

CSU The California State University

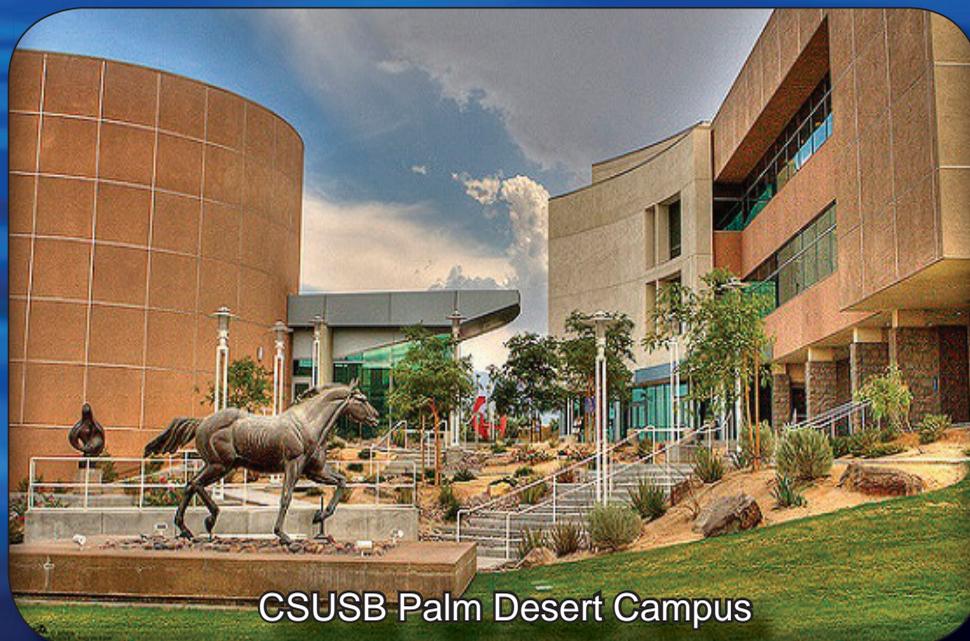
WRPI 

WATER RESOURCES & POLICY INITIATIVES

www.calstate.edu/water

10th Annual Conference
April 5-6, 2018
Palm Desert, CA

"Changing the Path of Waterways: The Unforeseen Consequences"



CSUSB Palm Desert Campus





Vision

Water Resources and Policy Initiatives (WRPI) will be a resource for education, research, and policy development to help state agencies, regulators, and lawmakers achieve a long-term, sustainable water supply for California based on good science. The WRPI aims to convene and organize the vast knowledge and expertise related to water within the CSU and will help foster collaborations to demonstrate this capacity as a resource in California for information and solutions regarding the state's water resources.



Mission

The Water Resources and Policy Initiatives is designed to target the capabilities and resources within the 23 California State University Campuses to provide academic preparation, applied research, and partnerships with stakeholders, addressing all aspects of water use. WRPI serves to focus synergistically with the many centers and programs of excellence within the CSU on water issues.



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 to:

- Develop partnerships with water resource stakeholders to advance technology, support economic development, and create public awareness and support concerning water-related resources and issues for sustainable, reliable water with fair and equitable access.
- Support WRPI and expansion of CSU research and external funding through systemwide and multiple campus coalitions.
- Promote career awareness through high-impact practices in education, training, and professional capacity building.

WRPI Annual Conference Agenda

April 5, 2018

Cal State San Bernardino, Palm Desert Campus - Indian Wells Theater

"Changing the Path of Waterways: The Unforeseen Consequences"

8:00 am	Conference Registration and Continental Breakfast	
8:45 am	Conference Overview	Kathleen Firstenberg, Program Manager, WRPI
9:00 am	Welcome	Dean Sharon Brown-Welty, CSUSB Palm Desert Provost Shari McMahan, CSUSB
9:20 am	Changing Waterways (throughout CA) - <i>Changing Water Courses: Unintended Consequences of Water Resource Projects</i> - <i>The Ecological Health of Streams in Southern California: Regional Conditions and Responses to Flow Alteration</i> - <i>Temperance Flat, A Proposition 1 Applicant, Why is a New On-river Dam in the Mix?</i>	Moderator: Umar Ghuman, Stanislaus State Stuart Strum, Army Corps of Engineers Raphael Mazor, Southern California Coastal Water Research Project Sarge Green, CA Water Institute, Fresno State
10:20 am	Network	Lobby
10:45 am	Changing Waterways (Coachella Valley) - <i>"Breaking Point" trailer</i> - <i>A Very Brief History of the Salton Sea</i> - <i>The Salton Sea Archives</i> - <i>Historic Steps to Revitalize the Salton Sea</i> - <i>Survey: Educational Initiative for the Salton Sea</i>	Moderator: Kristine Diekman, CSU San Marcos http://www.breakingpointdoc.com/ Sid Burks, CSUSB Palm Desert Suzie Earp, Water Resources Institute Phil Rosentrater, Salton Sea Authority Suzie Earp, Water Resources Institute
11:45 am	Tour the Salton Sea Archives Lunch	Water Resources Institute Palm Desert Health Sciences building
12:45 pm	Student Poster Session	Health Sciences building
1:30 pm	Featured Speaker - <i>Establishing Environmental Flows for California Streams</i>	Eric Stein, Southern California Coastal Water Research Project
2:00 pm	CSU Faculty/Student Presentations - <i>Restoration in the Sacramento River Corridor</i> - <i>Ethiopia's Gibe III Dam: Development Challenges, Environmental Public Health, and Political Impacts</i> - <i>The Impacts of Changing Waterways on Individuals Experiencing Homelessness</i>	Moderator: Laura Ramos, Fresno State Anita M. Chaudhry, CSU Chico Emmanuel Iyiegboniwe, CSU San Marcos Regina Guerre, CSU San Bernardino (student)
2:45 pm	- <i>Water Ways: Changing Education Models in the Water Industry</i>	Pamela Murawski, Sacramento State
3:00 pm	Network	Lobby

- continued -

3:30 pm	Keynote Speaker - <i>Water in the Coachella Valley</i>	Cástulo Estrada, Coachella Valley Water District
3:50 pm	Update on WRPI grants Wrap up and Comments	Boykin Witherspoon
4:30 pm	Conference Adjourn* – Dinner on your own	
7-9 pm	Post-Conference Networking Reception & Film Screening 7:00 dessert (cocktails available at Harvey's Lounge) 7:30 "Breaking Point" – film screening and Q&A	Hilton Palm Springs (Horizon I Ballroom) Bill Wisneski, Producer/Director

*Two buses available from CSUSB Palm Desert Campus to Hilton Palm Springs. Departure times planned for 4:40 & 4:50 pm.

Tour

April 6, 2018

7:45 am	Load bus at Hilton Palm Springs
8:00 am	Bus departs Hilton Palm Springs
9:00 am	Salton Sea Tour Start at north shore and go down east side Videos & Speakers from Salton Sea Action Committee
9:45 am	John L Featherstone Geothermal Power Plant (southeast side)
10:15 pm	Fish & Wildlife restoration projects (southwest side)
11:30 am	Lunch at Johnson's Landing
12:30 pm	Salton City & beach access (west side)
1:00 pm	Load bus
Approx. 2:30	Bus drops off at Hilton Palm Springs

Salton Sea photo by Boykin Witherspoon

WELCOME MESSAGE



Boykin Witherspoon III

Executive Director, WRPI

Dear Conference Attendees:

We are pleased to introduce the new CSUSB Palm Desert Campus to the WRPI community. Thank you for attending the 10th Annual WRPI Conference. I hope you enjoy the opportunity to look around and get to know the campus, staff, students, and some of our guests from the surrounding community. As the WRPI continues to grow we have added new staff to help support our activity. I hope you get the opportunity to meet Tamara Fukumoto, Jackie Aboud, and Tim Clark. I would also like us all to thank the original WRPI team that bring the conference together every year. Thank you Nicole Barnhart, Kathleen Firstenberg, Yvette Castellanos, Steve Keough, Christina Rodriguez, Roger Shintaku, Ali Sharbat, and our dedicated student employees.

This year's conference will explore the ramifications of changing the landscape in relation to our use and stewardship of water. The scales and impacts of these changes vary greatly. There are massive projects like the restoration/mitigation of the 300-square-mile Salton Sea, representing a single-source impact, as well as small alterations to urban streams that have a cumulative impact of similar magnitude. I am very pleased with the varied scales and examples the conference committee has assembled for our consideration today. Again, thank you for attending the 2018 WRPI Annual Conference.

Sincerely,

Boykin Witherspoon III

Special thanks to the WRPI Conference Planning Committee:

Jackie Aboud
Pitiporn Asvapathanagul
Nicole Barnhart
Yvette Castellanos
Sen Chiao
Michael Clemson
Julianna Delgado
Kristine Diekman
Claudia Espinosa

Horacio Ferriz
Kathleen Firstenberg
Umar Ghuman
Arlene Haffa
Steven Kerns
Leila Khatib
Sudarshan Kurwadkar
Tanisha-Jean Martin
Phoolendra Mishra
Mohammad Masoud Modabernia

Laura Ramos
Maryam Shafahi
Ali Sharbat
David Still
Rebeka Sultana
Ellen Suryadi
Dessie Underwood
Boykin Witherspoon
David Zoldoske

WRPI Presidential Oversight Committee

WRPI appreciates the continued support of the Presidential Oversight Committee.
Without your support, our work would not be possible. Thank you!



Tomás D. Morales
San Bernardino
WRPI Presidential Oversight Committee Chair



Jeffrey D. Armstrong
San Luis Obispo



Joseph I. Castro
Fresno



Soraya M. Coley
Pomona



Dianne F. Harrison
Northridge



Robert S. Nelsen
Sacramento



Lisa Rossbacher
Humboldt

Welcome from CSUSB Palm Desert



**Sharon Brown-Welty, Dean
California State University, San Bernardino, Palm Desert Campus**

37500 Cook St
Palm Desert, CA 92211

909-537-8101
sharonb@csusb.edu

Dr. Sharon Brown-Welty was appointed Dean of Cal State San Bernardino's Palm Desert Campus in July, 2014 where she oversees the operations of a university campus. In her capacity as Dean, she is responsible for the academic offerings, student life programs, community outreach and fund raising, and general administration and operations of the campus. Since her appointment as Dean, she has chaired the OneFutures Committees on Education: College Access and Completion, and also has chaired the Committee on Successful Transitions. She serves on the HARC (Health Assessment and Research for Communities) Board, the Lift to Rise Board, the OneFuture Coachella Valley Board, the CVEP Board (Honorary Member), the Greater Palm Springs Convention and Visitors Bureau, as well as on several committees of the Clinton Health Matters Initiative.

Previously, Brown-Welty served in a number of positions at Fresno State, including Dean of Graduate Studies, Department Chair of Educational Research and Administration, and Associate Vice President for Academic Affairs. She designed the doctoral program and directed the first Doctoral Program in Educational Leadership at Fresno State and was on the early Carnegie Project on the Education Doctorate (CPED) convening organization. Prior to arriving at Fresno State, she served at Indiana University of Pennsylvania as the Assistant Provost, the Interim Associate Provost, and as the Assistant to the Vice President for Finance. Dr. Brown-Welty has a bachelor's and master's degree in business administration from Indiana University of Pennsylvania, and an educational doctorate in higher education administration and policy studies from the University of Pittsburgh.



**Shari McMahan, Provost and Vice President for Academic Affairs
California State University, San Bernardino**

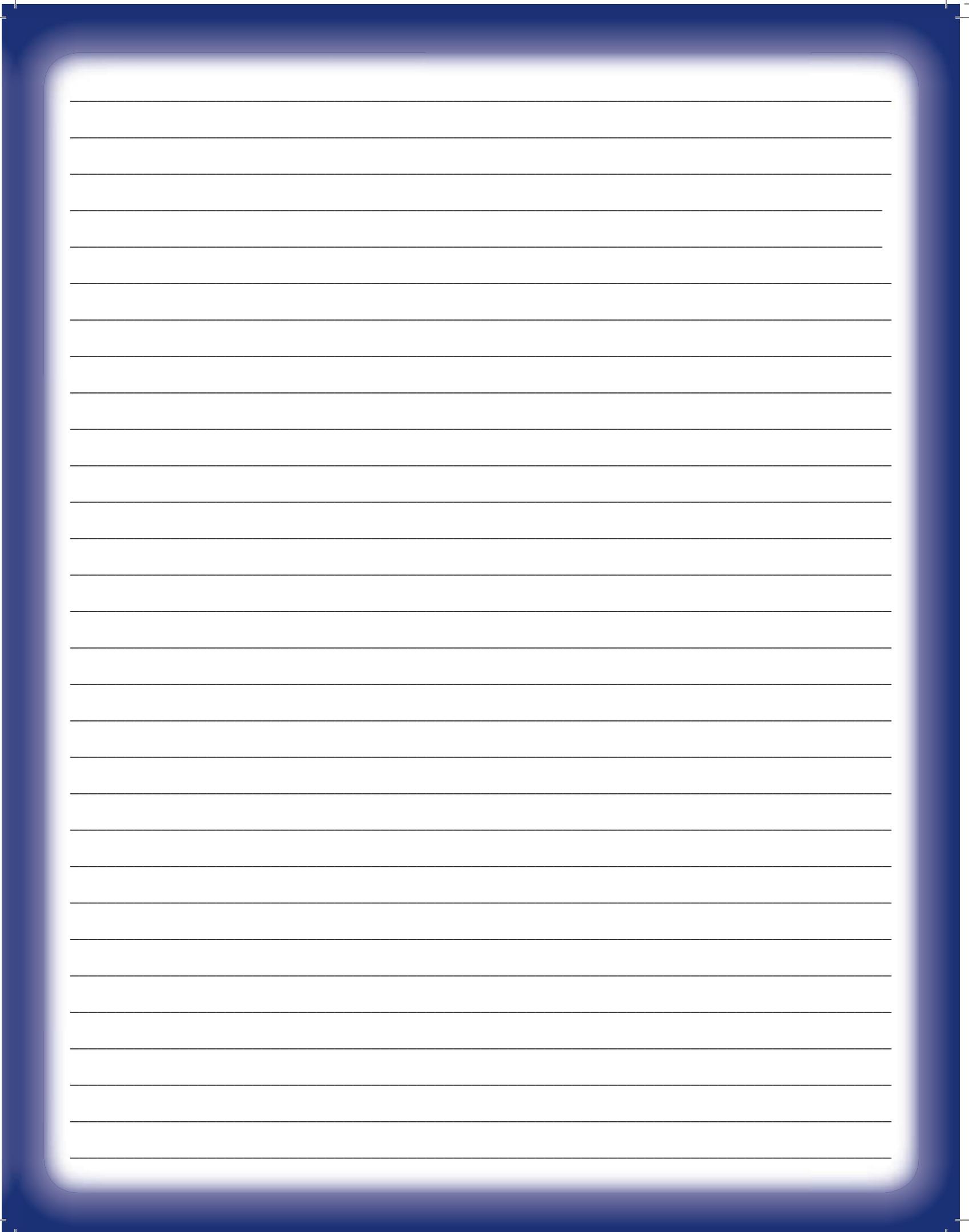
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smcmahan@csusb.edu

Dr. Shari McMahan is the Provost and Vice President for Academic Affairs at California State University, San Bernardino. She is responsible for leading the largest division, with an annual budget of more than \$80 million and more than 1,000 faculty and staff members, within the university.

As a part of her role, Dr. McMahan oversees the university's five academic colleges, the College of Extending Learning, the university's library, and Palm Desert campus, as well as several other related entities, including undergraduate studies, graduate studies, teaching resources, academic programs, academic research, academic resources, and faculty affairs. She also serves as a member of the CSU Academic Council, the President's Cabinet at CSUSB, and the CSUSB's Philanthropic Foundation's Board of Directors. Additionally, she chairs the Provost's Cabinet and the Academic Affairs Council, and is co-chair of the Graduation Initiative 2025 steering committee.

Prior to joining Cal State San Bernardino, Dr. McMahan served in a myriad of leadership roles during her 16-year tenure at California State University, Fullerton. Additionally, she has been awarded more than \$4 million in external funding, authored more than 45 peer-reviewed journal articles, given dozens of scientific and community presentations, and served on numerous professional task forces.



GUEST SPEAKERS

Changing Waterways (throughout CA)

Moderator:



Umar Ghuman, Stanislaus State

Associate Professor; Co-Director, MPA Program, Dept of Political Science and Public Administration
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Turlock, CA 95382
209-667-3682
ughuman@csustan.edu

Dr. Umar Ghuman is an associate professor of Public Administration at California State University, Stanislaus. He received his PhD from Florida Atlantic University in 2011. Since then, he has published papers and conference proceedings concerning issues of emotional management in groups and organizations, as well as issues of strategic management in nonprofits. He received a teaching award from the university in 2015. He also consults for local and national nonprofits such as the Stanislaus Community Foundation and the United Way.



Stuart Strum, Los Angeles District of the U.S. Army Corps of Engineers

Water Resources Planner
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Los Angeles, CA 90017
213-452-3862
stuart.strum@usace.army.mil

Stuart Strum is a Water Resources Planner with the Los Angeles District of the U.S. Army Corps of Engineers. As a planner with the Los Angeles District, Mr. Strum manages the feasibility study for ecosystem restoration and water conservation at the Prado Dam Basin on the Santa Ana River in southern California. Prior to moving to Los Angeles, he supported the Louisiana Coastal Area Ecosystem Restoration Program and Greater New Orleans Hurricane and Storm Risk Reduction System as a contractor for the Corps of Engineers New Orleans District. He has 30 years of experience in environmental assessment and regulatory compliance for water resources, hazardous materials management, and site remediation projects.

He has also managed geophysical exploration programs for evaluation of groundwater resources and delineation of karst features such as caves and sinkholes. Mr. Strum has B.S. and M.S. degrees in geology.

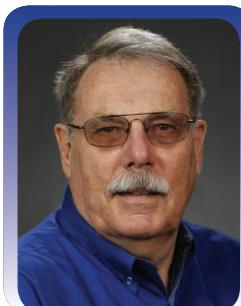


Raphael Mazor, Southern California Coastal Water Research Project

Senior Scientist
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Costa Mesa, CA 92626-1437
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raphaelm@sccwrp.org

Raphael Mazor is a Senior Scientist at Southern California Coastal Water Research Project (SCCWRP). He received a doctorate in Environmental Science, Policy, and Management from the University of California at Berkeley, and has worked at SCCWRP since 2006. He is a recognized leader in the field of bioassessment, organizing international conferences on the subject for the Society for Freshwater Science, and serving as a founding officer of their California chapter. As the coordinator of the southern California stream survey of the Stormwater Monitoring Coalition, he oversees the sampling efforts of several stormwater and regulatory agencies in one of the nation's most comprehensive stream assessment programs. He is a

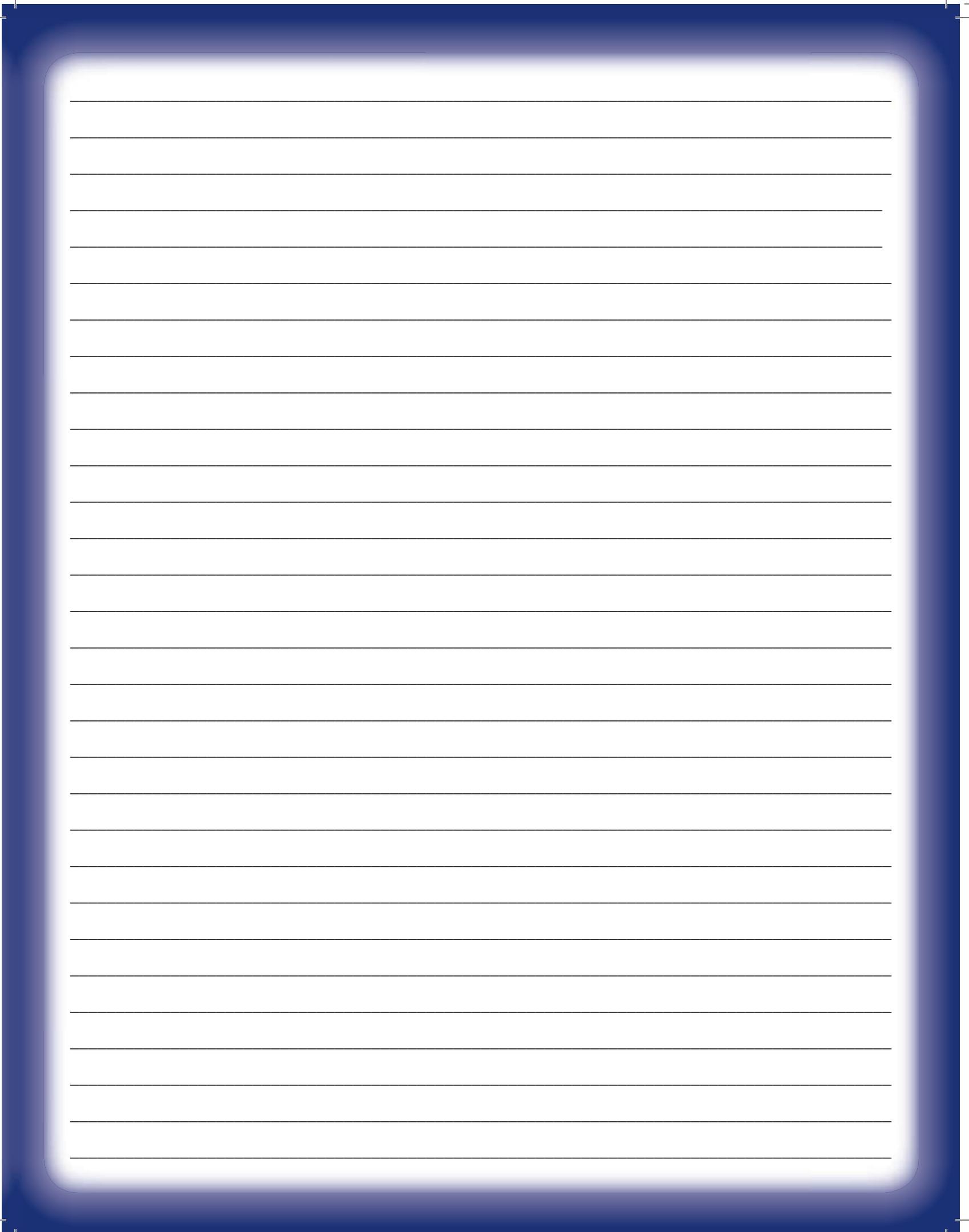
recognized leader in the assessment of intermittent rivers, having organized several international workshops and authored a forthcoming book chapter on the topic.



Sarge Green, California Water Institute, Fresno State

Water Management Specialist
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559-278-8653
sgreen@csufresno.edu

Sarge Green is a water management specialist at the California Water Institute and Center for Irrigation Technology at California State University, Fresno. His main focus has been water policy and integrated regional water management in the San Joaquin Valley. Currently, he is involved in rural water issues and groundwater management on behalf of the California Partnership for the San Joaquin Valley and the university. He also is a member of the Public Policy Institute of California, Water Policy Center research network. Green served previously as General Manager of Tranquility Irrigation District in western Fresno County for 18 years, and also worked 13 years at the Central Valley Region Water Quality Control Board.



BREAKING POINT



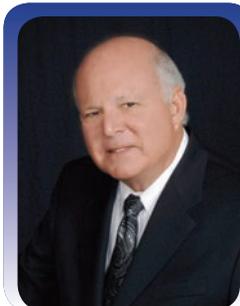
TIME IS RUNNING OUT...

DIRECTED & PRODUCED BY **BILL WISNESKI** ASSOCIATE PRODUCED BY **MONA WITHERINGTON** VIDEO EDITING BY **CHRIS CULP** WRITTEN BY **BILL WISNESKI & MONA WITHERINGTON**
MOTION GRAPHICS BY **LILY PATTERSON** CINEMATOGRAPHY BY **BILL WISNESKI & MONA WITHERINGTON** SOUND MIXING BY **LUKE BISAGNA** ENGINEERING BY **MIKE JANAK**

GUEST SPEAKERS

Changing Waterways (Coachella Valley)

(cont.)



Sid Burks, CSUSB San Bernardino and Palm Desert

Lecturer/Coordinator, Career and Technical Education, College of Education
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Sid Burks retired from the California Community College system where he was an instructor and an administrator. He currently is a full-time faculty member and coordinator for Career and Technical Education at the San Bernardino and Palm Desert campuses of CSUSB. He has strong interests in military, aviation, and desert history. Sid has given more than 20 presentations on the Military History of the Salton Sea. He began studying the general history of the Salton Sea in order to answer the many questions asked during his presentations. Due to the high degree of interest, he has developed a comprehensive presentation about the history of the Salton Sea. His presentation today is an overview of that presentation.



Suzie Earp, Water Resources Institute, CSUSB San Bernardino and Palm Desert

Archivist and Interim Director
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San Bernardino, CA 92407
909-537-7683
earps@csusb.edu

Suzie Earp is the Archivist and Interim Director of the Water Resources Institute (WRI) at California State University, San Bernardino. The WRI manages a large water library which concentrates on the Santa Ana Watershed, Mojave Watershed, and the Whitewater/Salton Sea area. The Santa Ana and Mojave collections are held at the main campus at San Bernardino and the Whitewater/Salton Sea Archives is located at the Palm Desert Campus. The Archives also hold a unique collection of over 108,000 historic aerial photos related to water resources in the west that covers the 1920s through 2015.

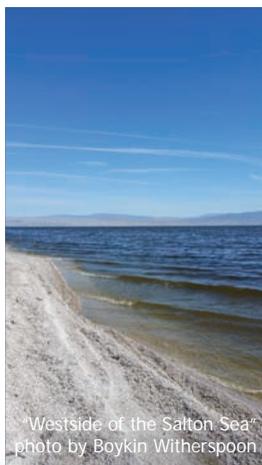


Phil Rosentrater, Salton Sea Authority

General Manager and Executive Director
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Phil Rosentrater serves as the General Manager/Executive Director for the Salton Sea Authority. The Salton Sea Authority (SSA) is a Joint Powers Authority created in 1993 to oversee the revitalization of California's largest inland Sea. The SSA is comprised of two counties, two large water agencies, and a tribal sovereign nation: Riverside and Imperial Counties, Imperial Irrigation District, Coachella Valley Water District, and Torres Martinez Tribe. Before assuming the GM responsibilities at SSA, Phil split his time with other duties at Riverside County Economic Development Agency in addition to providing advocacy support for SSA in coalition building and development of policies and funding necessary to expedite progress at the Sea.

Prior to his current position, Phil also provided direction for EDA Divisions of Aviation (five regional airports), Office of Foreign Trade, Energy Division (Water and Power), Economic Development, Office of Film & Television, Business Solutions, and EDA Marketing.



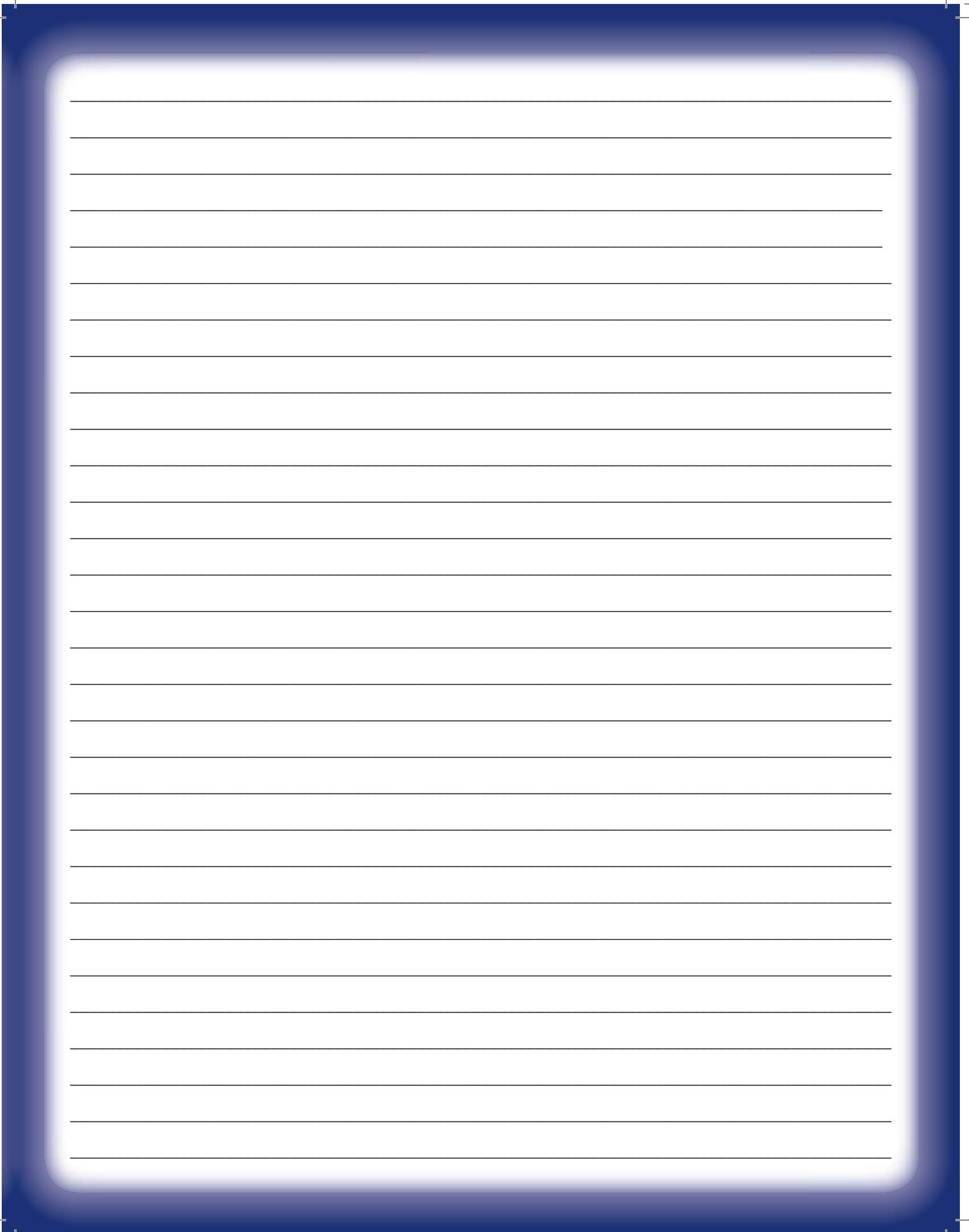
"Westside of the Salton Sea"
photo by Boykin Witherspoon



"Dead Fish" photo by Bill Wisneski



"Mud Pots" photo by
Boykin Witherspoon



STUDENT POSTERS

PRESENTERS:

Bakersfield

Anthony Ponce and Jacob Rodriguez

East Bay

Emilio Grande
Nate Veale

Long Beach

Jim Nguyen and Crissini Sison
Tam Doan and Leela Stevens

Monterey Bay

Keiley Hansen and Rene Nunez
Shawnte Greenway
Zane Mortensen

Pomona

Christopher Chiu
John Kest, John Nguyen, Justine Nguyen, and Binh Phun
Jorge Gonzalez Figueroa

San Bernardino

Jose Santos Cruz

San Diego

Tanisha-Jean Martin

San Francisco

Darren Blackburn

Sonoma

Colby Accacian, Shauna Langan, and Jailene Sotelo
Carlye Chandler and Clint Hopkins
Christian DeCasas

Stanislaus

Taiga Yamaguchi



Palm Desert and San Jacinto
Mountains, CA 2-14
Photo by Don Graham

GUEST SPEAKERS

CSU Faculty/Student Presentations

Moderator:



Laura Ramos, Fresno State

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



Anita M. Chaudhry, CSU Chico

Associate Professor, Department of Economics
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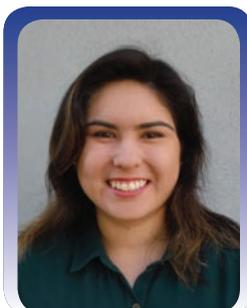
Anita M. Chaudhry is Associate Professor in the Department of Economics at CSU Chico. Her research explores how people's access to and control of natural resources shape economic outcomes. The bulk of her research experience has been on topics related to water use, agricultural production, land use change, economic growth, and poverty. She completed her doctoral work at the University of Wyoming and was awarded the 2014-15 Outstanding Research Mentor Award at CSU Chico. Her webpage is at: <http://myweb.csuchico.edu/~achaudhry/>



Emmanuel A. Iyiegbuniwe, CSU San Marcos

Associate Professor; Director, Public Health
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Emmanuel Iyiegbuniwe, PhD, MSPH, MBA is an Associate Professor and Director of Public Health at California State University San Marcos. He has over 25 years of academic, administrative, and consulting experience, and currently provides vision, leadership, and direction for the MPH program (concentrations in Health Promotion & Education and Global Health). He received MSPH and PhD degrees in Environmental & Occupational Health Sciences from University of Illinois at Chicago and an MBA from Western Kentucky University. He teaches and conducts research in environmental/occupational health science and has published many peer-reviewed articles and book chapters as well as directed/mentored students' theses and capstone projects. For 12 years, he served as Steering Committee member of NIOSH's Pilot Research Project Symposium. Professor Iyiegbuniwe is a Thomas Jefferson scholar and fellow of American Industrial Hygiene Association's Future Leaders Institute, CDC's Environmental Public Health Leadership Institute, and American Association of State Colleges & Universities' Japan Studies Institute.



Regina Guerre, CSU San Bernardino Grad Student

Intern, Inland Empire Waterkeeper
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guerrer@coyote.csusb.edu

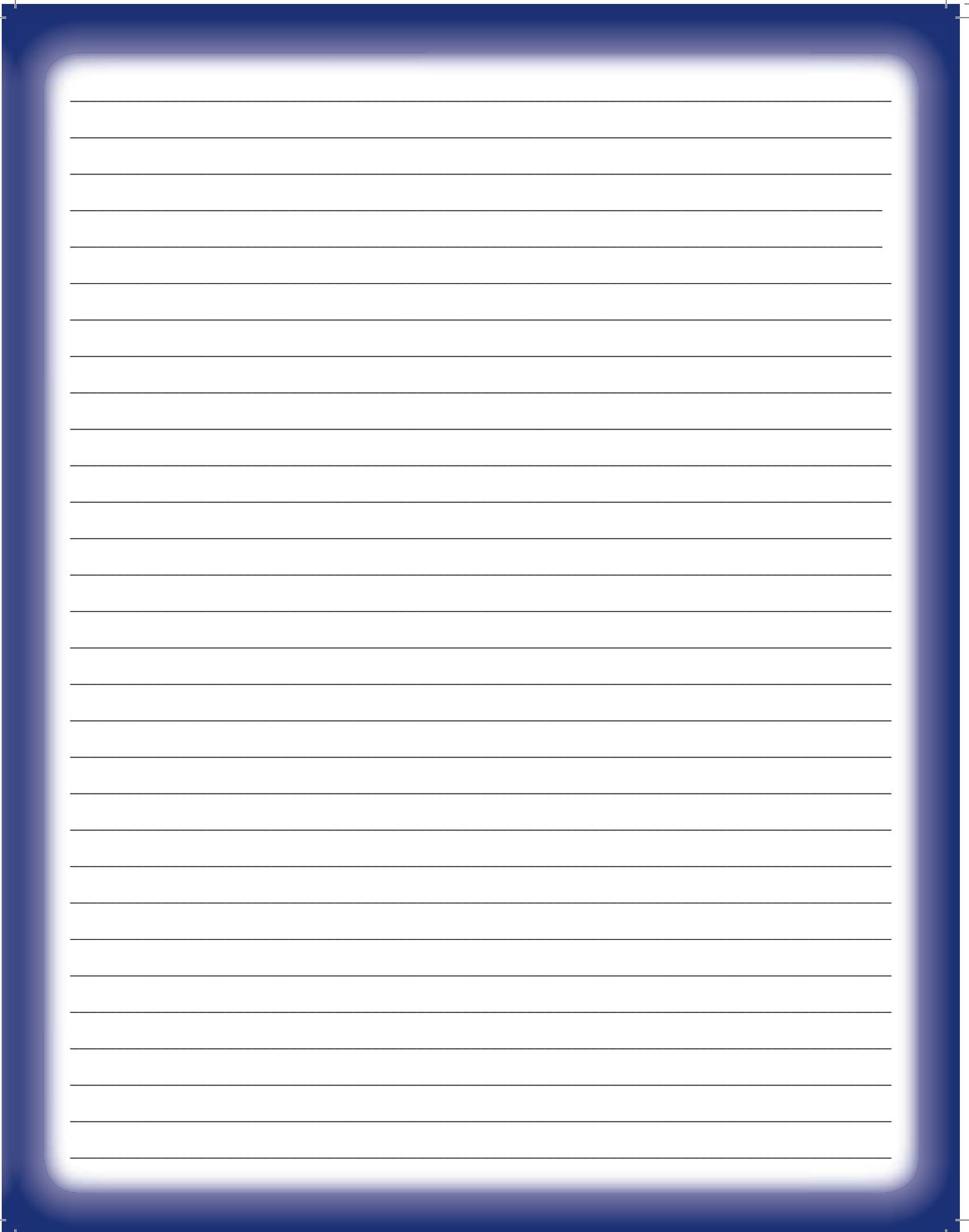
The WRPI Community Water Internship Program has provided Regina Guerre with the opportunity to explore the impacts of changing waterways. Through her internship with Inland Empire Waterkeeper, she has worked on the development of the Clean Camp Coalition. This program seeks to improve water quality and provide resources to homeless individuals in the watershed. Regina received her B.A. in Geography in 2016 from California State University, Long Beach. She is now pursuing a graduate degree at California State University, San Bernardino in the National Security Studies Program. Her concentrations are in intelligence analysis and geographic information systems.



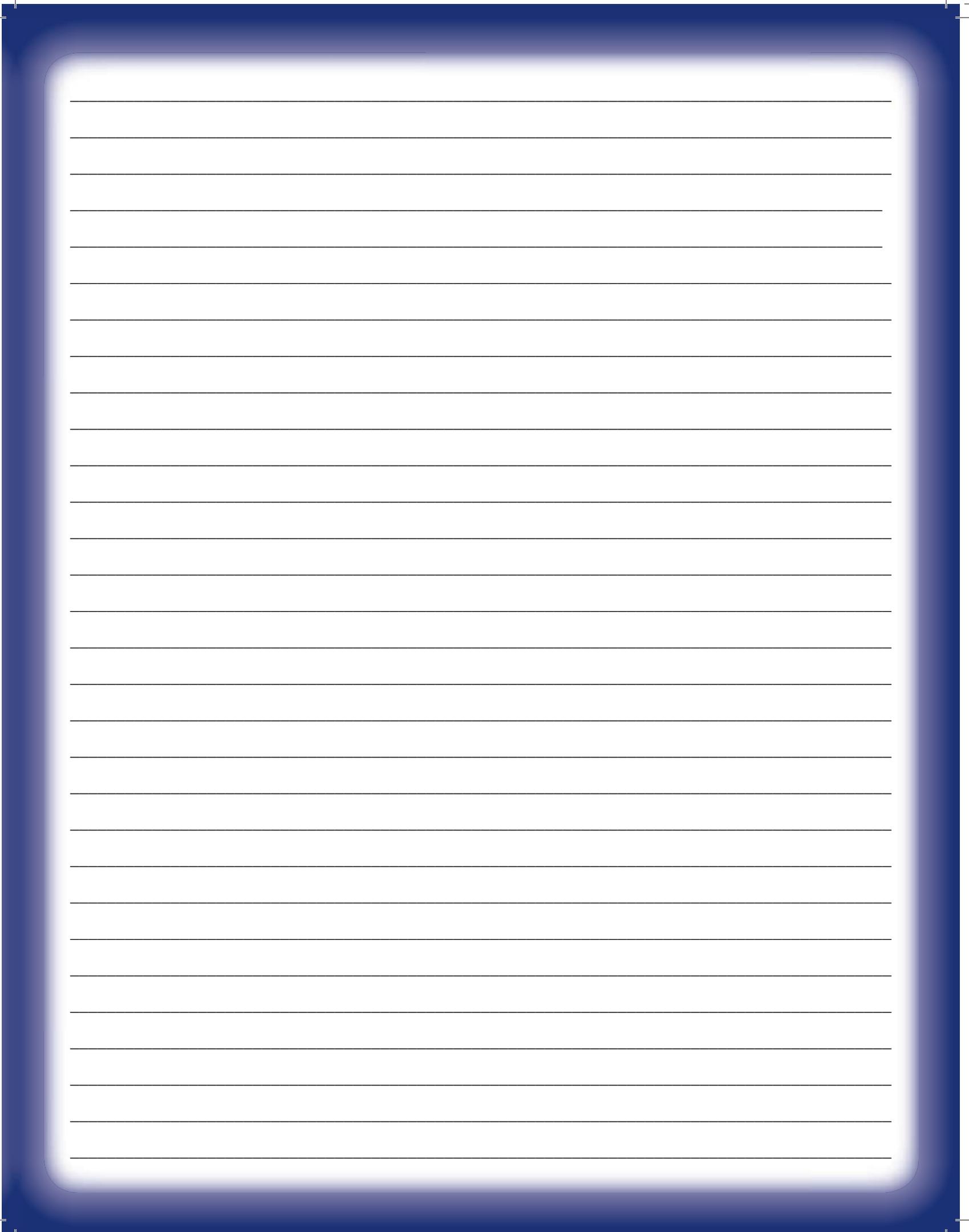
Pamela Murawski, Sacramento State

Education Programs Developer, Office of Water Programs
6000 J Street
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916-278-6385
pamela.murawski@owp.csus.edu

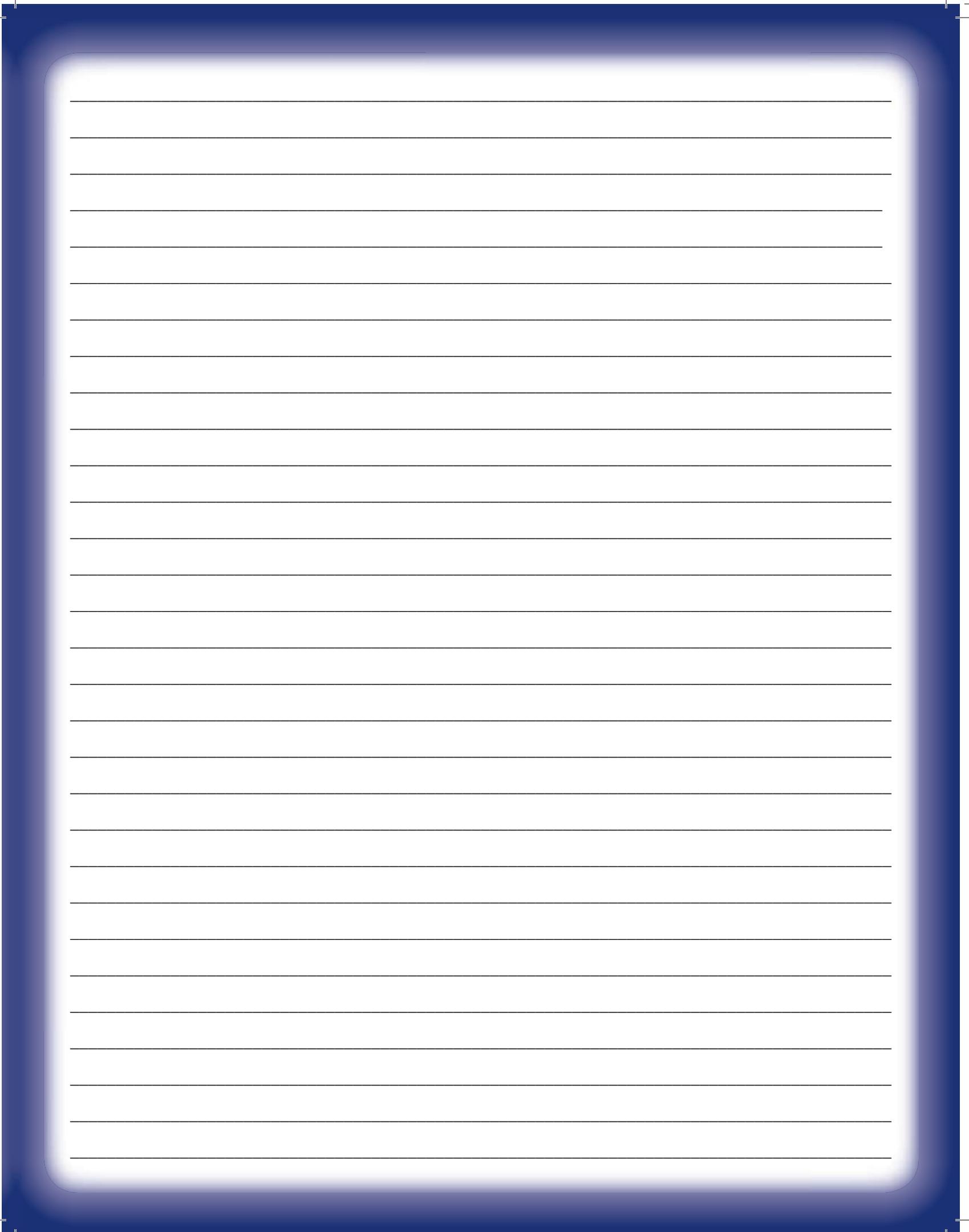
As the Education Programs Developer at the Office of Water Programs, California State University, Sacramento, Pam works to facilitate the creation of career pathways for water operations specialists. She holds a Master's degree in Career and Technical Education, and her primary focus is on improving operator knowledge and educational attainment, which contribute to a highly skilled and sustainable water workforce.



This image shows a blank sheet of lined paper. The paper is white and features 25 horizontal lines spaced evenly down its length. The lines are thin and black. The paper is framed by a thick, dark blue border. The corners of the paper are rounded. There are small black marks at the corners of the page, likely from a scanner or a corner marker.



This image shows a blank sheet of lined paper. The paper is white with a dark blue border. The writing area is defined by 25 horizontal lines, evenly spaced, starting from the top margin and ending at the bottom margin. The lines are thin and black. The paper is otherwise empty of any text or markings.



ATTENDEES

Jackie Aboud

Student Assistant
WRPI
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aboudj@coyote.csusb.edu

Jackie Aboud currently works at the WRI/WRPI as a graduate student assistant while she completes her M.A. in National Security Studies at CSUSB. Ms. Aboud also attended CSUSB as an undergraduate student where she graduated with a B.A. in Political Science and a minor in the Arabic language. This is Ms. Aboud's first time attending the WRPI Annual Conference and she looks forward to learning more about waterways!

Colby Accacian

Student
Sonoma State University
caccacian@gmail.com
Colby Accacian is a Sonoma State student, interested in water resources as it relates to agriculture and groundwater management.

Jennifer Alford

Assistant Professor of Geography and Environmental Studies
California State University, San Bernardino
910-547-4245
jennifer.alford@csusb.edu
Dr. Jennifer B. Alford is an Assistant Professor in the Department of Geography and Environmental Studies at CSUSB. She grew up along the North Carolina coast, where she developed a passion for conserving the unique natural resources and ecosystems of the southeastern United States. Prior to joining the faculty at CSUSB, her endeavors included teaching at small liberal arts colleges and large regional universities, developing public-private partnerships, and working with stakeholders to implement comprehensive environmental programs and policies. Dr. Alford's teaching and research interests reflect her passion for understanding and illustrating the geospatial interplay between human activities and complex environmental systems.

Levi Anderson

Environmental Technician
Twenty-Nine Palms Band of Mission Indians
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landerson@29palmsbomi-nsn.gov
Levi Anderson is a Water Quality Technician at Twenty-Nine Palms Band of Mission Indians.

Pitiporn Asvathanagul

Assistant Professor
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562-985-5147
Pitiporn.Asvathanagul@csulb.edu
Professor Asvathanagul is an Environmental Engineering faculty at CSULB. The experience that she has gained from two and a half years as an Environmental Engineer designing water and wastewater treatment plants, combined with 10 years of research experience in the field, has given her great insight into the many challenges that environmental engineers face today. Her research philosophy combines environmental engineering, microbiology, and other related fields to develop new technologies and to enhance the efficiency of our current biological water/wastewater treatment prior to produce useful and harmless water supply and reclaimed water.

Reza Baghaei Lakeh

Assistant Professor
California State Polytechnic University, Pomona
909-869-2493
rblakeh@cpp.edu
Dr. Reza B Lakeh is an Assistant Professor in the Mechanical Engineering Department at Cal Poly Pomona. He is currently leading a project to develop a Decentralized Renewable Off-grid- Water Treatment (DROWT). The DROWT project is supported by Metropolitan Water District of Southern California.

Jennie Bahramian

Student
California State University, East Bay
jennie.bahramian@gmail.com
Jennifer Bahramian is a graduate student at Cal State East Bay, majoring in Environmental Geoscience. Her area of focus is and will be more on wetlands effecting greenhouse gas and reactive gas emissions. In the future, Bahramian would also like to research crops productivity affected by incorporating the stable isotopes of oxygen and carbon.

Nicole Barnhart

Administrative Coordinator
WRPI
909-537-5529
nbarnhar@csusb.edu
Nicole Barnhart is the Administrative Coordinator for CSU San Bernardino's Water Resources Institute (WRI), as well as the WRPI. Mrs. Barnhart is responsible for overseeing office activities, reimbursement processing, creating marketing material, and event planning. Her true passion is in vocal performance and education, but she has also enjoyed her 15+ years in the administrative field. She is in training to become a certified MDH Breathing Coordination Practitioner, a method that is highly beneficial for singers, public speakers, and athletes.

Chandranath Basak

Assistant Professor
California State University, Bakersfield
661-654-3400
cbasak@csusb.edu
Professor Basak is an Assistant Professor at the California State University, Bakersfield. Professor Basak's areas of expertise include geochemistry with an interest in studying modern oceanic processes, the ocean's role in past climates, and water quality due to environmental contaminants.

Ritin Bhaduri

Assistant Professor
California State University, Stanislaus
209-667-3485
rbhaduri@csustan.edu
Dr. Ritin Bhaduri, Assistant Professor of Biological Sciences, shares his passion and knowledge of Marine Biology, Invertebrate Zoology, and Parasitology with students at California State University Stanislaus. His recent work with the mole crab, *Emerita analoga*, and its parasitic and commensal fauna resulted in three recent publications, adding to a total of over 20 publications throughout his career. He is an active member of the American Society of Parasitologists and the Crustacean Society.

Darren Blackburn

Student

San Francisco State University
d.alden.blackburn@gmail.com

Darren Blackburn, M.A., Department of Geography & Environment at San Francisco State University. Darren's thesis research investigated carbon and water cycles of a partly degraded meadow at 2000m, on the western flank of the northern Sierra Nevada. In this meadow he established an eddy covariance station continuously monitoring CO₂, water, and energy fluxes for most of the snow-free period in 2016, following an average snow winter. This revealed a strong seasonal carbon cycling, driven principally by soil moisture content, with extremely high peak growing season daily carbon uptake rates and evapotranspiration rates in comparison with other ecosystems.

Steve Blumenshine

Professor of Biology

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Dr. Steve Blumenshine is a Professor of Biology and has been at Fresno State since 2001. He leads an active lab with funded research mainly focused on the San Joaquin River Restoration Project and the ecology of juvenile Chinook Salmon.

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Julia Bogany is a member of the Tongva tribe, is on their Tribal Council, and is their Cultural Consultant. Julia constantly, incessantly, and voluntarily teaches, attends meetings, and sits on Boards to help her tribe. She has provided cultural, FASD, ICWA, trainings and workshops in Los Angeles, San Bernardino, and Riverside areas. She has also provided workshops in Sacramento for the California Rural Indian Health Board Women's Conferences. In September 2010, she received the Heritage Award from the Aquarium of the Pacific. New book, "Tongva Woman Empowering the Future."

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Danielle Bram is a GIS Professional with over 18 years of experience in the public agency, university, and nonprofit sectors. Her applied research interests and experience cover a variety of topics such as municipal, conservation, water resource, and transportation GIS. In addition to her work experience, she has served as a GIS instructor for both university students and local government staff. Danielle is currently Director of the Center for Geospatial Science and Technology at CSU Northridge.

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Erin Bray is an Assistant Professor in the Department of Geography (Emphasis: Hydrologic Science & Fluvial Geomorphology) at CSU Northridge conducts field and modeling research in rivers. Her research is focused in river systems science, fluvial geomorphology, and hydrologic science, and in the application of river science to water resources management and river restoration. Her research seeks quantitative understanding of hydrologic and geomorphic processes in river systems and floodplains at human and ecological timescales, ranging from a single storm event to several centuries, and across a broad range of spatial scales. Her approach uses field observations, modeling, and theory to generate insights that can be used to anticipate or adapt to freshwater challenges in different ways.

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Emily Brooks is an environmental anthropologist and postdoctoral scholar with the Department of Anthropology at the University of California, Irvine. Her work investigates the cultural politics of water scarcity and environmental vulnerability in southern California, with an emphasis on community-engaged research. In her current position, she is part of an interdisciplinary team developing a Community Water Ethnography for the Santa Ana Watershed Project Authority's Disadvantaged Community Involvement Program. Her research has been supported by the American Council of Learned Societies, the Wenner-Gren Foundation, the UC California Studies Consortium, and the Steele/Burnand Anza-Borrego Desert Research Center.

Yvette Castellanos

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Yvette Castellanos is a Project Coordinator for the WRPI. She works alongside the Intern Manager, Christina Rodriguez, coordinating and executing all the necessary requirements, projects, and internships for the USDA grant. She helps manage students from all twenty-three CSU campuses, faculty, and project managers, as well as from the California Community Colleges. Yvette is currently a graduate student at The University of Redlands, working on her Masters in Higher Education. Her goal is to further her career in Higher Education, advising and advocating for education. Yvette is grateful for the opportunity to work at the WRPI/WRI with great staff who share common values such as excellence and making a difference.

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Christopher Chiu

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Christopher Chiu is attending California State Polytechnic University, Pomona, Department of Civil Engineering with an Environmental emphasis. Throughout his undergraduate years, he was actively involved in various student organizations such as ASCE, CWEA-AWWA, and Concrete Canoe Team. He has a strong background in water treatment and resources and is skilled in problem solving. His previous work experience has helped him develop his strong interest in water. Last year, his senior project was with Dr. Monica Palomo, Associate Professor in Civil Engineering, working to design a decentralized wastewater treatment facility for Disadvantaged Communities in East Coachella Valley.

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Ronald Coleman is a Professor of Biological Sciences at Sacramento State University. Professor Coleman studies the evolution, ecology, and behavior of fishes, particularly freshwater species. Coleman works in freshwaters here in California, and also in Central America, mostly Costa Rica. He has a particular interest in the tilapia of the Salton Sea.

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Brian is a Research Engineer with the Office of Water Programs at Sacramento State. Brian's primary focus is stormwater quality and water supply resilience.

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Mr. Davis has been the Chief Planning and Development Officer for the Agua Caliente Band of Cahuilla Indians in Palm Springs for over two decades. Prior to working for the Tribe, Mr. Davis was a partner in two consulting firms over a fourteen-year period serving cities, counties, and real estate development companies. His past public experience includes over two years with the City of Chula Vista Planning Department, Planning Commissioner of the City of Coronado, and numerous appointments with the City of San Clemente. Mr. Davis presently sits on the Board of the Coachella Valley Economic Partnership and the Coachella Valley Housing Trust, and is a member of the California Planning Roundtable. He was recently reappointed by Governor Brown to the Colorado Regional Water Quality Control Board and named one of the most influential people of the Coachella Valley by Palm Springs Life magazine. Mr. Davis has extensive experience with multi-discipline, complex land planning projects. Mr. Davis received his Bachelor's Degree in Landscape Architecture at California State Polytechnic University. He has completed postgraduate coursework in real estate development, received his MA in Education from CSU San Bernardino, and is certified by the American Institute of Certified Planners.

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Christian DeCasas is an undergraduate transfer student at California State University, Northridge, majoring in Geographic Information Systems (GIS). He is currently a WRPI Watershed Management Experiential Learning intern at the Center for Geographic Studies. He is currently working on a National Hydrography Dataset (NHD) update project at the Center for the US Forest Service. His academic interests relate to environmental applications of GIS and online GIS applications.

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Professor Eiserloh is a Research Associate at the Center for Applied Atmospheric Research and Education Center at San Jose State University and a lecturer in the SJSU Meteorology Department. His research interests are WRF rainfall forecasting and modeling, data assimilation, forecast verification, and air pollution. He teaches global climate change, air pollution, and weather and climate 101.

Emily Estrada

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Emily Estrada is a student at San Diego State University- IV Campus in Calexico, CA. She is majoring in Public Administration and has an interest in sustainability. She is currently completing a WRPI Watershed Management Internship at the USDA-Farm Service Agency (FSA) in the Imperial Valley.

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Kathleen Firstenberg is the Program Manager for WRPI. She graduated from California State University, San Bernardino with a BA in Psychology and is currently pursuing her Master of Public Administration degree at CSUSB. She has worked in social services and higher education, and also operates a freelance editing and writing business.

Alan Fuchs

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Dr. Alan Fuchs is the Director of the California Energy Research Center (CERC) and Professor of Engineering at California State University, Bakersfield. He was the Chair of Chemical and Materials Engineering at the University of Nevada, Reno from 2010 – 2015 and faculty from 1998-2017. He has 40 peer reviewed manuscripts and 80 presentations. His research focus is energy and polymer materials for a variety of engineering applications, including fuel cell membranes and water treatment. He has developed novel materials for engineering applications, including intelligent materials (magnetorheological liquids and solids) and multifunctional materials for biomedical applications. He designed and built a bioprocessing laboratory for monoclonal antibodies. The CERC is working on applications related to: oil and gas, solar, wind, and bioenergy. He is currently Chair of the American Institute of Chemical Engineering (AIChE) and Career and Education Operating Council (CEOC), which is one of three operating councils that reports to the AIChE Board of Directors. Fuchs received his Ph.D. from Tufts University (Chemical Engineering), M.S. from University of Rochester (Chemical Engineering), and B.E. from Cooper Union School of Engineering (Chemical Engineering).

Tamra Fukumoto

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Tamra Fukumoto is a Program Manager for WRPI working with student interns on various water projects that service disadvantaged communities (DAC) in the state of California. She recently graduated from California State Polytechnic University, Pomona with a degree in Civil Engineering, where she was initially exposed to the DAC projects. This exposure sparked more interest in assisting similar communities that are in need of drinking water and sewer system improvements where she continues to provide her services.

Priya Ganguli

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Dr. Priya Ganguli is an Assistant Professor at CSU Northridge where she is part of the new Water Science Program. She studies the transport and fate of contaminants in aquatic environments, with a focus on mercury, nutrient, and carbon cycling. Priya is particularly interested in groundwater-surface water interaction, as well as the long-term effects of environmental remediation projects. She investigated mercury cycling at Malibu Lagoon (Ganguli et al., 2012) and at the abandoned New Idria Mercury Mine Superfund Site (Ganguli et al., 2000), and plans to conduct post-remediation studies at each of these locations.

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Philip Garone is Professor and Chair of History at California State University, Stanislaus. He teaches environmental history and his research focuses on 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 is currently working on a book project on the ecological and human history of the terminal lakes of the Great Basin of the American West.

Jorge Gonzalez Figueroa

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Jorge Figueroa, E.I.T. Cal Poly Pomona transferred to Cal Poly Pomona in 2015, where he met Dr. Palomo and she invited him to join one of her: The City of Los Angeles research project in hydraulic conductivity. He began knowing very little about hydraulic conductivity; nevertheless he read a lot of papers and caught himself up to the rest of the team. Since the beginning of the project, Figueroa has been in charge of the construction process for the apparatus, and eventually got to be the senior student in the project.

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Roberto González Jr. is the USDA-HSI Regional Director for southern California and Arizona, hosted at SDSU-Imperial Valley, serving as a resource for students, faculty/staff, and administrators from regional HSIs located in the southernmost part of California and throughout the state of Arizona as a networking hub to provide access and facilitate participation to USDA programs, services, and resources.

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Emilio Grande graduated with a BS in Geology from California State University, East Bay in 2017. He is currently working toward a master's degree in Geology. His research focuses in hydrogeology, use of isotopic tracers to study groundwater and surface water interaction, and evaluating transit time distribution. In his free time, Emilio enjoys live music, backpacking, and sailing in the San Francisco Bay.

Todd Greene

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Todd Greene is the Science Director for the Center for Water and the Environment (CWE). The primary responsibility of the Science Director is to work with the CWE Faculty Board to implement CWE's collective mission and goals. Dr. Greene's broad areas of research interests include tectonics and sedimentation, sequence stratigraphy, and depositional systems. His main focus is on basin scale questions using a variety of technologies to address paleogeographic and tectonic histories of basins. He has multiple students working with Tuscan Formation deposits, both in outcrop and in the subsurface, to better understand and model the framework of the aquifer, including permeability pathways and barriers.

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Shawnte Greenway, M.S. Marine and Watershed Science (2018) at California State University, Monterey Bay. Stormwater Management WRPI Watershed Internship.

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Jackie Guilford is a Lecturer in the Department of Geography, Environment, and Planning at Sonoma State University. Each semester, she leads students through the research process while answering a question posed by the Sonoma County Water Agency. Research projects done in recent semesters have evaluated the amount of nitrogen and phosphorus found in sediment deposited within the Laguna de Santa Rosa watershed.

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Dr. Hanif Gulmahamad earned a BSc in Agricultural Biology from Cal Poly Pomona in 1972. He earned his PhD in Entomology from University of California, Riverside in 1975, where he received the Harry Scott Smith Memorial student award as the outstanding graduate student in the Division of Biological Control in 1974. Dr. Gulmahamad was a Lecturer at Cal Poly Pomona School of Agriculture, as well as at University of Guyana, Turkey-en campus Department of Biology. From 1985 to 2002, he was a Technical Specialist at Terminix of Southern California, then worked at Los Angeles Unified School District as an Operations Training Specialist for nine years. He has been a Board Certified Entomologist through Entomological Society of America for over 30 years, and is the owner of EntoDoc Consulting Services, an Urban and Structural Entomology Consulting Company. Dr. Gulmahamad has published 84 technical and scientific papers including two chapters in *Mallis Handbook of Pest Control*, ninth and tenth editions, and is also the author of four books. He has been the Director of District 6, Chino Basin Water Conservation District since 2014.

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Maria Guzman is a GIS Analyst at the Center for Geographical Studies (CGS) at CSU Northridge. Maria has worked at CGS since 2014 and has worked on several Geographic Information Systems (GIS) based projects that have covered various topics. These include transportation, vegetation, and water resources. Maria is involved with current National Hydrography Dataset (NHD) improvement efforts for California, Arizona, and New Mexico, where surface water is modeled and updated using recent aerial photography and other datasets. The improved data is used by the US Geological Survey, US Forest Service, and California Department of Water Resources.

Keiley Hansen

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Keiley Hansen was introduced to water quality issues in her coursework as an Environmental Studies major. She became fascinated with CSU Monterey Bay's Bioremediation Project, researching the use of cultivated bacteria in woodchip bioreactors to reduce pollutants in agricultural effluent. As an Undergraduate Student Researcher with the project, she is investigating the impact of a supplemental carbon source on the rate of denitrification in woodchip bioreactors.

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Brad Haydel is the Energy & Sustainability Manager at Cal State LA. Prior to this role, Brad was a Consultant with DNV GL, where he specialized in coordinating energy efficiency and climate action planning projects for utilities and local governments within California. He is a graduate of the UCSB Bren School of Environmental Science & Management.

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Juan Herrera currently serves as the Campus Relations Manager for the CSU Chancellor's Office of Advocacy and State Relations. In this role, he serves as the legislative liaison with the 23 CSU campuses and develops advocacy and communication strategies to support the CSU's efforts in Sacramento. Prior to joining the CSU Chancellor's Office, Juan was at CSU San Bernardino as the Assistant Director of Government and Community Relations. A first-generation college student from the Inland Empire, Juan received a Bachelor's Degree in Political Science from CSU San Bernardino.

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Dr. Eric Houk is a Professor of Agricultural and Resource Economics at California State University, Chico. Dr. Houk's research focuses on the economics of water allocation and water conservation in the western United States. Specifically, he has examined water transfers from agriculture for endangered species preservation; the impacts of irrigation induced waterlogging and soil salinization; the factors influencing residential water conservation; and the economic and hydrologic impacts of various water management scenarios in the north state.

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Phillip Johnson is the Assistant Executive Director of the Salton Sea Authority (SSA). He has been with the Salton Sea Authority since 2015, working on legislative issues, outreach, technology, and various other matters at the SSA. He also serves as Chair of the Salton Sea Management Program's Long Range Planning Committee. His work experience includes work at the federal, state, and county levels of government. He graduated from California State University in 2016 with his Master's Degree in Public Administration, while obtaining his Bachelor's Degree in his native state of Iowa at Simpson College in 2012.

Steven Karp

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Steve Karp has served as the Interim Dean for Research for Humboldt State University since 2016 and Executive Director of the Sponsored Programs Foundation (SPF) since January of 2011. From 2005-2010, Steve served as the Associate Director of the Northern California Small Business Development Center (SBDC) at Humboldt State University. Steve possesses a rich background in the technology industry, where he worked in finance for several high tech firms and startups, including Apple Computer and Viacom. Steve received his B.S. in Economics from California Polytechnic State University and his M.S. in Systems Management from the University of Southern California.

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As a Cal Poly engineer, Kest learns by doing and strives to achieve excellence in any setting. He understands the moral responsibility that being an engineer entails and the goal of achieving maximum efficiency while holding safety paramount. Throughout his educational journey, Kest has had a consistent inclination toward mechanical engineering and research fields. He joined the DROWT (De-centralized Renewable Off-grid Water-Treatment) research project as he strongly believed that water and energy are the means by which our modern life is supported. Thus, as humans we need to keep working on sustainable solutions that are efficient and environmentally friendly.

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Dr. Khatib is Associate Director for the Master of Biotechnology program at SJSU. She teaches molecular methods courses and has worked in the water quality and water resource management field as a consultant for the State Water Resources Control Board and various cities and municipalities.

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Dr. Alicia M. Kinoshita is an Assistant Professor in the Department of Civil, Construction, and Environmental Engineering with an emphasis in water resources and hydrology. She received her Ph.D. from the University of California, Los Angeles and was a postdoctoral fellow at the Colorado School of Mines before joining San Diego State University. Her projects focus on understanding hydrologic changes after natural and anthropogenic disturbances using remote sensing, field studies, and modeling techniques. Her research is currently supported by the National Aeronautics and Space Administration, the San Diego River Conservancy, and the California State University Council on Ocean Affairs, Science & Technology.

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Dr. Sudarshan Kurwadkar is an Associate Professor in the Civil and Environmental Engineering Department at California State University, Fullerton. Before his academic career, he worked in the Division of Environmental Quality with the Missouri Department of Natural Resources. He is a Board Certified Environmental Engineer and a licensed Professional Engineer. His research interests are in the broadly defined areas of physical and chemical processes in environmental engineering. Specific examples are fate and transport of emerging contaminants such as pharmaceuticals compounds and insecticides in the environment; sorption and degradation kinetics of organic contaminants; and water quality investigations, mainly water quality impact due to intensive animal agriculture operations.

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Shauna Langan is a senior at Sonoma State University in the Environmental Studies and Planning department with a concentration in Energy Management and Design.

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Jingjing Li is an Assistant Professor in the Department of Geosciences and Environment at California State University, Los Angeles. Her research interests include remote sensing, hydrologic modeling, precipitation error analysis, GIS-based modeling of watershed-scale processes, and image processing. Her research has been published in hydrology and remote sensing journals such as the Journal of Hydrometeorology, the International Journal of Remote Sensing, and the Remote Sensing. She has presented her work at various conferences and research centers, including NASA JPL, NASA GSFC, and AGU. She is Co-I of \$5-million NASA grant "Data Intensive Research and Education Center for Science, Technology, Engineering and Mathematics (DIRECT-STEM)".

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Weimin Li, Ph.D., ASLA, currently is Associate Professor of Landscape Architecture at California State Polytechnic University, Pomona. Dr. Li specializes in advanced geospatial technologies e.g., geospatial data integration, geospatial analysis, geoprocessing modeling, high resolution remote sensing imagery processing and 3D landscape construction, and their application in a wide range of landscape design and planning practice. In addition to Geodesign, Dr. Li also researches the environmental and social impacts of contemporary landscape design and planning on different dimensions of sustainability and quality of life in urban settings, including stormwater management, urban green space, wildlife habitat conservation, multimodal transportation, neighborhood safety, public health, environmental justice, and so on.

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Dr. Changqi Liu is an Assistant Professor of Food Science at San Diego State University. His research focuses on the physical, biochemical, and functional properties of food. Dr. Liu is currently exploring the utilization and repurposing of proteins from underutilized (e.g., legumes and cereals) and novel (e.g., edible insects) sources that are low in carbon and water footprint to enhance food security. He and colleagues are funded by a USDA grant to integrate Mesoamerican indigenous farming knowledge and modern urban agriculture methods (e.g., hydroponics and aquaponics) to reduce water, fertilizer, energy, and farmland needs for food production.

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Dr. Sonya Lopez is an Assistant Professor at CSULA within the Civil Engineering Department. Her research areas include developing methods to ascertain the impacts climate variability has on long-term surface and subsurface water, water storage, ecosystems, and water quality using novel modeling techniques and the integration of advanced observation data. This work involves performing modeling studies with the inclusion of local sustainable technologies using both physically-based and conceptually-based hydrologic models. Thus far, she has allocated over 10 million computing hours and over \$6 million in research funding. She has presented at conferences within the United States and internationally.

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Joshua Maher recently joined the Government and Community Relations team at Cal Poly Pomona as Assistant Director. Most recently, Joshua worked at the City of Riverside on policy issues ranging from homelessness to sustainability initiatives for the Office of the Mayor. Prior to that, Joshua worked at UC Riverside developing engagement programs with surrounding communities and school districts.

Tanisha-Jean Martin

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Tanisha-Jean Martin, is a University of San Diego Graduate Student, in the School of Leadership and Education Studies (SOLES). She received her Bachelor's Degree from San Diego State University, triple majoring in: Geography, Sociology, and Political Science. Tanisha's GIS Turf Layer Research and conservation implementation has contributed greatly to water conservation in the City of San Diego, CA. She has introduced her own law into California legislation, in Sacramento, CA. Tanisha wants to further develop legislation that contributes to water resources and policy initiatives that will protect water rights, conservation endeavors, and benefit the environment and communities.

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Alison McNally is and Assistant Professor of Geography at Stanislaus State. Dr. McNally is a physical geographer with an interest in biogeography, climatology, and geospatial technologies. Dr. McNally's research includes climate change and air quality impacts on endangered species, and native dune vegetation in the Sacramento-San Joaquin Delta. Most recently, Dr. McNally's research has focused on groundwater contamination, and water accessibility challenges for disadvantaged communities.

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Nyakundi Michieka joined California State University, Bakersfield in September 2014 as an Assistant Professor of Economics. His primary research involves energy, environmental economics, regional economics, and food security. Dr. Michieka's research can be found in various working papers, book chapters, and peer reviewed publications appearing in Energy Economics Journal, The Energy Policy Journal, Applied Energy, The Journal of Regional Analysis and Policy, and The Journal of Food Distribution and Research. Nyakundi's current work looks at the long- and short-run effects of oil prices on Kern County's economy. Other research areas focus on the energy-water nexus. He also reports on current economic trends in Kern County in CSUB's Kern Economic Journal with Dr. Gearhart. Nyakundi grew up in Kenya where he earned his undergraduate degree in Mechatronic Engineering before coming to the United States. His Ph.D. is in Natural Resource and Environmental Economics from West Virginia University.

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Danny Miranda is currently a graduate student within the Geological Sciences Department at California State Polytechnic University, Pomona. For the past couple years, Miranda has collaborated with Geology professors on a research project involving water resources in a mountain watershed known as Icehouse Canyon. The research study has provided valuable information regarding water supplies and water quality over a long observational period, which will be beneficial for local consumers. As the research project nears completion, the team hopes to publish their research work in order to share it with the general public.

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Dr. Mishra is an Assistant Professor in the Department of Civil and Environmental Engineering at California State University, Fullerton. He teaches and researches water resources, as it relates to engineering. He published numerous articles on these topics.

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Ali Moradi is a first-year faculty at Humboldt State University as an Assistant Professor in the Environmental Resources Engineering Department. Moradi's research interests are centered on fate and transport of contaminants in the environment, heat transfer and mass transfer in soil, and renewable energy storage. Professor Moradi has published six papers in peer-reviewed journals. Furthermore, Professor Moradi has received several awards, including NIH Hot Publication of the Month, National Association of Energy Engineering Award, Golden Colorado Sustainability Award of the Year, Edna Bailey Sussman Foundation Environmental Fellowship, and paper awarded for excellence in energy research.

Zane Mortensen

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Zane Mortensen is currently enrolled in the Applied Marine and Watershed Science graduate program at CSU Monterey Bay. As an undergraduate student, Mortensen was able to participate in research investigating the efficacy of wood chip bioreactor in remediating agricultural pollutants. Through his efforts, Mortensen was able to achieve results that suggest the implementation of woodchip bioreactors would significantly reduce nitrate concentrations found in agricultural effluent, contributing to the mitigation of negative impacts generally associated with the release of this pollutant. As a graduate student he will be continuing his research into the bioremediation of pesticides generally used for crop production.

Shawn Muir

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Shawn Muir, BS, CGWMS, joined Twenty-Nine Palms Tribal EPA in 2010 as an Environmental Scientist. Her background in science and laboratory skills expanded upon the capabilities of the Tribe's in-house analytical laboratory. After executing a superfund research and development project in coordination with UC San Diego, she focused on operating the Tribal environmental programs including water pollution prevention, nonpoint source, groundwater, solid and hazardous waste management, food safety, endangered species, public health, and Brownfields. Mrs. Muir also conducts data analysis and compliance reporting, environmental planning, grant writing, and program development. As the current Environmental Coordinator for the Twenty-Nine Palms Band of Mission Indians, Mrs. Muir coordinates Tribal environmental efforts with multiple federal, state, and regional agencies to protect human and environmental health on the Reservation.

Jim Nguyen

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Jim Nguyen is currently a fourth year Chemical Engineering student at California State University, Long Beach. He was a recent Treatment Plant and Equipment Design intern for the Metropolitan Water District of Southern California. His undergraduate research investigated Endocrine Disrupting Compounds (EDCs) and Constituents of Emerging Concern (CECs) found in wastewater and groundwater. Additionally, he analyzed the effectiveness of using trace organics adsorption through the use of soil reactor columns. He has developed trace organics extraction techniques for over 75 wastewater and groundwater samples. His research has been recognized at the regional, national, and international level at the following: 2017 Metropolitan Water District's Spring Green Expo, 2017 AEESP Research and Education Conference, and the 2017 World EWRI Congress, respectively. Additionally, he was the primary author for a conference proceeding that was featured at the 2017 World Environmental and Water Resources Congress.

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Justine Nguyen is a fourth year Mechanical Engineering student at Cal Poly Pomona. Her research interest is in renewable energy applications, and she has been a part of the Decentralized Renewable Off-grid Wastewater Treatment (DROWT) project team for over a year. She is currently the testing team lead for the DROWT project, overseen by Dr. Reza Baghaei Lakeh, Dr. Ali Sharbat, and Dr. Kevin R. Anderson, which won 2nd place at the Metropolitan Water District College Green Expo. Justine has also contributed as co-author of a review paper on decentralized off-grid brackish water desalination using reverse osmosis, published at IMECE2017.

Thuan Nguyen

Student

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Thuan John Nguyen is a Mechanical Engineering student at Cal Poly Pomona.

Paola Niebla

Student

San Diego State University

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Paola Niebla is a student at San Diego State University, majoring in Public Administration.

Rene Nunez

Student

California State University, Monterey Bay

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Rene Nunez is an undergraduate student researcher at CSU Monterey Bay, working towards a B.S. in Environmental Science Tech Policy. On campus, Nunez is involved in the Bioremediation lab, where he analyzes nitrate levels of the channels, and manipulates the environment to increase efficiency. Nunez's current project involves investigating how a supplemental carbon source would improve the rate of denitrification. In the future, he hopes to attend CSUMB's Applied Marine and Watershed Program and eventually work in a water treatment plant. For now, Nunez is hoping to hone skills to continue this research and work on similar projects.

Alison O'Dowd

Associate Professor and Co-Director of HSU River Institute

Humboldt State University

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Dr. Alison O'Dowd is an Associate Professor and Co-Director of HSU River Institute at Humboldt State University's Department of Environmental Science & Management. Her research interests are within the areas of aquatic ecology and ecological restoration. She specifically studies the impacts of dams on aquatic and riparian communities, stream and wetland restoration, the ecology and eradication of invasive species, impacts of wildfire on stream communities, and the biological significance of step-pool sequences in mountain streams. Dr. O'Dowd's research methods focus on using benthic macroinvertebrates as indicators of water quality in urban and natural freshwater ecosystems. Dr. O'Dowd conducts much of her research through Humboldt State University's River Institute.

Patrick O'Dowd

Board Director

Coachella Valley Water District

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G. Patrick O'Dowd was elected to a four-year term on the Coachella Valley Water District board in 2014. Originally from New Orleans, Louisiana, Patrick earned a Bachelor's Degree in Construction from Louisiana State University, and has an extensive background in business and finance, real estate development, and media. After moving to the Coachella Valley in 1996, he worked locally in real estate development and sales, as well as senior management positions with several operating enterprises including publishing, fitness, and faith-based institutions. Patrick has also served on numerous boards including the Indio Water Authority and the Indio Planning Commission. He leverages his depth of experience to provide strategic advisory services to a broad client base, and is a licensed California real estate agent. Patrick and his wife Kathy O'Dowd, an eighth grade teacher in the Coachella Valley, are residents of Rancho Mirage, and have two college-aged children.

Andrew Oliphant

Professor

San Francisco State University

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Andrew Oliphant is a Professor in the Department of Geography & Environment at San Francisco State University. Andrew's research focuses on surface-atmosphere interactions, particularly exchanges of energy, water, and carbon. This research takes a micrometeorological observational approach to investigating mass and energy fluxes across the surface boundary to resolve biophysical and environmental questions. These include evaluating ecosystem carbon budgets and evapotranspiration controls, as well as surface heat budgets. This focus is applied both to natural ecosystems, recently focusing on mountain meadows of the Sierra Nevada, and to urban surfaces, particularly the role of vegetation in parks, living roofs, and street trees.

Jake Orta

Government and Community Relations Specialist

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Jake Orta is a Government and Community Relations Specialist at California State University, San Bernardino.

John Parada

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John C. Parada has worked with Tribes over the past 20 years in the environmental field, initially as an environmental assistant conducting water quality monitoring, ambient air quality monitoring, solid waste management, emergency planning, field assessments, and environmental outreach and education. John has been managing Tribal Programs for 16 years and has assisted numerous Tribes with increasing capacity in Tribal Environmental Programs. John has also participated in collaborative activities with local, state, and federal agencies to address Tribal environmental concerns. John C. Parada has participated with the Western Regional Air Partnership to address environmental concerns, the Good Neighbor Environmental Board, and in the development of Climate Change policy. John is currently a representative on the Regional Tribal Operations Committee USEPA Region IX .

Binh Phun

Student
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Binh Phun is a third year Mechanical Engineering student at California State Polytechnic University, Pomona. She is a part of the Decentralized Renewable Off-grid Wastewater Treatment, DROWT, project overseen by Dr. Reza Baghaei Lakeh, Dr. Ali Sharbat, and Dr. Kevin R. Anderson.

Brian Pompeii

Lecturer
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Brian Pompeii is a Geographer in the Social Sciences Department at California Polytechnic State University, San Luis Obispo. His areas of research expertise include social vulnerability to hazards, water management, environmental change, sustainability, and political ecology. His current research project explores how drought strained surface water access has led to an increase in groundwater usage for industrial agriculture and subsequently a disaster-level increase in domestic well failure in disadvantaged, unincorporated communities in the San Joaquin Valley of California. Other research projects include working with students in Engineers Without Borders to reduce exposure to water scarcity in rural Southern Malawi, and a collaboration with Cal Poly faculty to assess barriers to advancing sustainability curriculum in higher education.

Anthony Ponce

Student
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Anthony Ponce is a research assistant and tutor for the Economics Department of California State University, Bakersfield. He is an economics major, pursuing a PhD in Economics upon graduation.

Leslie Ponciano

Director of Research Opportunities
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Dr. Leslie Ponciano recently joined the Chancellor's Office as Director of Research Opportunities. In this position, she oversees programmatic and administrative aspects of CSU research, scholarship, and creative activities, including affinity groups and field centers. Dr. Ponciano developed a strong background in academic program administration and assessment as Academic Coordinator for UCLA's Applied Developmental Psychology program and as Director of Loyola Marymount University's Early Childhood Education MA program. At Cal State LA, she served as the Fieldwork Coordinator in the Department of Child/Family Studies and administered a multi-campus grant. More recently, Dr. Ponciano was Director of Research & Educational Partnerships for Age of Learning. Dr. Ponciano received her Master's from Columbia University and her Doctorate from UCLA.

Erik Porse

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Erik Porse is a researcher with interests in water resources, urban sustainability, and environmental management. He is currently a research engineer with Sacramento State's Office of Water Programs, and a Visiting Researcher at UCLA's Institute of the Environment and Sustainability. Erik holds a PhD in Civil Engineering (water resources) and a Master's Degree in Public Policy (science and technology). He has worked and taught throughout the globe, including Europe and Africa.

Matt Rahn

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Director, Environmental Leadership Institute. Professor, Environmental Leadership Academy. Mayor, City of Temecula.

Ashleen Rai

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Randall Reed

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Randall Reed was elected to the Board of Directors, Cucamonga Valley Water District in November 2003. Director Reed currently serves as a member of the Association of California Water Agencies Energy Committee. He also represents CVWD on the Association of San Bernardino County Special Districts Board of Directors, as well as on the WRI Community Advisory Board. Director Reed has worked in the wastewater field for over 30 years. He has a Bachelor of Arts degree in Information Management Systems from California State University, San Bernardino. Director Reed has lived in the region for over 45 years.

Armando Rodriguez

Engineering Manager
Coachella Valley Water District
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Armando Rodriguez is Engineering Manager for the Sanitation and Non-Potable Water Division of the Engineering Department at Coachella Valley Water District (CVWD). He is responsible for the planning, design, construction, and commissioning of capital improvements projects for the collections system and five water reclamation plants that serve CVWD customers throughout the Coachella Valley.

Jacob Rodriguez

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Jacob Rodriguez is an Economics student at CSU Bakersfield, hoping to pursue a degree in Predictive Analytics.

Leah Russell

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Leah Russell is a junior in Earth System Science, specializing in Hydrology and Terrestrial Ecosystems at the University of California, Irvine. Russell is fortunate to be in Dr. Steve Davis' research group, Human Systems, collecting and analyzing data for a meta-analysis on the global Food-Water-Energy Nexus. She's also excited to be a WRPI intern, working at the engineering and environmental firm, CWE. This quarter she is really enjoying her Water Policy class taught by the director of Water UCI, Dr. David Feldman. Her passion is water systems, and she strives for the competency to successfully apply her knowledge and tackle complicated issues.

Donna San Miguel

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Donna San Miguel is Associate Dean at CSU San Marcos, Temecula.

Martha Sanchez

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Martha Sanchez is a junior, majoring in Public Administration at San Diego State University-Imperial Valley. She has the great privilege to be part of the Associated Students Council at SDSU-Imperial Valley, where she is currently the Lead Senator. As a student leader, Sanchez advocates for students' needs and interests.

Jose Santos Cruz

Student
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Jose Michael Santos Cruz is a senior, Veteran, Hispanic 1st-generation college student at CSU San Bernardino. His major is Environmental Studies, with a minor in Geography, and his main interest is in the Hydrology Sciences. Santos Cruz has successfully completed an internship with WRPI assigned as an assistant to Todd Elsworth with the Inyo National Forest division in Bishop, CA. He has an A.S. in Water Technology, and hopes to pursue a career in support of our water resources. Attending this conference is a step in the right direction, not only for its educational aspects, but also for the chance to network with professionals involved in this fascinating field of study.

Tom Scaglione

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Prior to forming ATS Financial Services, LLC, dba Bangkok Financial Services, Mr. Scaglione was the Assistant General Manager and CFO of the Vallecitos Water District in San Diego County. He is a frequent speaker for the Association of California Water Agencies (ACWA) and other professional organizations on various financial-related topics including innovative rate structures, Proposition 218 compliance, economics and politics of water, reserves, and drought rates. Mr. Scaglione currently serves on ACWA's Executive Committee, on ACWA's Board of Directors, as Chair of ACWA's Finance Committee, and as Chair of ACWA JPIA's Audit and Finance Committee. Before beginning his career in the public water utility business in 2000, Mr. Scaglione worked as an auditor, tax consultant, and business consultant with public accounting firms in San Diego County since 1989. His most recent audit and consulting experience was with an emphasis on local government entities. He has been an adjunct professor of accounting since 1994 and is currently teaching Finance and Public Relations for Water Managers in California State University, San Marcos' Water Management and Leadership Certificate Program. Mr. Scaglione received his Bachelor of Science in Business (Accounting) from San Diego State University and earned his Master in Business Administration (Government Leadership) from California State University, San Marcos. Mr. Scaglione is a Certified Public Accountant, licensed in the State of California.

Steve Sentes

Executive Director
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Steve Sentes is the Executive Director of Chino Basin Water Conservation District with over 35 years of experience working in the public service sector. He has spent the past 30 years with the South Florida Water Management District, managing large regional water resource and stormwater projects. Steve is known as an expert facilitator with a unique ability to develop consensus among diverse stakeholders, which at times involves contentious and complex issues. He is a firm believer in the strength of relationships and building new partnerships, while implementing innovative and cutting edge watershed programs. Awards and honors include: 2015 Bravo Award for innovative water solutions involving agriculture; 2015 South Florida Water Management District's Employee of the Month; 2012 Outstanding Service in Large Regional Project Development, Implementation, Construction, and Budget; 2011 Executive Management Fast Track Team Award; 2006 Two BRAVO Awards for Leadership during Tropical Storm Ernesto and the subsequent flooding disaster; 2002 Florida Man of the Year; and many others, including 1989 Outstanding Young Man of America.

Maryam Shafahi

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Maryam Shafahi received her PhD in Mechanical Engineering from University of California, Riverside in 2010. She has been teaching at Cal Poly Pomona since 2011. Her research is on water conservation through more environmentally friendly systems such as aquaponics.

Ali Sharbat

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Ali Sharbat is an Assistant Professor of the Civil Engineering Department at Cal Poly Pomona, which is one of the most impactful civil engineering departments in CA, currently with ~1,300 enrolled students. Professor Sharbat is involved in various projects in the area of drinking water, water desalination, and direct and indirect reuse. His objective is helping engineering students to achieve their maximum potential toward becoming the best of engineers in the area of water and environmental engineering. Professor Sharbat's specialties include: water treatment, wastewater treatment, desalination, membrane processes, environmental remediation, ion-exchange, electrodialysis (ED), and reverse-osmosis (RO).

John Silveus

Instructor
California State University, Monterey Bay
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John Silveus has been an instructor of Biology and Environmental Science at CSUMB since 2013. He is a Faculty Researcher with student research groups, focusing on the water quality of surface waters of Monterey County, and the bioremediation of nutrients and pesticides from agricultural effluent using wood chip bioreactors.

Crissini Sison

Student
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Crissini Sison is currently a fourth year Chemical Engineering student at California State University, Long Beach. Presently, she is conducting research that will investigate soil adsorption of trace organics at different isotherms. UV VIS fluorescence spectroscopy will be the major method of analysis for this project. She currently has knowledge of GC/MS analysis and has helped develop extraction techniques for over 75 wastewater and groundwater samples. Her contribution to a previous project, whose main focus was on the analysis of trace organics adsorption by soil reactor columns, has been recognized at the regional, national, and international levels at the following: 2017 Metropolitan Water District's Spring Green Expo, 2017 AEESP Research and Education Conference, and the 2017 World EWRI Congress, respectively. She has also co-authored a conference proceeding that was featured in the 2017 World Environmental and Water Resources Congress.

Jailene Sotelo

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Jailene Sotelo is a student at Sonoma State University, majoring in Environmental Studies and Planning with a focus on Energy Management.

Leela Stevens

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Leela Stevens is a third year student at California State University, Long Beach, majoring in Civil Engineering. Currently, Stevens is in an undergraduate research program (BUILD) and working in a research lab with Dr. Pitiporn Asvathanagul. She is studying the behavioral of filamentous bacteria in a full-scale nitrifying and de-nitrifying activated sludge process. She hopes by attending this conference she will gain more knowledge in water resources field.

David Still

ARI Executive Director
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David Still is the Executive Director of the California State University Agricultural Research Institute (ARI). The ARI provides funding for applied research projects in agriculture and allied natural resources to improve the sustainability and economic viability of California agriculture. The program provides opportunities for students to participate in faculty-mentored research projects. Dr. Still's own research interests include using genetics to improve plants through plant breeding, physiological genetics, and genomics. Current projects in the Still Lab are focused on improving water and nitrogen use efficiency and improving the nutritional content of lettuce.

Hank Stoy

Chair, WRI Community Advisory Board
Water Resources Institute at CSUSB
909-931-0855

Hank Stoy currently serves as Chair of the Water Resources Institute Community Advisory Board at CSUSB. He earned a BA in Economics from the University of Washington. Following graduation, Mr. Stoy served in the U.S. Air Force. The highlight of his career was his assignment as Executive Officer for legendary General Chuck Yeager, the first man to break the sound barrier. Mr. Stoy is also a veteran of the Vietnam War. He worked 18 years for the L.A. Department of Water and Power, and also served 12 years on the Cucamonga Valley Water District Board of Directors.

Garrett Struckhoff

Assistant Professor
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Dr. Struckhoff is an Assistant Professor in the Department of Civil and Environmental Engineering at CSU Fullerton. His research interests include biofuels, phytoremediation, and greenroofs. He has been published in Environmental Science and Technology, Chemosphere, and International Journal of Phytotechnologies, among others.

Andrew Stubblefield

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Andrew P. Stubblefield is a Professor of Hydrology and Watershed Management at Humboldt State University. He teaches coursework in hydrology and also climate change and land use. He received his PhD in Hydrology at UC Davis, studying at Lake Tahoe. He studied Forest Science at the University of Michigan and Biology at Oberlin College. Andrew conducts research with his graduate students in many areas of hydrology, including stream temperature studies, forest water use, erosion and turbidity, and river restoration. He completed a sabbatical in Nicaragua, studying water quality impacts of the coffee industry. Andrew enjoys biking, zen, backpacking, and home renovation.

Ellen Suryadi

Program Coordinator
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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 developing budgets for proposals and managing budgets for all incoming grants for CIT, WRI, and the Plant Science and Industrial Technology departments, including submissions and ensuring compliance of expenses spent during post-award.

Greg Thomas

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Greg Thomas is the GM for Rincon del Diablo Municipal Water District in the greater Escondido area. Greg's background includes engineering, construction, operations and maintenance, and serving at all levels in the federal, private, and municipal sectors. His District received the "2014 Recycled Water Agency of the Year Medium-sized District" award from WateReuse California. Greg has a B.S. degree in Mechanical Engineering Technology from Purdue University and M.A. degrees in Business and Management from Webster University. He serves on the Advisory board for the Certificate of Water Resources Management and Leadership program at California State University San Marcos, and teaches Leadership in Water Management for the same program.

A.J. van de Ven

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With nearly 15 years of experience within the irrigation industry, A.J. van de Ven strives to develop the next generation of water leaders. He is an instructor and advisory board member for the Certificate in Water Resource Management & Leadership program at CSU San Marcos, which grows students into leadership roles within public water agencies. He also partners with local student organizations and community programs to raise awareness about sustainability. As President of Calsense, A.J. oversees the design and development of water resource management systems for government entities to conserve water, manage labor, and reduce expenses.

Kaomine Vang

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Dr. Kaomine Vang is the Hydraulics Laboratory Manager for the Center for Irrigation Technology (CIT) at California State University, Fresno. He teaches courses in Irrigation Systems Technology and performs water-related research. His research includes the application of Soil Moisture Sensor technology, nitrate management, and monitoring in vegetables. Additionally, Dr. Vang coordinates education seminars and workshops, which focus on new irrigation and water technology.

Amelia Vankeuren

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Dr. Amelia Vankeuren is an Assistant Professor of Geology at Sacramento State with a specialty in groundwater geochemistry. Dr. Vankeuren and her team of students are working to quantify and improve recharge of California groundwater. This includes measuring natural recharge from Sierra Nevada rivers using myriad natural tracers, as well as monitoring water quality during managed aquifer recharge through off-season irrigation of vineyards.

Nate Veale

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Nate Veale recently completed his M.Sc. in Geology at CSU East Bay. Working under Dr. Jean Moran, and partnering with Lawrence Livermore National Lab, he investigated denitrification trends across California, along with the utility of the oxygen isotope of nitrate as a source identification tool. Veale has extensive lab experience on multiple instruments (Mass Spec, Liquid Chromatography, Stable Isotope Analysis) and field experience working with the US Forest Service in Lassen National Forest and the SPRUCE climate change experiment in Minnesota. His primary interests are in isotope hydrology, and combining geochemistry and hydrology to examine new and exciting problems.

Donnell Wilcox

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Donnell Wilcox is a Supervisor for the Sanitation and Non-Potable Water Division of the Engineering Department at Coachella Valley Water District (CVWD). He is responsible for planning, design, construction, and commissioning of capital improvements projects for the collections system and five water reclamation plants that serve CVWD customers throughout the Coachella Valley.

William Wright

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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 1990s, 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.

Taiga Yamaguchi

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Taiga Yamaguchi recently graduated from California State University, Stanislaus with a degree in Biological Science with concentration in Ecology. In his previous research, Taiga worked with USFWS and his mentor Dr. Ritin Bhaduri to study an invasive shrimp species found in the Sacramento-San Joaquin delta. This study was presented and published through the University Honors Program, which he was a member of for his entire college career. Currently, he leads a research team studying the relationship between the fecundity of mole crab and its Acanthocephalan parasite.

Rebecca Zaragoza

Policy Advocate
Leadership Counsel for Justice and Accountability
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As a Policy Advocate with Leadership Counsel for Justice and Accountability based in the Coachella Valley, Rebecca Zaragoza works with the eastern Coachella Valley residents to advocate for sound policy and eradicate injustice. Zaragoza's work is based on community organizing to help influence policy at the state and local levels.

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Park in Lot A (if full, use Lot B)
***Parking permits are required at all times.**
Please display the printable Guest Parking Pass on your dashboard (no cost to you).
If you do not have a guest pass, please see WRPI staff on site for a copy.

- Main Conference Location: Indian Wells Theater
- Parking (Lot A; if full, use Lot B)
- Bus drop off / pick up (near Indian Wells Theater)
- Lunch & Student Posters (Inside HS Building)



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- IWC Indian Wells Center For Educational Excellence
- IWT Indian Wells Theater
- RG Mary Stuart Rogers Gateway Bldg

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WRPI 

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