

Agriculture

Joe	Bezerra	California State University, Fresno
Peter	Canessa	California State University, Fresno
Eileen	Cashman	Humboldt State University
Anita	Chaudhry	California State University, Chico
Dave	Goorahoo	California State University, Fresno
Sargeant	Green	California State University, Fresno
Brent	Hallock	California Polytechnic State University, San Luis Obispo
Dan	Hostetler	California State Polytechnic University, Pomona
Eric	Houk	California State University, Chico
Charles	Krauter	California State University, Fresno
Tryg	Lundquist	California Polytechnic State University, San Luis Obispo
Richard	Marcus	California State University, Long Beach
Michael	Spieß	California State University, Chico
Stuart	Styles	California Polytechnic State University, San Luis Obispo
Kaomine	Vang	California State University, Fresno
John	Welty	California State University, Fresno

Environmental

Dirk	Baron	California State University, Bakersfield
Matt	Becker	California State University, Long Beach
Ed	Beighley	San Diego State University
Trent	Biggs	San Diego State University
Julio	Blanco	California State University Bakersfield
David	Brown	California State University, Chico
Ronald	Coleman	California State University, Sacramento
Matthew	Cover	California State University, Stanislaus
Brian	Currier	California State University, Sacramento
Ed	Dammel	California State University, Sacramento
Shawna	Dark	California State University, Northridge
Brad	Finney	Humboldt State University
Philip	Garone	California State University, Stanislaus
Rich	Gossett	California State University, Long Beach
Darwin	Hall	California State University, Long Beach
Don	Hankins	California State University, Chico
Hope	Johnson	California State University, Fullerton
John	Johnston	California State University, Sacramento
Wim	Kimmerer	San Francisco State University
Matthew	Kirby	California State University, Fullerton
Tara	Kneeshaw	California State University, Fullerton
Jamie	Kneitel	California State University, Sacramento
Gary	Li	California State University, East Bay
Karl	Longley	California State University, Fresno

Marc	Los Huertos	California State University, Monterey Bay
Ramzi	Mahmood	California State University, Sacramento
Zed	Mason	California State University, Long Beach
Anthony	Metcalf	California State University, San Bernardino
Stephen	Mezyk	California State University, Long Beach
Stephanie	Molloy	California State University, East Bay
Jean	Moran	California State University, East Bay
Kevin	Murphy	California State University, Sacramento
Steve	Murray	California State University Fullerton
Charles	Nelson	California State University, Chico
Dawn	Neuman	California State University, Channel Islands
James	Noblet	California State University, San Bernardino
June	Oberdorfer	San Jose State University
Matthew	Rahn	San Diego State University
Antonella	Sciortino	California State University, Long Beach
Aric	Shafraan	California Polytechnic State University, San Luis Obispo
Robert	Sheath	California State University, San Marcos
Douglas	Smith	California State University, Monterey Bay
Michelle	Stevens	California State University, Sacramento
John	Suen	California State University, Fresno
Jeff	Thompson	California State University, San Bernardino
Dessie	Underwood	California State University, Long Beach
George	Vourlitis	California State University, San Marcos
William	Wright	California State University, Fresno

Urban

Christian	Carleton	California State University, Sacramento
Michael	Cohen	Sonoma State University
Ramesh	Kumar	California State Polytechnic University, Pomona
Margaret	Lang	Humboldt State University
Juneseok	Lee	San Jose State University
Michael	Lee	California State University, East Bay
Susan	Longville	California State University, San Bernardino
Saad	Merayyan	California State University, Sacramento
Shikha	Rahman	California Polytechnic State University, San Luis Obispo
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Dirk Baron

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Dirk Baron holds a PhD in Environmental Science and Engineering and is currently a Professor of Geology and the Chair of the Department of Physics and Geology at CSU Bakersfield. His core expertise is in the areas of hydrogeology and water chemistry. His research focuses on toxic trace elements such as arsenic and chromium in natural and contaminated subsurface environments. He has also worked as a hydrogeologist for an engineering consulting company and the US Army Corps of Engineers and is a licensed Professional Geologist in the state of California.

Ed Beighley

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Dr. Beighley is an Associate Professor and Associate Chair in the department of Civil, Constriction and Environmental Engineering at San Diego State University. He is the Director of the Soil Erosion Research and Spatial Hydrology Laboratories at SDSU, Vice Chair of ASCE-EWRI's Watershed Management Technical Committee, and the Technical Chair of ASCE-EWRI's forthcoming 2011 Water Congress to be held in Palm Springs, CA. His research area can be generalized as integrating spatial data analysis and large scale hydrologic modeling. Dr. Beighley is also part of a World Bank Project that is rebuilding the civil engineering program at Nangarhar University in Afghanistan.

Trent Biggs

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5500 Campanile Drive, San Diego, CA 92182
I am a geographer interested in the application of remote sensing, GIS, and spatial analysis for characterizing the impacts of regional land use and climate change on hydrologic and biogeochemical processes of significance for human welfare.

David Brown

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David L. Brown, Ph.D., Professor, joined the Geological and Environmental Sciences Department at CSU, Chico in 1997. He teaches courses in hydrology and environmental science. He supervises undergraduate and graduate student research in agricultural nonpoint source pollution, riparian hydrology and restoration, groundwater-surface water interactions, conjunctive use, and pesticide runoff. He has published papers in groundwater hydraulics, agricultural and forestry water quality, mine reclamation, and forest hydrology. Dr. Brown regularly reviews grant proposals for the National Science Foundation, and has served on several national grant review panels. He has served on the Technical Advisory Committee of the Butte County Water Commission.

Matt Becker

Professor
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Dept Geology
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I am the Conrey Chair in Hydrogeology and a Professor of Geology. Prior to arriving at CSULB I was at the University at Buffalo for 10 years. My area of research is ground water with a specialization in fractured rock hydrology.

Joe Bezerra

Executive Director
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Joe Bezerra is the founding Executive Director of the California State University Agricultural Research Initiative and the Director of Operations of the California Agricultural Technology Institute. He has leadership experience in California government policy and agricultural as well as higher education. He is a Fellow of the California Agricultural Leadership Program, National Council of University Research Administrators, and USDA Hispanic Serving Institutions. He has served as the Julio R. Gallo Director's Chair at California State University, Fresno and interim director of the Center for Food Science and Nutrition Research and Center for Agricultural Business.

Julio Blanco

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9001 Stockdale Highway, Bakersfield, CA 93311-1022
Dean of the School of Natural Sciences and Mathematics since 2006 at CSUB. Prior, Chair of Physics and Astronomy at CSUB for five years. Interested in promoting water research at CSUB as part of an overall energy center to be developed at CSUB.

Peter Canessa

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MS Irrigation and Drainage 1977 Utah State Univ., Registered Engineer in California, Lectured at Cal Poly, SLO and CSU, Fresno , Consulting for water, energy, and water quality management e.g., San Diego County Water Authority - development of SDCWA/IID water transfer, PG&E (since 1991) ag energy efficiency programs, Washington State - author manual on BMPs for water quality (<http://cru84.cahe.wsu.edu/cgi-bin/pubs/EM4885.html>), Netafim USA, RainBird, Eurodrip Intl. - irrigation system design programming, Macquarie Valley, NSW, Australia (farm and district level) water conservation, Currently Manager of the Ag Pumping Efficiency Program (www.pumpefficiency.org) at CSU, Fresno.

Christian Carleton

Hydrologist

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Christian Carleton is a professional hydrologist specializing in natural system hydrology, with experience in stream hydrology, fluvial geomorphology, watershed and hillslope hydrology, investigation of hydrologic pathways, aqueous geochemistry, and stormwater. His professional experience includes an extensive knowledge of both field and analytical techniques. He has GIS and numerical software experience including various hydrologic, hydraulic, and water quality models. In addition to being active in research, Christian stays current with new advancements and issues in hydrology and water quality as an active member of several professional societies and through regular participation with local watershed and resource groups.

Eileen Cashman

Associate Professor

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Associate Professor of Environmental Resources Engineering at Humboldt State University. My main areas of relevant research include environmental hydraulics, sediment transport and watershed water quality. I have conducted a combination of field, modeling and laboratory work in the context of aquatic ecosystem restoration.

Anita Chaudhry

Assistant Professor

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Anita Chaudhry is originally from Pakistan and has come to Chico from Laramie, Wyoming where she completed her doctoral work in economics at the University of Wyoming. She is interested in environmental and natural resource problems especially as they relate to economic growth and development. She has spent the last 10 years working on different aspects of economic and environmental impacts of water scarcity in western United States as well as in Pakistan, Nigeria and Uzbekistan. Before coming to Chico as an assistant professor of economics, she had worked for the International Water Management Institute in Lahore, Pakistan and Resources for the Future in Washington D.C.

Michael Cohen

Assistant Professor of Biology

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As the Environmental Microbiologist at Sonoma State University I am involved in collaborative interdisciplinary research into microbiological processes involved in wastewater treatment. A project funded by the California Energy Commission and Bay Area Air Quality District is investigating the utility of constructed wetland systems in removing nitrate and estrogenic activity from treated wastewater. Aquatic vegetation harvested from the systems is used as an anaerobic digester feedstock to generate biogas for production of electricity. I have recently begun to collaborate with Dr. Tryg Lundquist of CSULO, who will be attending this WRPI meeting.

Ronald Coleman

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I teach such courses as fisheries biology and animal behavior at both the undergraduate and graduate levels. My students and I investigate the reproductive and evolutionary ecology of fishes, including both California freshwater and marine fishes as well as tropical freshwater fishes. Recent California projects include egg size evolution in salmonids, the effect of woody debris on salmon reproduction and the reproductive ecology of plainfin midshipmen.

Matthew Cover

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PhD. 2008. Environmental Science, Policy, and Management, University of California, Berkeley. B.A. 2002. Earth Science (High Honors), University of California, Berkeley. The common theme of my research is the effects of hydrologic and geomorphic processes (landslides, debris flows, sedimentation, floods) on stream ecosystems, with a focus on aquatic insects and salmonid fishes. Major goals of this work are to relate these physical and ecological processes to historic and present-day forest management practices, and to inform future restoration efforts. My current research examines the importance of riparian forests in the Central Valley as habitat for arthropod communities.

Brian Currier

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Brian Currier holds B.S. and M.S. degrees in Environmental Engineering from the University of California, Davis, and is a California-licensed Professional Engineer. He performed a survey of NPDES costs for the State Water Resources Control Board and served on the Blue Ribbon panel convened to consider the feasibility of numeric effluent limits. Brian has been involved in Caltrans stormwater research since 1997. He is currently a research engineer with the Office of Water Programs at California State University, Sacramento.

Shawna Dark

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I am a professor in the Department of Geography. I teach courses in GIS and Environmental Geography. I recently have been involved in a variety of wetland based projects, the biggest of which is a project with SCCWRP and USFWS to map wetlands along the coast of southern California. I hope to continue to find and fund projects to educate my students about water resource issues in southern California.

Philip Garone

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My area of specialization is Environmental History. I completed my Ph.D. in History and an M.S. in Ecology at the University of California, Davis. My current research is an ecological history of wetlands in California's Central Valley, the importance of those wetlands to migratory waterfowl of the Pacific Flyway, and the ways in which the fate of California's wetlands has been intrinsically tied to the state's water development projects. I am completing a manuscript on this subject for the University of California Press, entitled *The Fall and Rise of the Wetlands of California's Great Central Valley*.

Rich Gossett

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I have 32 years of experience in the environmental chemistry field. I have recently taken the position of Director at the Institute for Integrated Research in Materials, Environment, and Society (IIRMES) at CSULB. Prior to that I owned and operated a private environmental laboratory for 13 years, supervised the organics laboratory at Orange County Sanitation Districts for 5 years, and did research into the fates and effects of waste disposal in the ocean at the Southern California Coastal Water Research Project for 14 years.

Ed Dammel

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Ph.D. in environmental engineering at UC Davis in 1997, dissertation examined biodegradation of TCE using nitrifying bacteria. Completed a one and one-half year post-doc helping Caltrans with storm water quality issues. I have been a faculty member in the Department of Civil Engineering at California State University, Sacramento since 1997. I teach environmental engineering at both the undergraduate and graduate levels. Current interests include bringing state of practice issues related to water into the curriculum.

Brad Finney

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Brad A. Finney is professor of Environmental Resources Engineering at Humboldt State University in Arcata, California. He received his MS and PhD in Civil and Environmental Engineering from Utah State University. His research and consulting expertise includes surface and groundwater modeling, constructed wetlands for wastewater treatment, wastewater facility planning and management, and the optimal management of water resources systems.

Dave Goorahoo

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I am currently an assistant professor in the Plant Science Department and a Soil Scientist with the Center for Irrigation Technology (CIT) at California State University, Fresno. I teach courses in Food-Society and Environment, Vegetable Production, Organic farming and oils in the Environment at the Undergraduate level and course in related to Soil- Plant- Water and Energy interactions at the graduate level. My AgEnviro research focuses on nutrient and water use efficiency in vegetable crop production systems with an emphasis on examining the impact of agricultural practices on the environment.

Sargeant Green

Project Director

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Sarge Green is currently employed at the California Water Institute at California State University Fresno to assist in the development of a San Joaquin Valley Regional Water Management Plan. The Plan is a goal of both the California Partnership for the San Joaquin Valley chartered by the Governor and the Valley Congressional delegation led by Congressmen Cardoza, Costa, Nunes and Radanovich. The goal of the plan is to develop an optimum mix of management solutions that attain water supply reliability, flood protection, water quality conditions appropriate for all beneficial uses and reasonable environmental restoration and enhancement. An additional assignment is to develop an on-campus integrated water management plan for Fresno State.

Darwin Hall

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Ph.D. Economics, UC Berkeley, 1977. , M.A. Statistics, UC Berkeley, 1973. M.S. Agricultural Economics, UC Berkeley, 1973., Member, Los Angeles Mayors Blue Ribbon Committee (BRC) on Water Rates, 1991-1995. Consultant, Metropolitan Water District of Southern California, World Bank, Cities of Riverside, Los Angeles, Anaheim, power producers. 1978, Economist, California Energy Commission., 1979, Economist, Department of Water Resources., Published over 100 articles, book chapters, books, & reports on electricity, water rate design, water pollution, air pollution, climate change, pesticides, integrated pest management, natural resource scarcity, economic theory, and econometrics.

Brent Hallock

Professor

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Brent is the past Chair of the Earth and Soil Sciences Department at Cal Poly, San Luis Obispo. He teaches an undergraduate course in Soil Erosion and Water Conservation and a graduate course in Environmental Assessment for Erosion Control. Brent earned Cal Poly's highest award of Distinguished Teacher in 2000. He has taught over 35 seminars and short courses in site analysis, vegetation establishment for erosion control, and assessment of management measures and practices. Brent's research grants with Caltrans, RWQCB, EPA, and environmental firms on the use of vegetation in erosion control and water quality total over 4 million dollars in the past eight years. Brent arrived at Cal Poly in 1979 and is a CPSS and CPESC.

Don Hankins

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Don Hankins is an assistant professor of Geography and Planning at CSU Chico. His teaching includes water resources policy and planning. He has career experience in the field of conservation biology and environmental planning, and has worked for federal, tribal, and non-governmental organizations.

Dan Hostetler

Department Chairman

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Professor and Department Chairman of the Plant Science Department in the College of Agriculture. Also Director of Farm Operations for 5 operations and the new Farm Store at Kellogg Ranch. Responsible for irrigation on 1500 acres of State owned properties-via linear, drip, wheelines and sprinklers.

Eric Houk

Associate Professor

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Dr. Houk is an Associate Professor of Agricultural Business at California State University, Chico. His primary areas of expertise include Natural Resource Economics and Agricultural Production Economics. Dr. Houk has published a variety of articles relating to the economics of water allocation and water conservation in the western United States. Specifically, he has examined the economic impacts of water transfers from agriculture for endangered species preservation, the economic effects of irrigation induced waterlogging and soil salinization, and the impact of water conservation efforts on residential water demand.

Hope Johnson

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Assistant Professor, Biological Sciences, CSUF. Our lab is interested in the many ways bacteria interact with metals, specifically bacteria that oxidize manganese. We do not fully understand how or why bacteria oxidize this metal. Techniques in microbial physiology, molecular biology, and biochemistry will be used to answer this question. An understanding of how bacteria oxidize manganese will not only give us insight into the striking diversity of microbial life but can also give us important tools for bioremediation.

John Johnston

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Civil Engineering
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John Johnston is a Professor of Civil Engineering at California State University Sacramento. Since 1999 he has split his time between the classroom and the Office of Water Programs where he is a technical consultant on the Caltrans stormwater research program. Before coming to Sacramento State, John was a faculty member at Fresno State. In addition he has worked for the Corps of Engineers and private consultants. John received his PhD from UC Davis and is a registered civil engineer in California.

Wim Kimmerer

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My laboratory focuses mainly on the ecology of the San Francisco Estuary. I have published recent papers on physical dynamics, phytoplankton, zooplankton, fish, and the intersection of human activities with ecosystem performance. A particular interest is the effects of altered freshwater flow regimes on the estuarine ecosystem. Tools include field and laboratory investigations, simulation modeling, and statistical analysis. I have worked in an advisory or review capacity to various government agencies on such topics as freshwater flows and diversions, introduced and listed species, adaptive management, and long-term conservation planning.

Matthew Kirby

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Matthew Kirby received his AB from Hamilton College, MSc from the University of Colorado, and PhD from Syracuse University. He uses lake sediments to reconstruct past climate including the history of droughts and floods in Southern California.

Tara Kneeshaw

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My primary area of research is in environmental biogeochemistry. My research is focused in using and developing new approaches to measure the behavior of elements such as C, O, N, P, S and Fe in modern terrestrial and aquatic habitats. In particular I have been interested in predicting chemical form, mobility, and toxicity, through evaluation of key kinetic controls on rates of biogeochemical reactions in dynamic natural environments. My research is interdisciplinary in nature and I utilize fundamental knowledge in thermodynamics, geochemistry, microbiology, and hydrogeology to study the fate of chemicals in natural systems. The ultimate goal of my research is to aid in the development of cost effective and environmentally friendly techniques for remediation of contaminated systems.

Jamie Kneitel

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I received my B.A. from University of California, Santa Cruz, M.S. from California State University, Northridge, and a Ph.D. from Florida State University. After 2 years as a postdoc at Washington University in St. Louis, I became a professor at CSU Sacramento in 2004. I am interested in understanding the mechanisms that produce and maintain patterns of species diversity and its consequences for ecosystem functioning and conservation. My research ecosystems (California vernal pools and Sierra Nevada sub-alpine meadows) depend on water to function. In both systems, I have been addressing questions related to biodiversity, food-webs, nutrient inputs, and ecosystem functioning.

Charles Krauter

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Professor of soil and water science in the Plant Science Dept, College of Ag Sci & Tech. at CSU Fresno and Coordinator of Air Quality Research in the Center for Irrigation Technology at CSU Fresno.

Margaret Lang

Professor

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I am a Professor and licensed engineer with teaching and research interests in hydrology, hydraulics and water quality measurements and modeling. Example research interests are watershed restoration, hydrologic predictions, and natural system hydraulics.

Michael Lee

Associate Professor

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I have 20 years of experience in water resources and watershed management. My Ph.D. is in the area of hydrology and water resources modelling. I have worked as a researcher, teacher and consultant in Central America, Africa, Australia, Europe and the United States. Since 1996, I have taught at CSU East Bay specializing in the areas of water resources and watershed management, natural resources management, and sustainable development. Prior to teaching, I worked as a conservation specialist for the East Bay Municipal Utility District and as a consultant for California water agencies on Integrated Water Resources Planning and reliability assessment.

Karl Longley

Water Resources Coordinator, California Water Inst

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His Education includes a B.S. degree in Civil Engineering from the University of New Mexico, and a M.S. degree in Sanitary Engineering and Water Resources and a Doctor of Science degree from the Johns Hopkins University. Registered professional engineer in California and Maryland. Currently the Water Resource Programs Coordinator for the California Water Institute. Serving as a Board Member of the Central California Regional Water Quality Control Board, a position he has held for over seventeen years. Board Members are responsible for overseeing a number of activities including the development of basin plans, issuing waste discharge requirements, taking enforcement action against violators, and monitoring water quality.

Ramesh Kumar

Professor

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Teach Landscape Irrigation related courses at Cal Poly, Pomona. We had the only 4 year degree program in Landscape Irrigation in the country. I along with other faculty have also been involved in research on urban irrigation issues like runoff, uniformity of distribution, PVC fittings etc.

Juneseok Lee

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Dr. Lee is currently employed as an assistant professor in the Department of Civil and Environmental Engineering within San Jose State University (from 2008 fall semester). He finished his MS and Ph.D. both from Virginia Tech. His concentration was in Environmental Water Resources Program within the Department of Civil and Environmental Engineering. His research interests include sustainable drinking water infrastructures, water energy nexus,

Gary Li

Professor

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Gary Li is a professor of geography and GIS. His teaching and research interests are in watershed hydrological process analysis and modeling using physical models, numerical models, and geographic information systems. His publications appear in top level refereed journals, such as Water Resources Research, Journal of Hydrology, Catena, Earth Surface Processes and Landforms etc. He is currently conducting research on overland flow dynamics within a watershed.

Susan Longville

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Susan Lien Longville was appointed the Director of the Water Resources Institute (WRI) at California State University San Bernardino in June of 2006 after serving as the Associate Director for three years. She has an extensive background in Southern California water issues and is recognized for her expertise in multi-objective management strategies. Under Susan's leadership, the WRI is partnering in number of integrated watershed projects that promote sustainable land use practices which minimize the impact to the watershed values, flow regimes and groundwater recharge.

Tryg Lundquist

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Tryg Lundquist, Ph.D., P.E. is an Assistant Professor of Environmental Engineering at Cal Poly, SLO. He teaches water and wastewater engineering, water chemistry, animal waste management, and Senior Design courses. He directs research to develop improved techniques for reclamation of wastewaters from municipalities, industries, and agriculture (confined animal facilities, selenium-laden drainage, wildlife refuges). In addition, he works on assessment of algae biofuel schemes and a point-of-use drinking water treatment device.

Richard Marcus

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International Studies Program
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Richard R. Marcus is Assistant Professor and Director of the International Studies Program at CSULB. He is currently writing up the research results for his book manuscript Beyond the Water's Edge: The Relative Power of Community, looking at the way in which decentralization in the water sector has disempowered agro-pastoral populations in Madagascar and Kenya and threatened resource access. He is also the Principal Investigator for the water policy and politics task of the USDA-funded SE Climate Consortium (focused on improving water supply options for farmers) and is Team Leader for the World Banks social accountability project in Madagascar.

Marc Los Huertos

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Marc Los Huertos (Ph.D. U.C. Santa Cruz, 1999) is an Assistant Professor in the Division of Science and Environmental Policy at CSU Monterey Bay. His interests include aquatic ecology, nitrogen cycling, research methods and experimental design, water quality, and agroecology. Current research activities include both watershed and estuarine systems along the Central Coast of California.

Ramzi Mahmood

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Dr. Mahmood is Professor and Chair of Civil Engineering Department at California State University, Sacramento. He is also the Director of Office of Water Program (since 1997), the National leader for the development and distribution of training materials for operators of water and wastewater treatment plant. The Office of Water Programs has been very active in the area of evaluating Best Management Practices (BMPs) for stormwater runoff from transportation facilities.

Zed Mason

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Dr Mason received his Ph.D. from the University of Wales in 1983 and subsequently completed a NERC Post Doctorate at the University of Reading, followed by a MRC Post Doctorate at the University of Sussex, UK. Dr Mason joined CSULB in 1989 after a brief appointment at the University of London. He is the Founding Director of the Institute for Integrated Research in Materials Environments and Society, is currently the Associated Dean for Research in the College of Natural Sciences and Mathematics at CSULB and is a member of the Executive Council for COAST, a sister organization to WRPI.

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I am the lead faculty in water resources and responsible for the improvements of the curriculum and the laboratory facilities. I have worked on various projects with Caltrans through the Office Of Water Programs at Sacramento State. I am also coordinating with resources agencies and local engineering community related to the direction of the profession of civil engineering. My areas of interest are related to climate change on water resources management, watershed analysis and numerical studies.

Anthony Metcalf

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A central focus of my research is the genetic structure of populations of fresh water vertebrates. I am examining the role of watersheds in shaping biodiversity, and how the interaction of environmental events such as fire and flood impact genetic diversity and population persistence. Of immediate interest are the watersheds of southern California, and in particular, the Santa Ana watershed of inland southern California.

Stephen Mezyk

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Department of Chemistry and Biochemistry
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Associate Professor of Physical/Environmental chemistry.
Research interests in water remediation, through chemical contaminant removal using radicals. Measurement of kinetics, efficiencies, and reaction mechanisms of radical destruction of organic contaminants such as steroids, antibiotics, personal care products, carcinogens and pathogens in drinking and waste waters. Collaborate with environmental engineers, and water utilities (Orange County Water District) for large-scale implementation of advanced oxidation processes clean-up systems.

Stephanie Molloy

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My research interests include water quality microbiology and marine biofilm ecology. I am interested in microbial pollution source tracking in both coastal and inland waters - specifically in the development of source-specific genetic markers, and in understanding the transport and fate of pollution indicator organisms and pathogens in surface water and sediments. My research also currently includes investigating the effect of metals pollution on microbial biofilm communities in San Francisco Bay. Heavy metal contamination of San Francisco Bay waters may not only affect human health of recreational users and seafood gatherers, but also the health of the ecosystem. Biofilm organisms can accumulate heavy metals from polluted water, however species composition is likely to change in the presence of heavy metals. My lab is investigating whether shifts in microbial community composition of biofilms in the natural environment of San Francisco Bay can be used to indicate heavy metal pollution of the water.

Jean Moran

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Dr. Jean Moran is on the faculty in the Department of Earth and Environmental Science, at California State University, East Bay. Her research focuses on using natural and artificial isotopes to examine geochemical and transport processes in the vadose zone and in groundwater. She was principal investigator and LLNL project director for the Groundwater Ambient Monitoring and Assessment project sponsored by the California, State Water Resources Control Board from 2001-2007. Dr. Moran has a Ph.D. in Geochemistry from the University of Rochester, Bachelors degrees in physics and geology from the University of Rochester and a Masters degree in geophysics from the University of Washington. She serves on the board of directors of the Groundwater Resources Association of California.

Kevin Murphy

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Engineering Manager for Sacramento State Office of Water Programs (OWP) Stormwater Research Group for the past 9 years. Prior to working with OWP, nine years experience working as an environmental consultant (Radian Corporation) mostly focused on groundwater and soil remediation. B.S. in Civil Engineering from Cal Poly Pomona and an M.S. in Environmental Engineering from Stanford University.

Steve Murray

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Dr. Murray's research interests include marine herbivory and the ecology of coastal populations and communities. He is lead author of *Monitoring Rocky Shores*, a book published by University of California Press, and is a principal investigator in MARiNe (Multi-agency Rocky Intertidal Network), a collaboration of scientists and agency representatives analyzing the spatial and temporal dynamics of rocky intertidal populations. Dr. Murray currently serves as co-chair of the Science Advisory Team for California's Marine Life Protection Act and is a member of the Areas of Special Biological Significance Natural Water Quality Committee.

Charles Nelson

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He was the director of the Geographical Information Center (GIC) until he retired at the end of 2008. He has 35 years with the State of CA and started the GIC in 1988. The GIC is an applied GIS lab (auxiliary of the CSU, Chico Research Foundation) whose projects include agricultural, urban and environmental efforts. The center contracts with federal, state and local government. He is continuing to work part time as an annuitant offering my expertise and helping the center search for funding opportunities.

Dawn Neuman

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Prior to her arrival at CSUCI on July 14th 2008, as Provost and Vice President of Academic Affairs, Dawn Neuman served the University of Nevada, Las Vegas for 17 years as the Vice Provost for Academic Resources, Vice Provost for Educational Outreach (formally known as the College of Continuing Education) and Chair of the Department of Biological Sciences, as well as the campus co-officer in charge during a year long search for a new provost. She was active in both public outreach and faculty human resources and published numerous papers in her specialization of plant environmental stress root physiology and transport. Dr. Neuman received bachelors and masters degrees in Biology/Botany from California State University, Long Beach and a PhD in Forest Resources from the University of Washington (Seattle).

James Noblet

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He is an Environmental Chemist with a broad range of interests and expertise in water quality and pollution issues. He is also interested in the long term availability and sustainability of water and energy resources in California, the US and globally.

June Oberdorfer

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Dr. Oberdorfer is a hydrogeologist who has worked extensively with groundwater contamination issues in northern California, including at Lawrence Livermore Ntl. Lab. and as a technical advisor for public interest groups. She is currently an expert witness for the US Dept. of Justice in the Antelope Valley Groundwater Adjudication cases. Her recent research has focused on quantifying groundwater discharge in the coastal zone as part of an international group of earth and marine scientists interested in coastal water quality. She is a registered Professional Geologist and Certified Hydrogeologist in the State of California.

Shikha Rahman

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Shikha Rahman received her Ph. D. degree from Georgia Institute of Technology in Civil Engineering. Her specialization is in Water Resources Engineering and the research interests include environmental hydraulics, experimental fluid mechanics, turbulence, plume tracking, sediment transport, scientific visualization, open channel hydraulics, and surface water hydrology. Shikha has publications in leading journals on engineering education, experimental fluid mechanics, limnology, and visualization. She holds membership in several professional associations and also a Registered Professional Engineer (PE).

Matthew Rahn

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Dr. Rahn serves as the research and development director for the SDSU Field Stations Program. He currently serves on the Board of Directors for the RCD and the Sustainability Partnership.

Currently, his emphasis is on water quality monitoring through wireless sensor networks, watershed management, and habitat restoration. Dr. Rahn also works on regulatory and policy issues related to water rights, quantity, and quality.

Antonella Sciortino

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She joined the Department of Civil Engineering and Construction Engineering Management at California State University, Long Beach in January 2004. She received her 'laurea' (B.S.) in civil engineering with a minor in Hydraulic Engineering from the Politecnico di Bari, Italy and her M.S. and Ph.D in Civil Engineering, with Water Resources Systems as specialty, from the University of California, Los Angeles. She was a 1996 Fulbright scholar. Her research focuses on groundwater and vadose zone processes with emphasis on numerical modeling. Research topics include modeling dissolution from DNAPL pools, inverse modeling for parameter estimation, optimization strategies to locate pollutant sources used in forensic contaminant hydrology and to design groundwater pumping. The focus of her recent research is the impact of alternative fuels on subsurface quality.

Aric Shafran

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Aric Shafran is an Assistant Professor of Economics in the Orfalea College of Business at Cal Poly. His research spans several areas of economics, including environmental economics, experimental economics, and decision making under risk and uncertainty. He has recently worked on projects on the economic evaluation of river restoration projects and on the economics of wildfire risk management. He was also instrumental in starting up an experimental economics lab at Cal Poly. He currently teaches Urban Economics, the Economics of Land and Water, and Principles of Microeconomics at Cal Poly.

Robert Sheath

Professor

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Professor of biological sciences currently working on a Prop 50 grant and on SWAMP (surface water ambient monitoring program) funding to survey streams throughout the state for water quality and the use of freshwater algae to create an index of biotic integrity. These data will also be used for a monograph on the freshwater algae of California contracted by University of California Press.

Robert Slobodian

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Robert Slobodian was appointed Director of the Interdisciplinary Spatial Information Systems Center, California State University, Fresno in 2001. His previous 31 years in post-secondary education in Canada and the United States consisted of Human Geography, Computing Science and Geographic Information Systems appointments. To further the outreach mission of the ISIS Center he has organized and held executive positions such as; Vice-Chair—California GIS Council, Chair—San Joaquin Valley Regional GIS Council and Chair—Mid-San Joaquin Valley Regional GIS Collaborative.

Douglas Smith

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Dr. Douglas Smith received a Ph.D. from U.C. Santa Barbara in Geological Sciences. He is an Associate Professor in the Division of Science and Environmental Policy at CSU Monterey Bay. He teaches Geology, Geomorphology, and Hydrology in undergraduate and graduate courses. Advanced courses have GIS, geospatial analysis, hydraulics, hydrology, sediment transport, river restoration and computer modeling components. Dr. Smith's watershed research includes the impact of upland wells on base flow, urban and wildland river restoration, fire impacts on streams and water resources, and combining LiDAR with seafloor mapping technology to quantify reservoir capacity.

Michael Spiess

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Michael Spiess teaches irrigation, GIS, and machinery at Chico State. His past experience includes work at the Center for Irrigation Technology and ATI-Net at CSU, Fresno.

Michelle Stevens

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Over 20 years experience in riparian/ wetland research, including expertise in California environmental regulations (Clean Water Act, Endangered Species Act, NEPA, and CEQA), environmental policy, watershed planning and community groups, public outreach/ education and restoration planning and implementation. Over 20 years experience as restoration ecologist working with research institutions, state and local governments, and private sector (consulting and Non-Government Organization non-profit) on riparian and wetland restoration. Experience includes scientific research on restoration trajectories, writing restoration plans with associated permit requirements, and providing education on restoration policy and implementation. Managed \$5 million restoration contracts for CA Department of Water Resources Flood Protection Program.

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Dr. Styles is currently Director of the Irrigation Training and Research Center (ITRC) at California Polytechnic State University, San Luis Obispo (Cal Poly) and is also an associate professor in the Cal Poly BioResource and Agricultural Engineering Department. He teaches Principles of Irrigation, Hydraulics, and Agricultural Structures Design. His current research interests include irrigation modernization, drip irrigation and emerging electronic flow measurement technologies. Dr. Styles has over 20 years of field experience in irrigation as a consultant and engineer, former Chairperson of IA Certification Board of Governors, former member of the Irrigation Association Board of Directors, and in 2004 was awarded the Irrigation Association Person of the Year. Dr. Styles is a Registered Civil Engineer in California and is a Certified Irrigation Designer with BS and MBA degrees from Cal Poly and a Doctorate in Engineering from UC Davis, California.

John Suen

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Dr. John Suen is a Professor at CSU Fresno and has served as chair of the Department of Earth and Environmental Sciences, and founding Program Coordinator of the UC Riverside - CSU Fresno Joint Degree Program in Environmental Sciences. Dr. Suen was a (full) Scientist at Brookhaven National Laboratory where he developed hydrogeologic models of radioisotope transport in the subsurface. He also did research work on heavy/enhanced oil recovery. Dr. Suen's current research interests include contaminant hydrology, and hydrology of fractured rocks. Dr. Suen has served on a number of advisory capacities, including an EPA Science Advisory Board review panel. He is a registered Professional Geologist.

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Dr. Thompson received his B.S. in physics from Michigan State University in 1972 and his Ph.D. in molecular biophysics from Florida State University in 1976. After 6 years at the National Institutes of Health, he joined the College of Medicine, Department of Cell and Structural Biology, at the University of Illinois, Urbana-Champaign. In 1988, he moved to the Department of Biology, California State University, San Bernardino where he has taught cell physiology, neurobiology, and electron microscopy. He served as Chair of the Biology Department from 1998 to 2005. He is currently the Associate Provost for Research.

Dessie Underwood

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Since 2005 my research lab has been conducting bioassessment in the Santa Ana and San Jacinto watersheds. Bioassessment is a direct measurement of the ecological health of a freshwater system. Focusing on the benthic macroinvertebrate communities that characterize our freshwater streams and rivers, we collect data that lead to the calculation of indices of biotic integrity. These indices can identify specific geographic areas that are unusual; some areas may support extraordinary biodiversity and while others support a depressed level of biodiversity. Understanding the factors that drive these patterns of biodiversity within our freshwater systems is fundamental.

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Professor of landscape irrigation science courses in the Plant Science Department since 1980. Active in research on landscape irrigation water management issues and technology in the Center for Turf, Irrigation and Landscape Technology. Students projects are integrated in the research projects. Retired in 2004 and currently teaching one course each quarter and assisting with student projects and the PLANET Student Career Days team.

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My research area is in terrestrial ecosystems ecology, including carbon, nutrient, water cycling, and global change.

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Dr. Wright began his career with Black & Veatch consulting engineers after earning a BS degree in Civil Engineering from UC Berkeley in 1986. Following that he earned MS and PhD degrees in Civil and Environmental Engineering at UC Davis and has been a faculty member in Civil Engineering at CSU Fresno since 1999. He is responsible for courses in environmental and water resources engineering. His research interests include water and wastewater treatment with an emphasis on removal of taste and odor compounds and nitrate; and vapor-phase biofiltration (an air pollution control technology that utilizes microorganisms to degrade volatile contaminants).

David Zoldoske

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Director of the California Water Institute at California State University, FRESNO, and serves as the Executive Director for the Water Resources and Policy Initiatives for the California State University system. Major areas of emphasis cover water use in agriculture, urban, and the environment, and include policy, education and training, equipment testing and economic development.

David has served as president of the Irrigation Association and president of the California Chapter of the American Society of Agronomy. Additionally, he served as vice-chair for the AB2717 Landscape Task Force. David has authored or co-authored over 100 articles on irrigation and water technology, and most recently completing a book titled "Golf Course Irrigation: Environmental Design and Management Practices."