative, to Regional Marketing Manager to Colgate District Manager. Curt earned his BS in Mechanical Engineering from UC Davis and his MBA from Golden Gate University.

**Paul Robershotte, Special Advisor  
U.S. Army Corps of Engineers**



Selected in October 2008, Mr. Paul Robershotte serves as Special Advisor to the Division Commander for Integrated Water Resource Planning (IWRP). As the Corps' South Pacific Division point of contact, Mr. Robershotte is responsible supporting and collaborating with each state in the development of comprehensive and integrated state specific plans in support of the Water Resource Initiatives for the States of California, Arizona, Nevada, Colorado, New Mexico and Utah. Mr. Robershotte has also served as the President, CEO, and Vice President of multiple companies. He was a Captain and Lieutenant for the Army Corps of Engineers between 1976 and 1981. He earned an M.B.A. from Harvard, an M.S. in Mechanical Engineering from Massachusetts Institute of Technology (MIT), and a B.S. in Mechanical Engineering from MIT.

**Panel 2: Groundwater Storage, Remediation, & Conjunctive Water Management**

**Greg Zlotnick  
Principal, Zlotnick H2O consulting  
Board Member and Groundwater Committee Chair,  
Association of California Water Agencies**



Greg Zlotnick is the principal of Zlotnick H2O consulting. Greg has been actively involved with California water policy for over 25 years, and is a well respected leader in California's water community. Prior to initiating his consulting practice, Zlotnick led the Santa Clara Valley Water District's Office of Delta Policy and Imported Water. Immediately prior to that, he served as an elected member of the District's Board of Directors for over 10 years. Greg has been a member of the Board of Directors of the Association of California Water Agencies since 2000. He has served on numerous state and national water association boards, as well as water related task forces in service to three California Governors. Greg is an honors graduate of Wesleyan University and an alumnus of the University of California, Hastings College of the Law.

**Tim Parker  
Director, Groundwater Resources Association  
Principal, Parker Groundwater**



Mr. Parker's groundwater experience spans more than 25 years and includes water policy analysis, groundwater resources development, groundwater management, groundwater monitoring, and contaminant hydrogeology in public and private sectors. He was previously with Schlumberger Water and Carbon Services, and prior to that with the California Department of Water Resources. He is a California Professional Geologist, Certified Engineering Geologist, and Certified Hydrogeologist. Mr. Parker co-authored the books *California Groundwater Management*, 2nd edition 2005, and *Potential Groundwater Quality Impacts Resulting from Geologic Carbon Sequestration*, Water Research Foundation 2009. He serves the Groundwater Resources Association of California as a Director and Legislative Committee Chair, the California Groundwater Coalition as Director, and the American Ground Water Trust as Chair. Mr. Parker is actively engaged in the Association of California Water Agencies Groundwater Committee.

**David Orth, General Manager  
King River Conservation District**



David Orth is the General Manager of Kings River Conservation District (KRCD), a resources management agency encompassing 1.2 million acres in the central San Joaquin Valley. He also serves as the General Manager of the San Joaquin Valley Power Authority and Coordinator of the Southern San Joaquin Valley Water Quality Coalition. He serves on the Association of California Water Agencies' Groundwater and Energy committees and on the Board of Directors of the Water Education Foundation. He earned his B.S. degree in Business Administration from Fresno State University. David L. Orth became KRCD's general manager in February 2002. Before coming to KRCD, Orth served for two years as Vice President of Resource Management for Woolf Enterprises, a diversified San Joaquin Valley farming operation and from 1995-2000 as General Manager of Westlands Water District. Orth has also served as Westlands director of finance and was a deputy Fresno County treasurer.

**Jon Parker, General Manager  
Kern Water Bank Authority**

Jonathan Parker is the General Manager of the Kern Water Bank Authority. He joined the Authority in March 1999, and has since overseen the construction of much of the Kern Water Bank's infrastructure and the development of its successful recovery programs. He has both Bachelors and Masters Degrees in Geology from California State University, Northridge and a Certificate in Hydrogeology from California State University, Bakersfield. He is a Professional Geologist and Certified Hydrogeologist in the State of California, and has practiced geology for over 25 years.

**John Woodling, Executive Director  
Regional Water Authority / Sacramento Groundwater Authority**



John Woodling is executive director of both the Regional Water Authority, a coalition of more than 20 water purveyors and associated agencies in the greater Sacramento region, and the Sacramento Groundwater Authority, a joint powers agency managing the groundwater basin in northern Sacramento County. Mr. Woodling previously served in several positions at the California Department of Water Resources, managing groundwater programs and directing development of the state's Integrated Regional Water Management Program. Under his leadership, the state invested Proposition 13 bond funds in local agency projects to develop 300,000 acre-feet of new water supply from groundwater storage and conjunctive use. The balance of his 26 year water resources career was spent working on environmental remediation projects and programs with the California Department of Toxic Substances Control, Regional Water Quality Control Board, and Army Corps of Engineers. A professional geologist and certified engineering geologist and hydrogeologist in California, Woodling holds a bachelor's degree in geology from Whittier College and a master's degree in hydrogeology from University of California, Davis.

### **Panel 3: Regional, State, & Federal Surface Storage**

#### **Marguerite Naillon, Special Projects Manager Contra Costa Water District**



Marguerite Naillon joined the Contra Costa Water District in 2001 and is currently the Special Projects Manager for the agency. She is a Professional Civil Engineer with over 22 years of experience in project management, planning, design and construction on a variety of civil, mechanical and environmental engineering projects. She served as Project Manager of the Los Vaqueros Reservoir Expansion Project since the project began in January 2001, including the public vote in 2004 that resulted in over 62% approval for the Project. She manages the ongoing \$17.7 million contract with the California Department of Water Resources as well contracts with Reclamation totaling \$9.5 million. She also manages CCWD's environmental permitting and grants management programs and is responsible for CCWD's regional initiatives such as the

Bay Area Regional Desalination Project and Regional Capacity Study.

#### **Ryan Luster Project Director, Sacramento River Project The Nature Conservancy**



Ryan holds degrees from Beloit College (B.A. Environmental Biology, 1994) and Utah State University (M.S. Range Science, 2001) and has worked in the natural resource management field since 1994. Ryan joined The Nature Conservancy's Sacramento River Project in 2001. In his role as the Sacramento River Project Director, he has applied a foundation of ecology and ecosystem restoration to large-scale restoration planning and integrated floodplain management projects on the Sacramento River between Red Bluff and Colusa. Ryan works closely with partners such as the U.S. Fish and Wildlife Service, CA Departments of Fish and Game, Parks and Recreation, and Department of Water Resources, as well as the U.S. Army Corps of Engineers. Since 2005, Mr. Luster has managed TNC's ecological flows work on the Sacramento River which seeks to provide information on the linkages between

river flow and the habitat requirements of a suite of Sacramento River dependent species.

#### **Thaddeus L. Bettner, General Manager Glenn-Colusa Irrigation District**



Thaddeus L. Bettner is General Manager of Glenn-Colusa Irrigation District (GCID). He has 20 years of experience with irrigation and water agencies in the planning, design, operation and management of water delivery systems on the local, state, and federal level. He has served as GCID's General Manager since 2006. He is an active member of the Northern California Water Association, Association of California Water Agencies, the U.S. Committee on Irrigation and Drainage, and the Glenn County Water Advisory Committee. He currently serves as a Board member of the Power and Water Resources Pooling Authority. He is a registered Civil Engineer with the state of California and holds a Bachelor's degree in Agricultural Engineering from Cal Poly, San Luis Obispo.

**Ronald Jacobsma, General Manager  
Friant Water Authority**



Ronald D. Jacobsma is the General Manager of the Friant Water Authority. Jacobsma has served in senior management positions for the Authority since 1989, focusing on financial and operational issues prior to becoming General Manager in 2003. Jacobsma is a graduate of Mankato (Minnesota) State University where he earned Bachelor of Science degrees in accounting and business administration-finance, and a minor in economics. Jacobsma has been active with the Central Valley Project Water Association, the Association of California Water Agencies, San Joaquin River Task Force, San Joaquin River Group Authority and the Family Farm Alliance. Before joining the Authority, Jacobsma was Chief Financial Officer for a mortgage banking company. He was also a Certified Public Accountant for an international accounting firm, specializing in audits of financial services entities.

**Anson Moran, General Manager  
Delta Wetlands Project**



Anson B. Moran is a consultant and serves as the General Manager of the Delta Wetlands Project. Mr. Moran worked for the City and County of San Francisco for 27 years, during which time he served as General Manager of Hetch Hetchy Water and Power and then as General Manager of the San Francisco Public Utilities Commission. After his retirement in 2000, Mr. Moran served as Senior Policy Advisor to Senator Dianne Feinstein. He currently serves as President of the San Francisco Public Utilities Commission and is on the ACWA Region 5 Board of Directors.

**Grant Davis, General Manager  
Sonoma County Water Agency**



Mr. Davis, as the General Manager of the Sonoma County Water Agency, is responsible for management activities related to the Water Agency's core functions of water delivery, wastewater management, flood protection, and environmental sustainability. An emerging focus of the Water Agency's operations is the development of a secure, clean and renewable energy portfolio. Prior to joining the Agency, Mr. Davis was Executive Director of The Bay Institute, a science-based nonprofit, dedicated to protecting the San Francisco Bay-Delta Watershed and improving water management in California. Mr. Davis currently serves on the University of California President's Advisory Commission for the Division of Agriculture and Natural Resources. He was a member of the California Water Plan Public Advisory Committee and is currently on the Board of the California Utilities Executive Management Foundation. Mr. Davis received his BA in political science from the University of California at Berkeley.

**Michelle H. Denning**  
**Regional Planning Officer, Mid-Pacific Region**  
**U.S. Bureau of Reclamation**



Michelle Denning is the Regional Planning Officer for the Bureau of Reclamation, Mid-Pacific Region. Located in Sacramento, CA, the Region is home to the Central Valley Project, the Klamath Basin Project, the Newlands Project, and several others. Michelle oversees a staff of 40 and is a senior advisor to the Regional Director providing expert counsel on federal planning policy and procedures, as well as strategic advice on programs and activities spanning multiple jurisdictions and resource areas. Ms. Denning began her career with Reclamation in the Planning Division in 2001 as a Senior Project Manager, moving up to the position of Delta & Conveyance Branch Chief in 2003. After assignments including the Sacramento Valley Water Management Program Manager and the Regional Director’s Chief of Staff, Ms. Denning returned to the Planning Division in 2009 as the Regional Planning Officer. Michelle graduated from the University of California at Berkeley, with a B.S. in Forest Management. Prior to joining Reclamation, Ms. Denning worked for the U.S. Forest Service for 10 years as the Land Management Planner in Willows, CA.

**Panel 4: Criteria & Methods for Evaluating Public Benefits of Storage Projects**

**Steve Hatchett, Ph.D., Economist**  
**CH2MHILL**



Steve Hatchett is an economist at CH2MHILL, specializing in water resources. He has over 30 years of experience in California water issues. Dr. Hatchett has led significant economic studies for the California Department of Water Resources, U.S. Bureau of Reclamation, and local agencies. His expertise includes project planning and feasibility, benefit-cost analysis, and economic impact studies. He also served as chairman of an inter-agency Economics Workgroup that recommended standard analytical assumptions and economic methods for surface storage feasibility studies in California. He is currently assisting the California Water Commission and DWR in developing guidelines to quantify public benefits of water projects seeking public funds under SBx7-2. He received his Ph.D. in Agricultural Economics from UC Davis in 1984.

**Anton Favorini-Csorba, Fiscal and Policy Analyst**  
**Legislative Analyst’s Office**



Anton is the water policy analyst for the Legislative Analyst’s Office, where he advises the state Legislature on water, coastal development, and fish and wildlife issues. Prior to joining the LAO, Anton earned a Master’s degree in Public Policy at Duke University and a Bachelor’s degree at UC Berkeley. Anton has worked on various resources issues with a variety of organizations such as the City of Pittsburgh, the Nicholas Institute for Environmental Policy Solutions, the Climateworks Foundation, and the Berkeley Roundtable on the International Economy.

**Spreck Rosekrans, Economic Analyst  
Environmental Defense Fund**



Spreck Rosekrans concentrates in aquatic ecosystems and water delivery systems, and also works in energy. In his 23 years at Environmental Defense Fund, Spreck's work has helped to improve fishery and wetland habitat along the Colorado River in the Grand Canyon, on the Trinity River in northern California and in the San Francisco Bay-Delta watershed. He works with water agencies, Indian Tribes and conservationists throughout California. Spreck is a past Convener of the California Water and Environmental Modeling Forum and served two terms on the State's Water Plan Advisory committee. Currently he is a member of the Trinity Adaptive Management Working Group (Department of Interior) and the Bay-Delta Conservation Plan Management Team. Spreck is a member (and former chair) of Restore Hetch Hetchy board of directors. He earned his B.A. in Mathematics from the University of California, San Diego.

**Glenda Marsh,  
Environmental Program Manager, Statewide Water Planning  
California Department of Fish and Game**



Glenda Marsh is the manager for Statewide Water Planning at the California Department of Fish and Game. She has over 15 years experience in natural resources programs including developing regulations, water quality monitoring, stream habitat restoration, and water resources planning.

**Gregory Gartrell, Ph.D., P.E., Assistant General Manager for Water Resources  
Contra Costa Water District**



Dr. Gartrell received his B.S., M.S., and Ph.D. in Environmental Engineering Science from the California Institute of Technology. He is the recipient of a number of awards including the ACWA Excellence in Water Leadership Award and the Hugo B. Fischer Award for model development of the Bay-Delta System. Dr. Gartrell is an expert in hydraulics and water resources and on Delta hydrodynamics and water quality. He has contributed to many published articles including several relating directly to the Sacramento-San Joaquin Delta. As Assistant General Manager at the Contra Costa Water District (CCWD), Dr. Gartrell has managed Planning, Delta Projects and Water Resources Departments, including: 1) CALFED's Los Vaqueros Expansion Study, 2) Environmental and permitting for CCWD's Los Vaqueros Expansion Project; 3) CCWD's Alternative Intake Project, a pipeline and intake relocation to improve water quality, 4) CALFED's Veale and Byron Tract Drainage water quality projects; 5) CCWD's Future Water Supply Implementation, a fifty year strategic plan for improving the water supply reliability of CCWD; 6) CCWD's 10-year, \$500 million Capital Improvement Program; 7) CCWD's Water Resources group involved in all Bay-Delta activities; 8) CCWD's planning efforts for renewal, replacement and addition to its facilities and infrastructure.