



The California State University  
WATER RESOURCES AND POLICY INITIATIVES

[www.calstate.edu/water](http://www.calstate.edu/water)

# WRPI 8<sup>th</sup> Annual Conference April 28-29, 2016 Long Beach, CA



URBAN

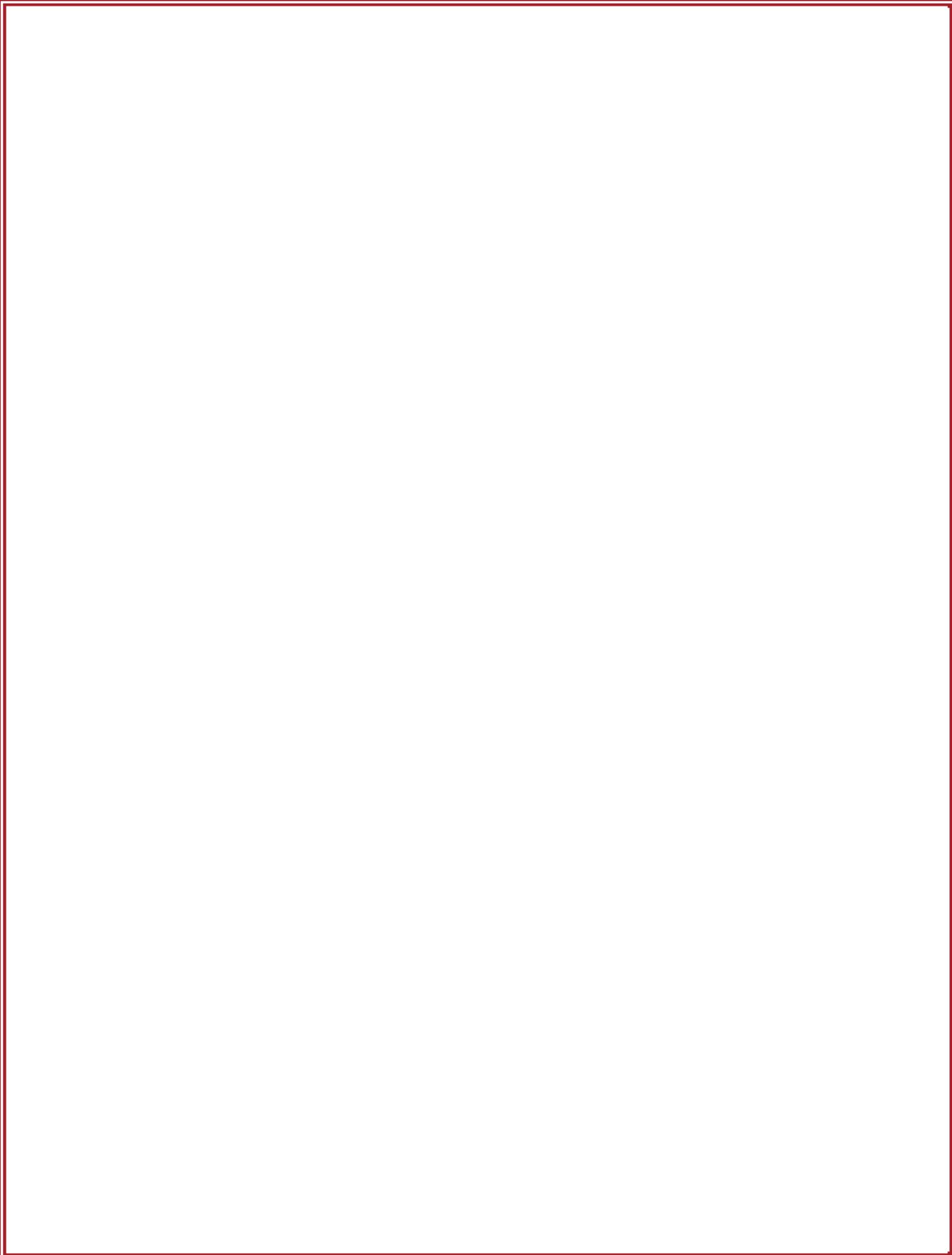


ENVIRONMENTAL



AGRICULTURAL





## Vision

The Water Resources and Policy Initiatives (WRPI) will help achieve a long-term, sustainable water supply for California through education, research, and policy development while balancing the needs of urban, agricultural, and environmental concerns.

## Mission

The Water Resources and Policy Initiatives will link the capabilities and resources within the 23 California State University campuses to provide academic preparation, applied research, and policy development that addresses all aspects of water use. WRPI optimizes and links the many centers and programs of excellence within CSU on water issues. The scope of WRPI activities include:

- Provide critical faculty- and staff-based expertise to support California's need for appropriate and sustainable water resources in the 21st century.
- Promote education, training, and professional capacity development with the water industry, governmental agencies, and the wider community.
- Develop new and advanced water technologies and services to help drive economic development and job creation.

WRPI will also enhance the universities' ability to attract exceptional students and faculty by providing a culture of collaboration and innovation within a multidisciplinary water curriculum.

## Key Goals

The goals listed below support the key elements in the WRPI mission. The goals reflect the CSU comparative advantage in addressing current and emerging statewide water issues. WRPI will be a leading resource for:

**Partnerships with the water industry and government agencies** – WRPI will engage a broad group of water industry stakeholders and government agencies to leverage university resources to pursue the development of “good science” from which to base decision making and emerging water policy.

**Education, training, and professional capacity building** – WRPI will raise awareness of careers in water and develop academic pathways for the next generation of professionals to meet the needs of businesses, government officials, tribal nations, water professionals, and the general public through outreach and training programs, professional capacity building, university curriculum development, and formal post-secondary and graduate education.

**Technology and economic development** – WRPI will provide a strong science base and business development support to help commercialize new ideas in water industries, services, and professions in California. The outcome will be a creative climate of innovation, furthering economic growth in water technology.

# WRPI Annual Conference Agenda

April 28, 2016

California State University Long Beach, The Pointe Education & Conference Center

## ***"Big Water Projects, Innovation, and the New Reality"***

8:00 am	Conference Registration and Continental Breakfast	
8:45 am	<b>Conference Overview</b>	Boykin Witherspoon
9:00 am	<b>Welcome</b>	President Jane Close Conoley
9:15 am	<b>Quick Introductions</b>	All
9:45 am	<b>State Water Projects</b> <i>-Salton Sea Management Program</i>  <i>-Protecting the Delta as Place: Levees, Human History, Fish, and Public Policy</i>	Kent Nelson, CA Dept of Water Resources  -Philip Garone, CSU Stanislaus (moderator) -Blake Roberts, Delta Protection Commission -Horacio Ferriz (faculty) and Stacey Galbreath (student), CSU Stanislaus -Steve Blumenshine (faculty) and Taylor Spaulding (student), Fresno State
10:45 am	Network	Gallery / Summit Room
11:00 am	<b>Industry/Agency and Innovation</b>	-Rick Bacon, Aqua Metrology Systems -Derek Stephens, ABR Process Development -Andrew Yeghnazar, Water Technology Hub -Steve Gruber, Burns & McDonnell
12:00 pm	Lunch	
12:45 pm	<b>Student Poster Session</b>	Gallery
1:30 pm	<b>Drought and Climate Change</b> <i>-Campus Evapotranspiration Modeling Compared to Actual Water Consumption</i>  <i>-Campus Water Management in a Changing Climate</i>  <i>-Managing Water During Times of Drought</i>	Boykin Witherspoon, WRPI  Kyle Mann, CSU Fullerton  Tanisha Martin-Chiles, San Diego State (student)
2:10 pm	Network	Gallery / Summit Room
2:30 pm	<b>CSU Faculty Presentations</b> <i>-The Great Crisis: The Climatic and Political Dimensions of the 1058-1072CE Famine in Medieval Cairo</i>  <i>-Using Biological Indicators to Assess Water Quality of Freshwater Streams</i>  <i>-Water Sales During Droughts: Evidence from Farm-Level Data in California</i>  <i>-Gray Water Reuse in Sustainable Urban Agriculture</i>	Rachel Howes, CSU Northridge  Dessie Underwood, CSU Long Beach  Anita M. Chaudhry, CSU Chico  Maryam Shafahi, Cal Poly Pomona

- continued -

3:30 pm	Network	Gallery / Summit Room
3:50 pm	<b>Wrap up and Comments</b>	Boykin Witherspoon
4:15 pm	Conference Adjourn	
5-6 pm	<b>Networking Reception (optional)</b> No host bar; Dinner on your own	Gaicho Grill, downtown Long Beach*

\*4:30pm Bus available from CSULB to Gaicho Grill and Hotel Maya

## Tour

April 29, 2016

8:15 am	Load bus at Hotel Maya
8:30 am	Bus departs Hotel Maya
9:00 am	<b>NSF Funding Workshop</b> - Keith Sverdrup (@ CSU Chancellor's Office, Wallace Room)
11:00 am	break
11:15 am	<b>Overview on Cordoba Coporation</b> - Randall Martinez
11:30 am	<i>From Sustainable Policy to Sustainable Infrastructure: Stormwater Capture Policy and Infrastructure Development</i> - Maria Mehranian
11:50	Load bus
11:55 pm	Lunch at Shoreline Park
12:55 pm	Load bus
1:15 pm	<b>Stormwater Reuse Facilities (@ Long Beach City College)</b> - Overview of LBCCD and Stormwater Project – Michael Boomsma, VP of Education and Facilities - Overview of Cordoba's energy efficiency capabilities and highlight LBCCD project – Lucy Labruzzo, VP of Energy Infrastructure - Overview of the Bond Program – Narbeh Issaghlian, Legal Counsel
3:00 pm	Load bus
Approx. 3:30	Bus drops off at Hotel Maya
Approx. 3:40	Bus drops off at Chancellor's Office



Long Beach, CA - photo by Jon Acuna (June 26, 2015)

## WELCOME MESSAGE



**Boykin Witherspoon III**  
Executive Director, WRPI

Dear Conference Attendees:

Welcome to the 8th Annual WRPI Conference! The WRPI staff and I appreciate you taking the time out of your busy schedules to invest in and learn about the future of water in California. Over the last year, WRPI has continued to develop the Disadvantaged Communities Center, which will be a statewide entity providing hands-on learning experience to students through paid internships. We concluded the last round of our USDA grant and were awarded an additional \$2 million for the next four years, allowing us to provide paid internships for approximately 200 more students.

This has been a big year, for not only WRPI, but also the state as a whole, with the roll out of Proposition 1 monies and other funding, such as CEC/EPIC and NSF INFEWS, focused on water and the drought. This funding will be utilized in various ways to improve the future for the entire state of California, which continues to be affected by the drought. For our conference this year, we've brought together CSU faculty, government agencies, and industry to share unique perspectives on "Big Water Projects, Innovation, and the New Reality." We'll learn about some of the large projects being undertaken in the Salton Sea and Bay Delta, as well as what's being done to deal with the drought and climate change. We'll also hear from industry leaders about their newest technology and methods.

One of the most important aspects of our conferences is the opportunity for networking and collaboration. I encourage you to take advantage of this time and join us for the networking reception tonight.

I hope you enjoy the Conference, and I look forward to meeting you.

Sincerely,

A handwritten signature in black ink, appearing to read "Boykin Witherspoon III". The signature is fluid and cursive.

Boykin Witherspoon III

### Special thanks to the WRPI Conference Planning Committee:

**Pitiporn Asvapathanagul**  
**Nicole Barnhart**  
**Matt Becker**  
**David Brown**  
**Sen Chiao**  
**Michael Clemson**  
**Jesse Dizard**  
**Kathleen Firstenberg**  
**Phil Garone**  
**Nancy Gutierrez**

**Sandra Jimenez**  
**Michael Lee**  
**Phoolendra Mishra**  
**Michele Penilla**  
**Laura Ramos**  
**Nathan Rank**  
**Ali Sharbat**  
**Dessie Underwood**  
**William Wright**  
**David Zoldoske**

## Welcome from CSU Long Beach



### **President Jane Close Conoley**

1250 Bellflower Blvd  
Long Beach, CA 90840  
562-985-4121  
Jane.Conoley@csulb.edu

Jane Close Conoley, Ph.D. was selected by the CSU Board of Trustees in January 2014 as the newest president of California State University, Long Beach and officially took office on July 15. Conoley is the first woman to be appointed president of CSULB and the seventh president overall in the 65-year history of the campus.

Immediately prior to coming to CSULB, Conoley served as dean of the Gevirtz Graduate School of Education at the University of California, Santa Barbara (UCSB). She also served from November 2012 to August 2013 as the interim Chancellor of UC Riverside.

Since 2006, along with serving as dean, Conoley was a professor of counseling, clinical and school psychology. Prior to her service at UCSB, she served as dean and professor of educational psychology at Texas A&M University (1996-2005) and associate dean for research at the University of Nebraska-Lincoln's Teachers College (1989-94). In addition, she held faculty positions at Texas Woman's University and Syracuse University.

Conoley earned a bachelor's degree in psychology from the College of New Rochelle and a Ph.D. in school psychology from the University of Texas at Austin.

Conoley is the author or editor of 21 books and more than 100 chapters, refereed journal articles, and technical reports. Her areas of primary interest are interventions with children with disabilities—especially serious emotional disturbance and aggressive children and youth—and family intervention. Her most recent work investigates the application of the science of positive psychology to educational settings.

## GUEST SPEAKERS

## State Water Projects

### The Salton Sea



**Kent Nelson, California Department of Water Resources**

Program Manager, Salton Sea Management Program

3251 S Street, Room A-4  
Sacramento, CA 95816

916-653-9190

kent.nelson@water.ca.gov

Kent Nelson is the Program Manager for the CA Department of Water Resources' Salton Sea Management Program. Kent has a 25-year history with DWR working on complex environmental issues, habitat development, and endangered species protection in the San Joaquin Valley and the Sacramento-San Joaquin River Delta. Currently Mr. Nelson oversees the development and construction of the Species Conservation Habitat Project, a pilot project that will create nearly 4,000 acres of shallow habitat ponds at the sound end of the Salton Sea. Mr. Nelson and his staff provide the CA Natural Resource Agency with engineering, logistical, and project management support in the development of the Salton Sea Management Program.

### The Bay Delta



**Philip Garone, CSU Stanislaus**

Associate Professor of History, Graduate Program Director

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Turlock, California 95382

209-667-3319

pgarone@csustan.edu

Philip Garone is Associate Professor of History at CSU Stanislaus. He teaches environmental history and his research specialty is the history of California water issues. His book, *The Fall and Rise of the Wetlands of California's Great Central Valley* (University of California Press, 2011), analyzes the ecological transformation of the Central Valley from wetlands, riparian forests, and native grasslands to agriculture, as well as efforts to restore part of the valley's natural habitat. He has recently (2015) completed an environmental history of the Sacramento-San Joaquin Delta, titled "Managing the Garden: Agriculture, Reclamation, and Restoration in the Sacramento-San Joaquin Delta," as part of a collaborative grant

from the California Delta Protection Commission, which is available online at [http://www.delta.ca.gov/res/docs/DelHAI/Full\\_Paper\\_Garone.pdf](http://www.delta.ca.gov/res/docs/DelHAI/Full_Paper_Garone.pdf). In 2015 he also published an article on California water management in the journal Solutions, titled "Drought in California: Entering a New Water Future."



**Blake Roberts, Delta Protection Commission**

Senior Environmental Planner

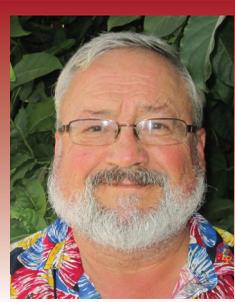
2101 Stone Blvd, Suite 210  
West Sacramento, CA 95691

916-375-4237

blake.roberts@delta.ca.gov

Blake Roberts, Ph.D., AICP is a Senior Environmental Planner for the Delta Protection Commission. He manages the Delta Heritage Area Initiative program, which seeks to protect and enhance the heritage and unique sense of place of the Sacramento-San Joaquin River Delta. He has 15 years of experience as a practicing planner, educator, researcher, and writer focused on community revitalization, environmental planning, economic development, urban design, and public participation. Blake has a Ph.D. in Urban and Regional Planning from the University of California, Irvine, an M.A. in Political Science from the University of Arizona, and a B.A. in Political Science from Western Washington University, and is a member of the American Institute of Certified Planners. He has taught undergraduate, graduate, and continuing education courses at Sacramento State, San Jose State, UC Davis, UC Davis Extension, and UC Irvine.

## The Bay Delta (cont.)



### **Horacio Ferriz, CSU Stanislaus**

Chair and Professor, Geology  
One University Circle  
Turlock, California 95382

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Horacio Ferriz, PhD, is the Professor of Applied Geology at California State University Stanislaus. His research interests include engineering geology, exploration geophysics, and hydrology. He is the lead of The Levee Project, an educational project where students from CSU Stanislaus, Merced College, and San Joaquin Delta College come together to conduct geophysical surveys in the levees of the Sacramento-San Joaquin estuary.



### **Stacey Galbreath, CSU Stanislaus**

Student  
One University Circle  
Turlock, California 95382

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Stacey Galbreath is a Junior Geology Major at CSU Stanislaus. She is interested in hydrology and applied geology, and intends to do graduate work in one of these disciplines. She enjoys backpacking with her dogs, rock climbing, and rock-hounding.



### **Steve Blumenshine, Fresno State**

Professor of Biology  
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Fresno, CA 93740

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sblumens@csufresno.edu

Steve Blumenshine is a Professor of Biology at Fresno State. His current focus is ecology of juvenile Chinook Salmon for the San Joaquin River Restoration. Also funded research in fish ecology and food webs in both freshwater and estuarine systems. He has international research experience including as a Fulbright Scholar in Thailand.



### **Taylor Spaulding, Fresno State**

Master's Student  
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Fresno, CA 93740

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Taylor's interests lie in the conservation and restoration of Pacific Salmon. He is currently using individual-based modeling, stable isotopes, and otolith microstructure to investigate the bioenergetics of salmon foraging behaviors especially as they relate to drought conditions on the San Joaquin River.

## GUEST SPEAKERS

## Industry/Agency & Innovation



### **Rick Bacon, Aqua Metrology Systems Limited**

Chief Executive Officer

1225 E Arques Ave  
Sunnyvale, CA 94085

408-523-1900

rbacon@aquametrologysystems.com

Rick has served as CEO of Aqua Metrology Systems since 2012. Prior to joining AMS, Rick was the Managing Director of Severn Trent Services' European Water Purification Division. Prior to that, he held senior Board level positions with several quoted US and European companies in the technology, industrial products, and energy sectors. Rick has advised and led several technology start-ups in Europe securing seed and development funding. He is currently studying for a PhD in the Department of Education at the University of California, Santa Barbara.



### **Derek Stephens, ABR Process Development**

Business Development Manager

35 Steele Place  
Morningside, QLD 4170 Australia

714-878-0957

derek@abrprocess.com

ABR Process Development is an internationally recognized process and technology development company. We specialize in identifying, improving, and commercializing viable and innovative industrial processes. Our technology adds value to chemical processes associated with purification, recycling, regeneration, and metals recovery. We develop scalable, economic, and sustainable solutions, tailored to individual client requirements. Our target is to leverage technologies that deliver zero-waste and nil-pollution. ABR will offer water remediation solutions in the removal and recovery of acids, alkalis, caustics, salts, and metals from industrial waste water processes. We offer services in North America for hydraulic

fracturing "fracking", coal seam gas (CSG) brine, utilities/power plants, mining- pregnant leach solution (PLS), steel mills- spent pickling liquor (SPL), industrial manufacturing, food & agriculture, municipal sites, drinking water (arsenic & selenium removal), and chemical process plants.

ABR's technology was successfully trialed for a Tasmanian mining site for hydro-metallurgical processing, where it removed total dissolved solids from 200,000 to 235 ppm and completely removed heavy metal contaminants. It was also trialed on Australian coal-bed methane brine wastes with the complete removal of calcium, magnesium, strontium, and barium. In addition, hydrochloric acid and caustic soda were recovered. Testing in the US shale oil industry demonstrated full removal of magnesium and 50% of contained calcium. Also, total dissolved solids were reduced by 60% from above 200,000 ppm, and commercial grade hydrochloric acid and clean sodium hydroxide were recovered for reuse. Clients have included Origin Energy, Queensland Gas Company (QGC), GE Water, and ConocoPhillips.



**Andrew Yeghnazar, Water Technology Hub / Blacoh Industries**

Founding Chairman of Water Technology Hub & President of Blacoh Industries

2400 Lincoln Ave, Suite 111

Altadena, CA 91001

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AYeghnazar@WaterTechHub.com;

AYeghnazar@blacoh.com

Andrew Yeghnazar is the Founding Chairman of Water Technology Hub, an institute dedicated to engaging innovating thinking and the commercialization of new water technologies. With a bias for action, Water Technology Hub seeks to make an impact by weaving together three strands of capital: Intellectual Capital, working with academia and industry to commercialize water related IP; Investment Capital, working with both public agencies and the private investment communities; and Relational Capital, leveraging our global network to bring great ideas to life.

Yeghnazar is also the President of Blacoh Industries, a worldwide leader in industrial fluid control products. Blacoh Industries serves a variety of fields including water/wastewater treatment, energy, biotechnology, pharmaceutical, and food/beverage. He brings over twenty-five years of experience in industrial manufacturing and global markets and is a graduate of the Harvard Business School Owner & President Management Program.



**Steve Gruber, Burns & McDonnell**

Project Manager

4225 Executive Square, Suite 500

La Jolla, CA 92037

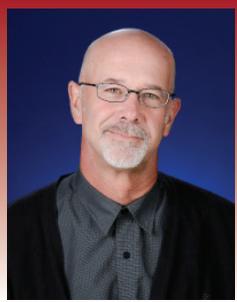
858-320-2946

sjgruber@burnsmcd.com

Mr. Gruber is a Project Manager at Burns & McDonnell Engineering. He has more than 20 years of experience managing various water quality and natural resource assessment projects. He is experienced in NPDES permit compliance studies for municipal, industrial, and private clients, TMDL implementation and regulatory support, biological assessments of coastal and freshwater habitats, and stormwater monitoring. Over the past ten years, Mr. Gruber has focused on assessing the impacts of urban runoff on the coastal biological resources within biological preserves throughout southern California and on natural systems for treating stormwater, such as constructed wetlands.

## GUEST SPEAKERS

## Drought & Climate Change



### **Boykin Witherspoon III, WRPI**

Executive Director, Water Resources and Policy Initiatives

5500 University Pkwy

San Bernardino, CA 92407

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Mr. Witherspoon's experience includes the administration of all aspects of the management for the Water Resources and Policy Initiatives and the Water Resources Institute including: strategic planning and budgeting; promotion with community, universities, and industry; liaison with advisory boards; program management; development and oversight of contracts and grants; hiring and supervision of staff; and training and publications efforts. Additionally, Mr. Witherspoon is a focused problem solver with international project management experience developing Geographic Information System (GIS) applications and software for sustainable landscape architectural planning and design. Mr. Witherspoon's

professional experience includes managing interdisciplinary teams of designers, scientists, and software developers creating innovative and sustainable land use and land planning solutions with an emphasis on programmatic suitability and capability analysis. Mr. Witherspoon is dedicated to ingraining GIS and geographic information science into the teaching, legal, and regulatory frameworks that direct development and use of the Earth's resources.



### **Kyle Mann, CSU Fullerton**

Energy Efficiency Program Specialist

800 N. State College Blvd.

Fullerton, CA 92831

714-681-4886

mann@exchange.fullerton.edu

Kyle Mann currently works as the Energy Efficiency Program Specialist at California State University, Fullerton (CSUF) and has over 10 years' experience in the sustainability and renewable energy efficiency industry. At CSUF, Kyle serves on cross functional teams to bring multimillion kWh energy, water gallons, and dollars in financial savings to CSUF through implementing campus-wide retrofit and new infrastructure projects. Prior to joining CSUF, Kyle worked extensively in the electric utility industry for Southern California Edison (SCE) managing SCE's largest national commercial account customers. Before working in the energy industry, Kyle served as a corporate marketing and PR manager as well as a

producer in television, film, and radio production. Kyle is currently pursuing a Doctorate in Educational Leadership from California State University, Fresno and has his masters in Communications Management from the University of Southern California (USC) and a bachelor's degree in Communications from the University of Georgia (UGA).



### **Tanisha-Jean Martin, San Diego State**

Grad Student

5500 Campanile Dr

San Diego, CA 92182

tanishajmartin@gmail.com

Tanisha-Jean Martin graduated from San Diego State University, triple majoring in Geography, Sociology, and Political Science, and was recently accepted into University of San Diego's School of Leadership and Education Sciences Master's Program. She has worked with the City of San Diego's Park and Recreation Department, creating detailed maps and focusing on Drought Prevention Projects as the Management GIS-Intern; also the United States Department of Agriculture (USDA) as a Natural Resources Conservation Services intern; as well as the California State Capitol as a Legislative Aide-Intern, where she was able to introduce her own California Legislative Bill into Law (AB832-2013). Tanisha-Jean is

a McNair Scholar and recipient of several research presentation awards at various conferences, including the prestigious Dean's Award at the 2012-SDSU Research Symposium. She received the 2014 California State Assembly Certificate of Recognition: Salute to Woman Leaders in the 79th District and continually strives to assist and improve community, state, and worldwide issues through her extensive research endeavors.

## GUEST SPEAKERS

## CSU Faculty Presentations



### **Rachel Howes, CSU Northridge**

Associate Professor, Department of History  
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Northridge, CA 91406

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rachel.howes@csun.edu

Rachel Howes is an Associate professor of Medieval Islamic History at California State University, Northridge. She studies primarily politics and culture in Fatimid, Egypt and Buyid, Iran in the eleventh century CE. She also teaches Middle Eastern history from 600CE to the present and pre-modern world history. Howes is interested in how food and agriculture play a role in the politics and culture of the eleventh century and in the imagination of intellectuals writing in this period. She is also interested in how this compares to the politics and culture of food in other times and places. She has written on the court politics of Cairo and Shiraz and is presently working on a series of articles related to various aspects of the so-called Great Crisis in Egypt.



### **Dessie Underwood, CSU Long Beach**

Associate Dean for Research, College of Natural Sciences and Mathematics  
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Long Beach, CA 90840

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dessie.underwood@csulb.edu

Dessie Underwood earned a BS in biology from CSU Fresno in 1984 and a PhD in ecology from UC Davis in 1992. In 1999, she joined the faculty at CSU Long Beach where she teaches courses in entomology and ecology. She served as the Interim Chair for the Department of Biological Sciences in 2014 and currently serves as the Interim Associate Dean for Research for the College of Natural Sciences and Mathematics at CSULB. In 2006, she established the Stream Ecology and Assessment Laboratory (SEAL). SEAL has been conducting bioassessment for Region 8 of the State Water Boards since 2006, providing practical hands-on training for undergraduate and graduate students. SEAL also maintains one of the largest reference collections of benthic macroinvertebrates and freshwater diatoms in Southern California.



### **Anita M. Chaudhry, CSU Chico**

Associate Professor, Department of Economics  
400 West First Street  
Chico, CA 95929

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achaudhry@csuchico.edu

Anita M. Chaudhry is Associate Professor of Economics at California State University, Chico where she teaches courses in the areas of environmental and development economics. She is interested in understanding how formal or informal institutions affect natural resource use by individuals and how that aggregates into community or public outcomes. Her current research is on water transfers in California, agricultural land sales and creation of habitat in the Sacramento River Corridor, and effects of irrigation management transfer on poverty and agricultural productivity in Pakistan. She earned her PhD in Economics from the University of Wyoming.



### **Maryam Shafahi, Cal Poly Pomona**

Assistant Professor, Mechanical Engineering Department  
3801 W Temple Ave  
Pomona, CA 91768

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Maryam Shafahi received her PhD in Mechanical Engineering from University of California, Riverside in 2010. She has been an Assistant Professor at California State Polytechnic University, Pomona since 2011. Her expertise is on Aquaponics, Transport in Porous Media, Nanofluid Heat Pipe, Biofilm, Bioheat and Renewable Energy. A selection of her recent publications include:

-Maryam Shafahi, Daniel Woolston, Aquaponics: A Sustainable Food Production System, ASME 2014 International Mechanical Engineering Congress and Exposition, IMECE2014-39441, pp. V003T03A073; 4 pages.

-N Bozorgan, M Shafahi, Performance evaluation of nanofluids in solar energy: a review of the recent literature, Micro and Nano Systems Letters 3 (1), 1-15.

-Kevin R. Anderson, Maryam Shafahi, Arthur Artounian, Adam Chrisman, Analysis of solar heating system for an aquaponics food production system, International Journal of Sustainable and Green Energy 2015; 4(1): 1-6.

# ATTENDEES

## **Andrea Achilli**

Assistant Professor  
Humboldt State University  
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Arcata, CA 95521  
707-826-3608  
aa2767@humboldt.edu

Andrea Achilli is an Assistant Professor in the Environmental Resources Engineering Department at Humboldt State University. His research focuses on membrane contactor processes and hybrid systems for desalination and water reuse, membrane separations in environmental applications, renewable and sustainable energy systems, and biological processes for water and wastewater treatments. Prior to this appointment, he had been a postdoctoral researcher in the Department of Civil and Environmental Engineering at the University of Nevada, Reno from 2009 to 2012. He holds a Ph.D. in Civil and Environmental Engineering from the University of Nevada, Reno and a B.S. degree and a M.S. degree in Environmental Engineering from the University of Ancona, Italy.

## **Samantha Aguirre**

Student  
San Diego State University  
5500 Campanile Dr.  
San Diego, CA 92182  
samantha\_aguirre@live.com

Samantha Aguirre is currently a graduate student at San Diego State University. She graduated from SDSU-IVC last spring with a bachelor's degree in Criminal Justice. She is interested in obtaining a service-based career for the federal government in the areas relating to public administration and emergency management. She hopes to one day attain a career for the federal government in the Federal Emergency Management Agency.

## **Pitiporn Asvathanagul**

Assistant Professor  
CSU Long Beach  
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Long Beach, CA 90840  
562-985-5147  
pitiporn.asvathanagul@csulb.edu

Dr. Pitiporn Asvathanagul is an Assistant Professor of Civil Engineering and Construction Engineering Management at CSU Long Beach. Her area of teaching and expertise is environmental engineering. Her research interest relates to molecular biology for enhancing the understanding of biological nutrient removal treatment processes, including nitrification, denitrification, bulking, foaming, and aeration diffuser biofilms, as well as microbial source tracking and biocementation.

## **Hakob Avetisyan**

Assistant Professor  
CSU Fullerton  
800 N. State College Blvd.  
Fullerton, CA 92831  
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havetisyan@fullerton.edu

Hakob Avetisyan (Assistant Professor at California State University Fullerton in the Department of Civil and Environmental Engineering) specialized in Operations Research Applications in construction, transportation, energy, water treatment, and distribution systems. He is a recipient of many honors and awards including the Best Paper award from ASCE Journal of Construction Engineering and Management for innovative

decision-support model development for construction projects. He also developed models to aid policy makers in informed policy developments in natural gas industry. Hakob Avetisyan worked on policy compliance projects for the cost-benefit analysis. He also developed models for pipeline system maintenance and expansion analysis.

## **Jose Avina**

Student  
CSU Fullerton  
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Fullerton, CA 92831  
Jlavina3@csu.fullerton.edu

Jose Avina is second year graduate student at CSU Fullerton. He is pursuing his master's degree in Civil Engineering with an emphasis in Environmental Engineering. He is currently working on modeling water infiltration in unsaturated soils.

## **Reza Baghaei Lakeh**

Assistant Professor  
California State Polytechnic University, Pomona  
3801 W. Temple Ave.  
Pomona, CA 91768  
909-869-2493  
rblakeh@cpp.edu

Reza B. Lakeh is an Assistant Professor at Cal Poly Pomona. His expertise are in the area of renewable energy systems, thermal energy storage, low-cost water desalination.

## **Benham Bahr**

Associate Dean for Research and Graduate Studies  
California State Polytechnic University, Pomona  
3801 W. Temple Ave.  
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909-869-2600  
bbahr@cpp.edu

Dr. Behnam Bahr, Associate Dean for Research and Graduate Studies at Cal Poly Pomona, is currently the PI of the Project MENTOTES, which is funded by the US Department of Education to Promote Post Baccalaureate Degree for Hispanic American to pursue Water and Energy research areas. He has been Boeing Endowed Professor of Manufacturing at CSULB. Dr. Bahr has advised more than 50 graduate student and has published more than 70 conference and journal papers.

## **Nicole Barnhart**

Administrative Coordinator  
Water Resources and Policy Initiatives  
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Nicole Barnhart joined the team at CSU San Bernardino's Water Resources Institute (WRI) in March 2013. Her administrative skills are an integral part of the institute, as well as the WRPI. Mrs. Barnhart is responsible for overseeing office activities, reimbursement processing, creating marketing material, and event planning. She has a gift for helping others, paying attention to detail, and graphic arts. Her true passion is in vocal performance, but she has also enjoyed her 12+ years in the administrative field in addition to running two businesses in skincare and music education.

**Matthew Becker**

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Dr. Becker is a Professor of Geology and the Conrey Endowed Chair in Hydrogeology. His recent areas of interest are fractured rock hydrology, artificial aquifer recharge, and geothermal energy.

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Danielle Bram is the Director of the Center for Geographical Studies at CSU, Northridge. She has been working as a GIS professional for over 16 years. Her research interests include water resource, wetland mapping, and municipal GIS.

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Maritza Bravo is a Civil Engineering student at California State University, Long Beach.

**Alison Bridger**

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Dr. Bridger is Chair of the Meteorology and Climate Science Department and Professor at San Jose State University. She is the author of a recent soil moisture/IPCC paper and is working to grow the "water" footprint at SJSU via new faculty hires.

**Jenna Bunag**

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Jenna Bunag is a full-time student at California State University, Bakersfield, majoring in engineering sciences. The title of her group's project is Research and Development of Reallocating Dairy Water. She is currently serving as Vice President of the Society of Women Engineers and a part of the Society of Hispanic Professional Engineers.

**John T. Bushoven**

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Dr. Bushoven is an Associate Professor of Horticultural Science, Curator of The Arboretum at Fresno State, and Chair of the Department of Plant Science, Jordan College of Agricultural Sciences and Technology. His research focuses on carbon and nitrogen partitioning in horticulturally important plant species, and he teaches undergraduate courses in horticultural science and graduate courses in crop physiology.

**Abigail Campos**

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Abigail Campos graduated with a master's degree in Public Administration from San Diego State University in 2014, and in 2013 and 2014, she completed a WRPI internship with the USDA and San Diego State University. After graduating, she successfully obtained a seasonal position with USDA U.S. Forest Service, and then secured her current position as a Marketing Specialist with USDA, AMS, Marketing Orders and Agreements division.

**Christian Carleton**

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Christian Carleton is a research engineer and professional hydrologist for the Office of Water Programs at Sac State specializing in natural and engineered systems hydrology. His experience in stream hydrology, fluvial geomorphology, watershed and hillslope hydrology, investigation of hydrologic pathways, and aqueous biogeochemistry allows him to work in broad and diverse hydrologic systems using his knowledge of field, analytical, and numeric techniques. Christian has extensive stormwater experience working in highway and urban environments as well as in emergency preparedness for water-related catastrophes. He understands California environmental and water issues including regulations, environmental flows, and hydrograph modification.

**Andres Ceja**

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Andres Ceja is a fifth year engineering technology student pursuing a bachelor's degree at the California State Polytechnic University in Pomona. His senior design project revolves around desalination using renewable energies. His study emphasizes on the mechanical side of engineering, although through his research he has gained not only interest, but knowledge and experience in electronics and applications of photovoltaic panels for completely off-grid purposes.

**Fernando Ceja**

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Fernando Ceja is a senior at California State University, Bakersfield. His major is General Engineering with an emphasis in Agriculture and Biosystems, and his expertise involves irrigation design and optimization, construction materials testing, and soil testing.

**Sen Chiao**

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Dr. Sen Chiao is an Associate Professor from the Department of Meteorology and Climate Science at San Jose State University. He is also serving as the Director of the NASA MIRO Center for Applied Atmospheric Research and Education (CAARE) at SJSU. Dr. Chiao has been working on water-related research topics from weather, climate to climate change perspectives. His goal is to advance our understanding of fundamental science in the areas of weather and climate, hydrometeorology, and their linkages to climate change.

**Kaitlyn Chow**

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Kaitlyn Sakiko Chow is an Applied Marine and Watershed Science graduate student at CSU Monterey Bay. Her interests and main areas of study include watershed assessments, river restoration, monitoring using photogrammetry and unmanned aerial vehicles. She has published reports for the Santa Lucia Conservancy, Hollister Hills Off-Highway Vehicle Park, and the Agriculture and Land Based Training Association.

**Aileen Corcoles**

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Aileen Corcoles is a current sophomore at San Diego State University Imperial Valley Campus, pursuing a Bachelor of Science degree in criminal justice. October 4-6, 2014, she participated in the HACU annual conference meeting in Denver, Colorado, and on November 1, 2014 she completed a training program in the ART of Intercultural Communication collaborating on campus and in the community. In March, 2015, she was given a tour at the Calexico East Port of Entry by the US Department of Agriculture, and on February 24, 2016, she attended the 2016 South-west Agriculture Summit hosted at Arizona Western College/University of Arizona in Yuma, Arizona.

**Suzanne Dallman**

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Dr. Dallman is an Associate Professor of Geography at CSULB. Her research interests include sustainable water management, rainwater harvesting, low-impact development, alternatives to imported water, and drought response.

**Julianna Delgado**

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Julianna Delgado, MArch, PhD, AICP is a Professor of Urban Planning at Cal Poly Pomona and Founder and Co-Director of the California Center for Land and Water Stewardship.

**Kristine Diekman**

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Kristine Diekman, internationally known media artist and Professor of Arts and Technology at California State University San Marcos since 1997, works closely with the community as Director of Video in the Community (VIC) to produce culturally sensitive media projects in collaboration with community members that address problems affecting the region. VIC's work is funded by county grants, private donations, foundations, and corporate funding and is distributed world-wide. Her recent grant from the California Humanities Community Stories supports her project, Run Dry, a multi-media digital project that forwards the stories of people living without water or clean water in the Central Valley.

**Andre Ellis**

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Andre Ellis, Ph.D., Associate Professor and Associate Chair in Geosciences & Environment at Cal State L.A., received his Ph.D. from the University of Illinois at Urbana Champaign developing Cr and Se stable isotopes to monitor fate and transport. Ellis has been part of the NSF Center for Energy and Sustainability and LSAMP Bridge to Doctorate programs. His research interests include contaminant transport (Cr and As), isotope hydrology (Cr, Se, Sr, S, O, H), groundwater flow, carbon cycle, and water quality studies in urban, coastal and pristine watersheds. Ellis offers courses in hydrogeology and environmental and isotope geochemistry.

**Gilbert Esparza**

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Gilbert Esparza is a student at CSU Bakersfield and will be sharing a presentation on the relevant research on water cleaning method. Electrocoagulation will be examined and relevant research will be presented.

**Claudia Espinoza**

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Dr. Claudia Espinosa teaches in the Mechanical Engineering Department at Cal State Los Angeles. Interests include the sustainability of water, water quality, the Los Angeles River restoration, and the use of Geographic Information Systems to analyze and model environmental data.

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Kathleen Firstenberg graduated from California State University, San Bernardino with a BA in Psychology, and since that time she has worked in social services and higher education. She also attended the University of Washington and completed a certificate in editing. In addition to working for the WRPI, Ms. Firstenberg operates a freelance editing and writing business.

**Frank Freedman**

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Dr. Frank Freedman is an Adjunct Professor at the SJSU Department of Meteorology and Climate Sciences and Research Associate at the SJSU Center for Advanced Atmospheric Research and Education (CAARE). He specializes in surface wind flow and computational modeling. His research interest is on better prediction of California precipitation, focusing on interactions between storms and coastal topography. His work in this area is through CAARE (Prof. Sen Chiao, center lead). Targeted applications are towards better utilization of local rainfall in California coastal communities, an emphasis area of Integrated Regional Water Management in the California Department of Water Resources strategic plan.

**Jeroen Gillard**

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Dr. Jeroen Gillard started as an Assistant Professor at the Biology Department of CSU Bakersfield in the fall of 2015. He has an M.S in Biochemistry and a Ph.D. in the field of unicellular algae biology. Dr. Gillard has published research on the molecular regulation of diatom sexual reproduction, cell division, and cell motility. Recently, he was awarded a mini-grant through the Research Council of the University to fund a project entitled: "Identification of water pollutants interfering with the diatom life cycle". Through his research, Dr. Gillard hopes to make valuable contributions that can inform policy on water conservation and measures against pollution by industrial contaminants.

**Mario Giraldo**

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Dr. Giraldo is a geography instructor with expertise in GIS-RS applications to water resources, currently teaching water, ecosystems and environmental lower, upper and graduate courses. His research is focused on the effects of land use change and water variables at different scales.

**Oscar Gonzalez**

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Director Gonzalez was elected to the Cucamonga Valley Water District Board of Directors in November 2008. Director Gonzalez currently serves on the Engineering Committee and the Legislative and Outreach Committee. He also serves as a Director of the Fontana Union Water Company. He received his Bachelor of Science degree from California State University, Los Angeles, in mechanical engineering and a Master of Science degree from California State Polytechnic University, Pomona, in environmental engineering. Director Gonzalez is a registered professional civil engineer with the State of California and is currently employed as a water / wastewater engineering consultant. He has over 20 years of experience in the field of water and wastewater engineering.

**Emily Gorrie**

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Emily Gorrie is pursuing her MS degree in Chemistry at CSU Sacramento. Ms. Gorrie studies environmental applications of solid state diffusion of cations through porous, naturally-occurring, aluminosilicate materials (zeolites) under the guidance of Dr. Susan Crawford. Zeolites represent a promising class of natural materials useful in applications in catalysis, as molecular sieves, and waste remediation. Emily is currently investigating zeolites as soil amendments for heavy-metals waste remediation in contaminated California soils as a method to reduce uptake by crops, a project partially funded through the WRPI internship program.

**Robert Green**

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Robert Green is an Adjunct Professor/Lecturer, Plant Science Department, Cal Poly University, Pomona. He is a horticulturist, though he became specialized in turfgrass science during graduate school. Since 1985, most of his research has been in the area of water-related issues (water conservation, water quality, and salinity). During the past 10 years, the above has grown into the areas of water-related policy and legislation. During his career, over 250 technical and semi-technical papers have been published and over 2.9 million dollars has been awarded to Robert and his Co-Principal Investigators as grants and gifts to support research.

**Jackie Guilford**

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Dr. Jackie Guilford is a lecturer in the Biology Department at Sonoma State University. She is leading a group of students in an Internship in Water Research. Students participating in this internship collaborate with the Sonoma County Water Agency to design experiments, go into the field to collect data, and present their results to scientists at the water agency. This semester, the students are collecting sediment samples along the Laguna de Santa Rosa to measure levels of bound phosphorus and nitrogen.

**Arlene Haffa**

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Arlene Haffa is an Associate Professor at CSU Monterey Bay. Her current research focus is on the nitrogen cycle in agricultural settings. Her laboratory studies how fertilizer and water use affect water quality and impact greenhouse gases.

**Maureen Hamilton**

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Maureen Hamilton is obtaining a master's degree in Water Resource Management at CSU Fresno. Ms. Hamilton has integrated her studies with her internship at Western Riverside County Agricultural Coalition. Her work has focused on a nutrient TMDL as it applies to the unique hydrology of the region. Maureen is currently working on a Lake Management Plan for the Canyon Lake Property Owner's Association in Riverside County.

**Michael Harrison**

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Michael Harrison is a Hydrogeology M.S. candidate at CSU Los Angeles.

**Aaron Hegde**

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Dr. Aaron Hegde is a Professor of Economics and the Director of the Environmental Resource Management degree. He is also the Director of the Ag Business program and teaches all of the Ag Econ courses at CSUB. Dr. Hegde published in the agriculture field, and his current research involves water regulation as well as efficient usage from a market perspective. He is also involved with a Title V grant, which incorporates sustainability throughout the GE curriculum. Dr. Hegde is the lead person within the GE faculty to promote extra-curricular events around water for the next academic year.

**Eric Houk**

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Dr. Houk is a Professor in the College of Agriculture and Science Director for the Center for Water and the Environment at California State University, Chico. Dr. Houk's research focuses on the economics of water allocation and water conservation. Specifically, he has examined the economic impacts of water transfers from agriculture; the economic effects of irrigation induced waterlogging and soil salinization; and the impact of water conservation efforts on residential water demand.

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Sandra Jimenez joined Water Resources Policy Initiatives (WRPI) as an intern for Watershed Management with the US Forest Service. Upon completion, she was assigned to Program Support Assistant with WRPI in September 2014. She recently obtained a dual B.A. in Psychology and Criminal Justice from CSU San Bernardino.

**Andrew Kennedy**

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Andrew Kennedy is pursuing his BS degree in Biotechnology at Cal Poly Pomona.

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Steven Keough has earned a dual Bachelor of Science degree in Business Administration and Management Information Systems from California State University, Bakersfield, and a Master of Business Administration degree from the Claremont Graduate University with an emphasis in Finance. Mr. Keough has more than seventeen years of experience working in higher education and non-profit financial management. In addition to his work with the WRPI, Mr. Keough serves as a financial and management consultant for various non-profit organizations.

**Steven Kerns**

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Steven Kerns is an environmental science and policy student and US Army Veteran from Long Beach, California. He has devoted his life to the pursuit of improving global environmental conditions by pursuing a career in environmental policy, and plans on attending law school after he graduates. He has done research regarding the rainforests of Costa Rica and the wetlands of southern California. Steven is an avid traveler, loves to read books, and has a deep interest in water policy and cognitive science.

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John Keyantash is an Associate Professor in the Department of Earth Science and Geography, with specialization in hydroclimatology. He has expertise in quantifying drought severity using indices for meteorological and hydrological drought. He is also interested in identifying streamgaging gaps using GIS and researches the hydrography of large rivers and waterfalls around the world.

**Sudarshan Kurwadkar**

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Dr. Sudarshan Kurwadkar is currently an Assistant Professor of Civil and Environmental Engineering at the California State University, Fullerton. He is a Board Certified Environmental Engineer and a licensed Professional Engineer. Dr. Kurwadkar's research interests are in the broadly defined area of physical and chemical processes in environmental engineering. Specific examples are fate and transport of emerging contaminants such as pharmaceuticals and insecticides in the environment; sorption and degradation kinetics of organic contaminants, water quality investigations particularly water quality impacts due to intensive animal agriculture operations. He actively engages undergraduate and graduate students and promotes environmental engineering education.

**Juan Esquivel Lara**

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Juan Esquivel Lara is an Engineering student about to graduate from CSU Bakersfield, currently doing research with OriginClear: a leading provider of water treatment solutions. Our current research is treating produced water using electro-coagulation and electro-oxidation.

**Michael Lee**

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Michael Lee has 30 years of experience in the assessment, management, and protection of water and watershed resources. He has worked as a researcher, teacher, and consultant in Central America, Africa, Europe, and the United States and has taught at CSUEB since 1996 where he specializes in the areas of water resources, sustainable development, and natural resources management and is the current Director of International Studies. He has a Ph.D. from the London School of Economics where he researched arid lands hydrological systems. He is currently working with Moss Landing Marine Labs on an aquaculture initiative.

**Amy Leon**

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Amy Leon is a freshman at San Diego State University-Imperial Valley Campus, majoring in Business Administration. She has a special interest and experience with Environmental Science and comes from an agricultural community an hour from the Salton Sea. She would like to use her education in a way that it is useful to her community.

**Weimin Li**

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Weimin Li, Ph.D. ASLA, is an Associate Professor of Landscape Architecture at Cal Poly Pomona. Dr. Li specializes in advanced geospatial technologies, including geospatial data collection and integration, geospatial analysis, geo-processing modeling, high resolution remote sensing imagery processing, and 3D landscape construction, as well as their wide range creative application in landscape architecture, urban design, and environmental planning practice in California and beyond. Dr. Li researches the environmental and social impacts of contemporary landscape design and planning on different dimensions of sustainability and quality of life in urban and rural settings, including water usage and conservation, storm water management, urban green space connectivity and accessibility, wildlife habitat conservation, multimodal transportation, neighborhood safety, public health, environmental justice, and so on.

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Lauren Luna is a graduate student in the Applied Marine and Watershed Science program at California State University, Monterey Bay working under Dr. Doug Smith in the Watershed Geology Lab. She received her undergraduate degree in 2015 at CSU, Monterey Bay in Environmental Science with a concentration in watershed systems. Lauren is interested in fluvial geomorphology, river restoration, and watershed management. She has worked on various projects including time-series river monitoring, trail erosion, and post dam removal monitoring.

**Ana Lutz**

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Ana Lutz is a third year Environmental Studies major at Cal State University, San Marcos. For the past three years, she has studied biology, chemistry, and environmental studies. With that knowledge, she has received her certification as a Chaparral Naturalist. This certification gives her extensive knowledge and experience in California ecosystems, including chaparral and coastal sage scrub. Ms. Lutz is also involved in two groups on campus: the Environmental Studies Club and Sustainability Club. By being active in her community and on campus, Ana hopes to prepare herself as an advocate for environment conservation.

**Sami Maalouf**

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Dr. Maalouf's research and teaching interests are based on developing and enhancing methods that can be used to improve the environment. Research interests are centered on environmental fluid mechanics (water quality models, turbulence, transport phenomena, stratified flow, surface and groundwater flow, and contamination) and sustainable development (heat disposal, alternative energy systems, hydro-electric power, and energy conservation). Current research focuses on modeling of the fate and transport of contaminants in large water bodies, especially coastal zones. Ongoing work addresses techniques to deal with brine effluent from seawater reverse osmosis desalination plants.

**Bwalya Malama**

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Dr. Malama is an Assistant Professor of Groundwater and Soil Biophysics whose specialization is groundwater and contaminant transport modeling, both numerical and analytical. Dr. Malama's PhD is in Hydrology from the University of Arizona where he focused on inverse stochastic modeling for heterogeneous media.

**Richard Marcus**

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Richard R. Marcus is Professor and Director, The Global Studies Institute and the International Studies Program. He is currently the PI of the CSULB portion of a multi-institutional EaSM Grant on agricultural water use in the SE United States and has been PI or co-PI on eight water policy-related grants from NSF and USDA. A specialist on the impact of political change on diverse policy sectors, he has published on water governance and decision-making in Madagascar, Kenya, Israel, and Alabama, USA.

**Emma McDonough**

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Emma Rae McDonough is a senior at Cal Poly Pomona, majoring in environmental biology and currently working for the Citrus Research Board of Southern California. Ms. McDonough completed a two-year irrigation deficit study with Dr. Robert Green at Cal Poly Pomona, which will be in the April issue of GCSAA magazine and has been presented at two ARI conferences.

**Gustavo Menezes**

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Gustavo Menezes is an Associate Professor in Civil Engineering at California State University Los Angeles. His research focuses on subsurface water quality, more specifically on steady-state centrifugation investigation of physicochemical properties of unsaturated soils.

**Saad Merayyan**

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Dr. Merayyan is an expert in water resources systems analysis, design, and modeling, who focuses on climate change impacts and adaptations.

**Stephen Mezyk**

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Dr. Mezyk is a Professor in the Department of Chemistry and Biochemistry with research interests in wastewater remediation chemistry. He works extensively with Orange County Water District providing expertise and background for the advanced oxidation process technology.

**Thomas Mihara**

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Thomas Mihara is an undergraduate Research Assistant at California State University, Fullerton studying fluid mechanics, hydrology, and landfill gas analysis.

**Danny Miranda**

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Danny Miranda is a graduate student in the Geological Sciences Department at Cal Poly Pomona working toward completing a master's thesis project involving water resources planning and watershed management. Mr. Miranda decided to pursue a graduate degree in the field of Geology in order to focus his research studies on groundwater resources, which play a critical role in modern society. Danny's current research study involves the investigation of a watershed's response to precipitation recharge events during an extended drought period in southern California.

**Phoolendra Mishra**

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Dr. Mishra joined as Assistant Professor of Civil and Environmental Engineering at CSU Fullerton in 2012. He received his Ph.D. in Hydrology from the University of Arizona. His research interests include modeling flow and transport in subsurface, well hydraulics, coupled processes modeling, contaminant source identification, parameter estimation, and uncertainty quantification. Dr. Mishra has published numerous research articles in these areas and recently received an exceptional teaching effectiveness award from CSU Fullerton.

**Lindsay Moore**

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Lindsay Moore is an environmental studies student at California State University, San Marcos.

**Abraham Morales**

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Abraham Morales is an engineering technology student, graduating in June 2016. Throughout his engineering education, he has grown to enjoy the field of fluid mechanics and dynamics and realizes the great advancements that have been made and are yet to be made in this field. He decided to join a senior project team that is working on a desalination system that will incorporate a thermal storage energy tank, a CSP system (concentrated Solar Power), and pre-treatment water system. Abraham is thankful to be part of an engineering senior project that is truly putting his skills and education into practice.

**Vien Nguyen**

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nguyenvien81umsl@gmail.com

Vien Nguyen is a student at Cal Poly Pomona and is a member of Tau Alpha Pi, which is an honor association of Engineering Technology. Vien's goal is to finish an Engineering Technology B.S. this year while working on Brackish Desalination by Solar System as a senior project. The system uses reverse osmosis to filtrate water, which is heated up by CSP (Concentrated Solar Power) and thermal storage system, and the pump is powered by photovoltaic panels.

**James Noblet**

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Dr. James Noblet is a Professor of Environmental Chemistry and the Director of the Water Quality Laboratory at CSU San Bernardino. He has 20+ years' experience studying aquatic systems.

**Amalie Orme**

Professor  
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Dr. Amalie Orme is a Professor of Geography at California State University, Northridge, focused on fluvial geomorphology, river restoration, and quaternary climate change.

**Rocio Ortiz**

Student  
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Rocio Ortiz is a sophomore at San Diego State University – Imperial Valley Campus, majoring in Public Administration with a minor in Business Administration and an interest in Sustainability. Ms. Ortiz is a WRPI Intern for USDA- Rural Development in Imperial, CA and attended the HACU's 28th Annual Conference in Denver, CO as a USDA-HSI Student Scholar. Rocio was also the student speaker at the "Meet and Greet" with Director of USDA's Office of Advocacy and Outreach hosted at SDSU- IV Campus.

**Michele Penilla**

Program Manager  
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Michele Penilla has over five years of experience in Workforce and Career Development serving disadvantaged and underserved communities. For the last three years, she has been working directly with higher education students helping them to secure internships and establish career paths. She is currently the Program Manager for the Water Resources Institute / Water Resources Policy Initiatives at CSU, San Bernardino.

**Pamela Perez**

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Pamela Perez is a lecturer at CSUN whose specialty is tourism and water conservation, especially regarding golf courses. Dr. Perez published a book in 2015, in Spanish, with Common Ground Publications, entitled "The Tourist Area Life Cycle: Application to the Costa del Sol." She has published an article with the "Environmental Observatory" Journal, a publication of the Complutense University of Madrid, Spain, entitled "The Tourist Area Life Cycle: Its Application to the Costa del Sol and its Environment," also in Spanish. Dr. Perez has been a professor at CSUN since 2000.

**Sergio Pinedo Felix**

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Sergio Pinedo Felix is a full-time student at California State University, Bakersfield, majoring in the field of Engineering. For the past year, he has been working along with peers in the field of water treating and planning. The group is preparing for their first poster competition next month. Sergio also worked alongside Dr. Cabrales in the field of POSS and presented results at a few conferences and poster competitions.

**Cristina Poindexter**

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Cristina Poindexter is an Assistant Professor of Water Resources Engineering at California State University, Sacramento. She studies wetland restoration in the Sacramento-San Joaquin Delta and its role in subsidence reversal and greenhouse gas fluxes.

**Brian Pompeii**

Lecturer  
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Dr. Brian Pompeii is a geographer in the social sciences department at Cal Poly, San Luis Obispo. His research interests include water management, social vulnerability, and global environmental change. His previous research includes mapping the future of water security in Phoenix, Arizona and studying the relationship between local environmental knowledge and vulnerability to coastal hazards in the Outer Banks region of North Carolina. He is currently interested in studying the socioenvironmental consequences of groundwater usage in the San Joaquin Valley.

**Ashleen Rai**

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Ashleen Rai is a third year student at Sonoma State University, majoring in Environmental Studies with a concentration in Water and a minor in Business. Ms. Rais is currently interning at a non-profit called Rain Catcher, where they build rain water catchment systems for schools and organizations. She is also a trip leader for the Environmental Stewardship Alternative Spring Breaks Trip. Ashleen's goal is to one day create her own non-profit and build rain water capturing systems for rural countries.

**Laura Ramos**

Program Coordinator  
California Water Institute  
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Laura Ramos is a Program Coordinator for the International Center for Water Technology (ICWT) at Fresno State. She is responsible for completion of deliverables of several grants, monitoring budgets, and event planning. She is also the lead event planning manager for the Water Centers at Fresno State.

**Catalina Rivera**

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Catalina Rivera is a senior in the Engineering Sciences program at California State University, Bakersfield. She is part of a group who is working on a final project that consists of expanding their knowledge of existing methods of cleaning water. The researchers will delve into research to develop an innovative way to recycle dairy wastewater by electrocoagulation.

**Christina Rodriguez**

Internship Manager  
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Christina Rodriguez graduated from the University of Notre Dame with a BA. She worked in the private sector for 13 years hiring, training, and developing young talent for a national telecommunications company before spending the last 5+ years in the field of higher education. She has managed several internship programs for the campus of California State University, San Bernardino that includes a several months' long stint as the Interim Director of their Career Center. In addition to managing the WRPI's internship program, she operates her own business, Career KABOOM, providing career advising services to clients.

**Ashley Romero**

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Ashley B. Romero is a transitioning junior at San Diego State University-Imperial Valley Campus, majoring in Public Administration with a minor in Business Administration with an interest in Sustainability. Ms. Romero is a WRPI Intern, as well as a U.S. Forest Service Student Ambassador with the Partnership for Public Service and a former Student Ambassador from the IVUP Group/USDA-HSI Student Scholars at HACU's 28th Annual Conference. She has also recently been selected as a Student Ambassador to partake in the 92nd Annual USDA Agricultural Outlook Forum, Student Diversity Program.

**Christina Romero**

Student  
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Christina Romero is a Cal Poly Pomona graduate student pursuing a degree in Agriculture Science, emphasizing in agriculture policy and communications. Water is a challenging issue in agriculture, and Ms. Romero is involved in solutions-based collaborations with various ag-related groups.

**Gabriel Sacher**

Student  
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Rohnert Park, CA 94928  
sacherg@sonoma.edu

Gabriel Sacher is a junior at SSU studying Biology. Mr. Sacher is currently doing research with Dr. Cohen attempting to digest wine waste using a new type of system known as a MFC. Outside of school, Gabriel is an EMT for a local ambulance company. While he is still making decisions regarding what he wants to do after college, he will probably continue in the medical field. Gabriel is grateful for the grants provided by WRPI, as it is allowing him to gain valuable research experience, informing future career decisions.

**Dayanand Saini**

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Dayanand Saini is an Assistant Professor of Engineering at the Department of Physics and Engineering of California State University, Bakersfield. His areas of expertise include geologic CO<sub>2</sub> storage, reservoir simulation, and oil-field produced water management. With his coauthors (if applicable), he has published several peer-reviewed journal articles and reports including 'IEAGHG, "Extraction of Formation Water from CO<sub>2</sub> Storage", 2012-12, November 2012.'

**Marcoantonio Salazar**

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Marcoantonio Salazar is a senior at California State University, Bakersfield, majoring in Engineering Sciences Emphasized in Agriculture. Mr. Salazar has had multiple internship experiences that have involved hands-on experience in the food industry. In the past, he and a fellow classmate built a prototype remote controlled lawn mower for a class. Marcoantonio has attended multiple conferences and presented his research on the lawn mower and the STEM program being implemented in the south San Joaquin valley.

**Ali Sharbat**

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Ali Sharbat is an Assistant Professor in the Civil Engineering Department at Cal Poly Pomona. His area of work is water quality and desalination. He has been involved in the USDA-WRPI RUS projects in providing technical assistance to disadvantaged communities (DAC.) He is part of the WRPI team for initiating the DAC Center.

**Martha Shott**

Assistant Professor  
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Martha Shott is an Assistant Professor in the Department of Mathematics and Statistics at Sonoma State University. Dr. Shott is an applied mathematician with expertise in modeling environmental and civil systems. She is currently an instructor for a freshman year experience that centers on topics pertaining to the regional watershed, so this event will be pertinent to the continued development of that course.

**Maria Sklar**

Academic Advisor  
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Maria Sklar is an academic advisor for the College of Engineering Student Services at Cal Poly, San Luis Obispo. College of Engineering advises 13 engineering majors and 3 minors. Ms. Sklar's areas of interest are the second and third year or "mid years" for engineering students. These are challenging years where sometimes students lack the motivation to continue with their studies primarily because they don't see the connection between their coursework and their career goals. Participating in events related to their area of study such as the WRPI conference will provide students not only with networking opportunities, but they will also be able to see how their studies can apply to future career options. In addition to academic advising, Ms. Sklar also assists engineering students with study abroad planning. Study abroad is an excellent opportunity for students in engineering particularly within the second and third year because it improves their college experience and assists with their retention and overall academic success.

**Rebeka Sultana**

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Dr. Rebeka Sultana is teaching as Assistant Professor at Civil Engineering and Construction Engineering Management Dept. at California State University, Long Beach since 2011. She has completed her doctoral study in Water Resources from University of California, Irvine in 2011 and MS degree from Purdue University, West Lafayette in 2006. Through her research, Dr. Sultana has sought to understand the effect of hydrologic fluxes by studying climate change, land use, and land cover change. Her research interest is also to improve physical processes in hydrologic and land surface models.

**Ellen Suryadi**

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Ellen Suryadi is a Program Coordinator for the Center for Irrigation Technology and California Water Institute at Fresno State. She is responsible for compiling budgets for proposals and managing budgets for all incoming grants for CIT, CWI, and the Plant Science and Industrial Technology departments.

**Vivian Tang**

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Vivian Tang is a recent graduate from California State University, Long Beach with a Bachelor of Science degree in Civil Engineering. Ms. Tang's main focus in her undergraduate study was environmental and water resources.

**Jeffrey Thompson**

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Dr. Thompson received his B.S. in physics from Michigan State University and his Ph.D. in molecular biophysics from Florida State University. After spending six years at the National Institutes of Health and six years at the University of Illinois, Urbana-Champaign, he moved to the Department of Biology at California State University, San Bernardino. He served as Chair of the Biology Department from 1998 to 2005. He is currently the Associate Provost for Research and Dean of Graduate Studies at CSUSB. The Water Resource Institute (WRI) at CSUSB reports to him. He also works collaboratively with the WRPI on a frequent basis since it is located on the San Bernardino campus.

**Ricardo Vargas, Jr.**

Student  
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Carson, CA 90747  
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Ricardo Vargas, Jr. is an undergraduate senior interested in water resources, attending graduate school in Fall 2016. Mr. Vargas had a Research Experience for Undergraduates (REU) with the NSF in Washington, D.C. during summer 2015.

**Debbie Whaley**

Executive Director  
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Debbie Whaley is the founding Executive Director of Sacramento State's Institute of Water, Energy, Sustainability and Technology (iWEST). In her over 30 years of experience as a groundwater hydrologist, she has worked on water management challenges in California and throughout North America, as well as in the United Kingdom, Southeast Asia, and the Middle East. Under her leadership, iWEST will be a platform for cross-disciplinary research that capitalizes on the university's successful science, engineering, and policy programs, and its unique position at the heart of one of the world's most complex policy, water, and energy systems.

**Wendy Willis**

Senior Biologist/Freshwater Invertebrate Taxonomist  
Aquatic Bioassay and Consulting Laboratories, Inc.  
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Ms. Willis is a senior biologist/freshwater invertebrate taxonomist responsible for the sampling, and the subsequent species identification, of freshwater organisms from freshwater streams throughout southern California. She is also certified in the identification of riparian zone plants (CRAM and Relevé methods) and local amphibian identification. Some of her other responsibilities include: leading field sampling crews, data management, GIS mapping, and data analysis for our freshwater programs throughout southern California. She also serves as the lead QAQC freshwater invertebrate taxonomist for the California State University, Long Beach Stream Ecology and Assessment Laboratory (CSULB-SEAL) and trains students on freshwater invertebrate taxonomy.

**David Wrathall**

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Dr. Wrathall investigates climate extremes and human migration. Dr. Wrathall has investigated migration resulting from hurricanes in Honduras, and migration linked to glacier recession in Peru (as a National Science Foundation post-doc). He currently works for the United Nations University in Bonn for MDEEP, a project on climate change, migration and mobile data in Bangladesh carried out together with Flowminder, the International Centre for Climate Change and Development (ICCCAD), Grameenphone and Telenor. Dr. Wrathall holds a PhD in geography from King's College London. He also investigates the social and environmental consequences of narco trafficking in Central America.

**William Wright**

Professor  
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Dr. William Wright began his career with Black & Veatch in 1986 after earning a BS degree in Civil Engineering from UC Berkeley. He began graduate school at UC Davis in the early 1990's, earning MS and PhD degrees in Civil and Environmental Engineering.

Dr. Wright accepted a faculty position at Fresno State in 1999 in the Civil Engineering Program and is currently at the rank of Professor. His responsibilities include instruction in environmental and water resources engineering and coordination of the graduate program. His research interests include water and wastewater treatment, conversion of food wastes to marketable products, and biofiltration.

**Sean Yazdi**

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Sean Yazdi is a student at Cal Poly Pomona, pursuing a B.S. in Mechanical Engineering, and he is also the project manager of a research group that consists of a few teams researching desalination. The official project title is "Solar-assisted Desalination of Inland Brackish Water using Reverse Osmosis." Reverse osmosis technology that utilizes both photovoltaic panels to power the system and concentrated solar panels to directly heat the brackish solution prior to desalination is a useful way to harness solar energy to produce potable water.

**David Zoldoske**

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Dr. David Zoldoske serves as the Director of the Center for Irrigation Technology (CIT) and Executive Director of Water Initiatives at CSU Fresno, where he has been actively working on "water use efficiency" issues for over 30 years. He is a Senior Fellow with the California Council on Science and Technology, and an Honorary Member of the American Society of Irrigation Consultants. He is also a past President of the Irrigation Association (2005), a member of the "SMART" Water Application Executive Committee, founding Executive Director for the WRPI (2008-2013) and past President of the American Society of Agronomy: California Chapter (2002).

# CSU Long Beach

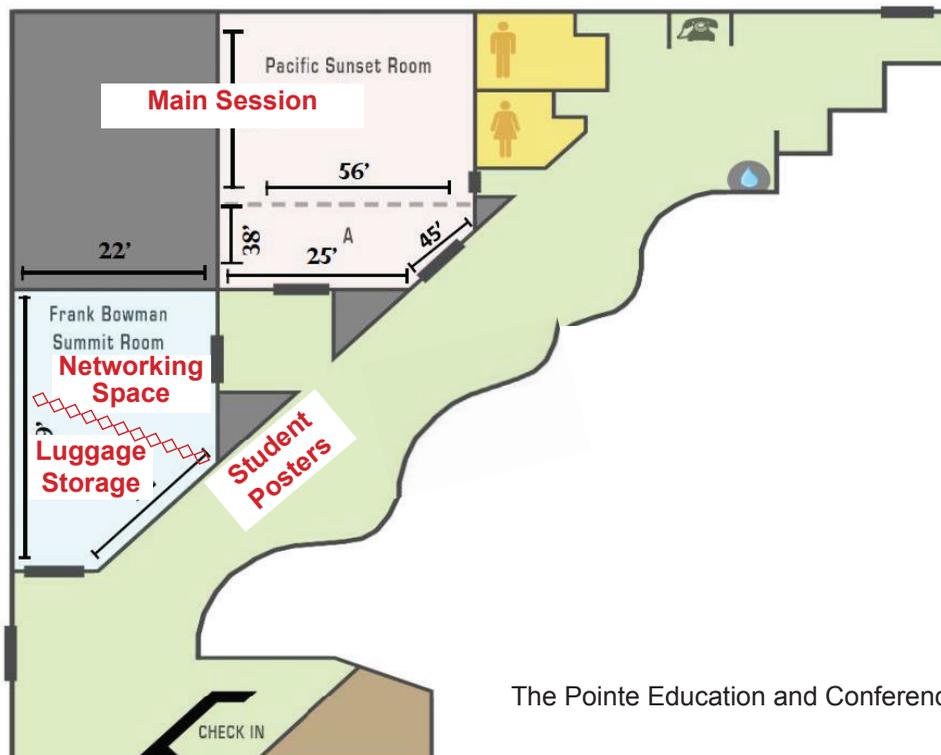
If driving:

Park in lot 13.

- CSU employees may use permits from their home campus.
- Students and/or non CSU employees, please obtain \$5 parking permit from yellow permit dispensers.

■ Main Conference Location:  
The Pointe Education & Conference Center  
at Walter Pyramid, CSULB

■ Parking and bus drop off / pick up



The Pointe Education and Conference Center

# Downtown Long Beach



## Key

- Bike Path
- Bike Lane
- Sharrows
- Separated Bike Lanes
- Recommended Bike Routes
- Passport Bus - Ride Free
- Pedestrian Path
- One-way Streets
- Metro
- Hotels
- Transit & Visitor Information Center
- Schools
- Bike Shops/Rentals

- G** Gaucho Grill (Networking Reception 4/28)  
200 North Pine Ave  
Long Beach, CA 90802
- H** Hotel Maya  
700 Queensway Dr  
Long Beach, CA 90802
- CO** CSU Chancellor's Office  
401 Golden Shore  
Long Beach, CA 90802
- P** Shoreline Aquatic Park (lunch on 4/29)  
Aquarium Way  
Long Beach, CA 90802

- ### POINTS OF INTEREST
- 1 Queen Mary
  - 2 Aquarium of the Pacific
  - 3 Catalina Landing
  - 4 City Hall
  - 5 Convention Center
  - 6 Terrace Theater
  - 7 Museum of Latin American Art
  - 8 Pacific Island Ethnic Art Museum
  - 9 The Collaborative Art Space
  - 10 East Village Art Park
  - 11 K-9 Corner Dog Park
  - 12 Downtown Dog Park
  - 13 Alta Way Paseo
  - 14 Promenade Square Park
  - 15 Harvey Milk Park
  - 16 Cesar E. Chavez Park
  - 17 Golden Shore Biological Reserve
  - 18 Shoreline Aquatic Park
  - 19 Lincoln Park
  - 20 Drake Park

# **Water Resources and Policy Initiatives**

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[www.calstate.edu/water](http://www.calstate.edu/water)

