Program

Tuesday, November 5
7:00 a.m. - 5:30 p.m. Registration

8:00 a.m. - 11:30 a.m. Field Tour

Sponsored by HUESKER Inc.

The Field Tour will include a visit to the Verdi Hydroelectric Power Plant, Donner Lake and Dam, and the Donner Lake State Park Museum. The Museum chronicles the fate of the Donner Party, the building of the Transcontinental railroad over the Sierra Nevada Mountains, and other local History.

12:00 noon - 1:15 p.m. Lunch with Speaker

Sponsored by WEST Consultants, Inc.

Moderator — Brian T. Wahlin, WEST Consultants, Inc., and President, USCID

Watershed Management from the Tribal Perspective
Mervin Wright, Environmental Manager, Pyramid Lake Paiute Tribe, Nixon, NV

1:30 p.m. - 3:00 p.m. Opening Plenary Session

Moderator — Samuel W. Schaefer, Conference Co-Chair and GEI Consultants, Inc., Santa Barbara, CA

Keynote Address
Ernest Conat, Regional Director, Bureau of Reclamation, Sacramento, CA (invited)

Future of Basin Water Management in Nevada
Micheline N. Fairbank, Deputy Administrator, Nevada Division of Water Resources, Carson City, NV

The First International Young Professional Training Program and Workshop on Climate Resilient Smart Irrigation Systems
Pooneh Pahlevani, Water Resources Engineer, WSP, Charlotte, NC

3:00 p.m. - 3:30 p.m. Break

Sponsored by MBK Engineers

3:30 p.m. - 4:30 p.m. Opening Plenary Session
(continued)

The Water Authority’s Perspective in Managing the Humboldt River Basin
Jeff Fontaine, Executive Director, Humboldt River Basin Water Authority, Carson City, NV

A Practical Understanding of Cybersecurity Risk
Christopher G. Ipsen, Desert Research Institute, Reno, NV

4:30 p.m. – 5:00 p.m. USCID Update

Speaker — Brian T. Wahlin

5:00 p.m. - 5:30 p.m. Meet the Exhibitors

5:30 p.m. - 7:30 p.m. Networking Reception, Exhibition and Poster Session

Sponsored by Provost & Pritchard Consulting Group

Shrink Analysis of Telog Measurements in the Walker River Irrigation District
Shasta Banchio, California Polytechnic State University. San Luis Obispo, CA

Irrigation with RO Concentrate and Brackish Groundwater Impacts on Pecan Trees Growth and Physiology
Akram R. Ben Ali, Brian J. Schutte, Manoj K. Shukla and Charlotte Gard, New Mexico State University, Las Cruces, NM

Repurposing of Wastewater for Irrigation
Jake Bruel, California Polytechnic State University. San Luis Obispo, CA

Comparison of Water Hammer Relief Valves
Emma Gray, California Polytechnic State University. San Luis Obispo, CA

Flow Verification Using Current Metering in Walker River ID
Mary Hambly, California Polytechnic State University. San Luis Obispo, CA

Laminar Flow in Irrigation Applications
John Harle, California Polytechnic State University. San Luis Obispo, CA

Groundwater Subsidence in California and Groundwater Hydrology
Sam Morita, California Polytechnic State University. San Luis Obispo, CA

Distribution Uniformity Assessment on Sprinklers in the Salinas Valley
Michaela Sewell, California Polytechnic State University. San Luis Obispo, CA

Variable Frequency Drives for Pump Control
Gracely Speth, California Polytechnic State University. San Luis Obispo, CA

Minor Losses at Pipe Entrances for Turnout Design
Alicia Swanson, California Polytechnic State University. San Luis Obispo, CA

Microirrigation System Maintenance, Plugging, and Filtration in Citrus and Avocado Orchards
Tyler Tsuji, California Polytechnic State University. San Luis Obispo, CA

Utilization of Turbines in Pipelines
Perry Walker, California Polytechnic State University. San Luis Obispo, CA

Power Generation Through Ag Pipeline Turbines
Nick Wilson, California Polytechnic State University. San Luis Obispo, CA
Wednesday, November 6
7:00 a.m. - 5:30 p.m.    Registration
7:00 a.m. - 8:00 a.m.    Continental Breakfast with Exhibits and Posters

Sponsored by Jacobs

8:00 a.m. - 9:30 a.m.    Panel Discussion — Implementing Basin Water Management Plans at the District Level
Moderator — Steve Knell, Oakdale Irrigation District, Oakdale, CA
Panel Members:
Eric Thorburn, Oakdale Irrigation District, Oakdale, CA
Forrest Killingsworth, South San Joaquin Irrigation District, Manteca, CA
Kara Steeland, Truckee Meadows Water Authority, Reno, NV
Micheline Fairbank, Nevada Division of Water Resources, Carson City, NV

9:30 a.m. - 10:30 p.m.    Break with Exhibits and Posters
Sponsored by MBK Engineers

10:30 a.m. - 12:00 noon    Panel Discussion — Economics of Water Pricing and Market Development
Moderator — Steve Knell, Oakdale Irrigation District, Oakdale, CA
Panel Members:
Ellen Hanak, Public Policy Institute of California, San Francisco, CA
Audrey Arnao, WestWater Research, Phoenix, AZ
Jose Gutierrez, Westlands Water District, Fresno, CA
Tina Shields, Imperial Irrigation District, Imperial, CA

12:00 noon - 1:15 p.m.    Lunch with Speaker
Moderator — Brian T. Wahlin
Sponsored by Sense Gateway

Speaker — Rusty D. Jardine, General Manager, Truckee Carson Irrigation District, Fallon, NV

1:30 p.m. - 3:00 p.m.    Concurrent Session A — Technology
Moderators — Sara Harper, Dewberry, Sacramento, CA; and W. Martin Roche, Consulting Engineer, Grass Valley, CA

Designing PI and Ratio Control Routines for Two Main Canal Reaches in the Elephant Butte Irrigation District
Blair Stringam, New Mexico State University, Las Cruces, NM; and Zachary Libbin, Elephant Butte Irrigation District, Las Cruces, NM

Innovations in Water Budget Development
Todd Hillaire, California Department of Water Resources, Red Bluff, CA; Abdul Khan, California Department of Water Resources, Sacramento, CA; Saquib Najmus and Frank Qian, Woodard & Curran, Sacramento, CA; and Paul Shipman, California Department of Water Resources, Sacramento, CA

SCADA Preventative Maintenance: Reducing the Potential of Unexpected Failures
Kyle Feist, Zach Markow, and Charles M. Burt, Irrigation Training and Research Center, California Polytechnic State University, San Luis Obispo, CA

1:30 p.m. - 3:00 p.m.    Concurrent Session B — Environmental Issues
Moderators — Khaled Bali, University of California Extension, Parlier, CA; and Ryan Fulton, Davids Engineering, Inc., Chico, CA

Float Actuated Gate for Slow Dewatering of Remnant Flood Plain and Fish Passage
Daniel J. Howes, Irrigation Training and Research Center, California Polytechnic State University. San Luis Obispo, CA; and John Carlon, River Partners, Chico, CA

CV-SALTS: Salt and Nitrate Control Program for the Central Valley Region of California
Richard Meyerhoff, GEI Consultants, Inc., Denver, CO

Instream Flow Development through Water Conservation Sharing
Lee Baxter, Rich Tullis and Walter Findlay, Central Utah Project Completion Act, Provo, UT

1:30 p.m. - 3:00 p.m.    Concurrent Session C — Water Supply and Water Transfers
Moderators — Aung K. Hla, Bureau of Reclamation, McCook, NE; and Franklin E. Dimick, Dimick Water Resources Engineering, Monroe, UT

Managing Water and Salinity through Drought and Irrigation Modernization at the San Luis Canal Company
Jason Smesrud, Jacobs, Portland, OR; Craig Cooledge, Jacobs, Redding, CA; and Alejandro Paolini and John Wiersma, San Luis Canal Company, Dos Palos, CA

Use of Water Conservation Tools to Reduce Demand and Water Deliveries, Utah Lake Drainage Basin Water Delivery System, Bonneville Unit of the Central Utah Project
Mark A. Breitenbach and Lee Baxter, Central Utah Project Completion Act, Provo, UT

Water in the Southern San Joaquin Valley — Haves and Have Nots
Daniel J. Howes, Irrigation Training and Research Center, California Polytechnic State University. San Luis Obispo, CA
3:00 p.m. - 3:30 p.m.  Break with Exhibits and Posters

Sponsored by MBK Engineers

3:30 p.m. - 5:30 p.m.  Concurrent Session A — Technology (continued)

Analytic Solution for Optimization of Groundwater-Connected Pond Seepage Losses
Brandon House, Roger Burnett and Subhrendu Gangopadhyay, Bureau of Reclamation, Denver, CO

Modeling Evapotranspiration using Multispectral and Thermal Infrared Imagery Acquired with a Low Altitude Unmanned Aerial System
Mitchell S. Maguire, University of Nebraska Lincoln, Lincoln, NE; Christopher M.U. Neale, University of Nebraska Lincoln, and Robert B. Daugherty Water for Food Global Institute, Lincoln, NE; and Wayne E. Woldt, University of Nebraska Lincoln, Lincoln, NE

Does a Partial Root Zone Drying Irrigation Regime Increase Water Use Efficiency in Field-Grown Pecans?
Curt A. Pierce, Richard J. Heerema and Blair L. Stringam, New Mexico State University, Las Cruces, NM

An Approach to Rank and Recommend Potential Grower and District Owned Sites to Expand Recharge within the Poso Creek IRWM Region and Discussion of Sub-Surface Recharge Installation
Samuel W. Schaefer, Oscar Daza and Arjun Bharadwaj, GEI Consultants, Inc. Bakersfield, CA

3:30 p.m. - 5:30 p.m.  Concurrent Session B — Environmental Issues (continued)

Controlling Salt in the Colorado River Basin
Kib Jacobson, Bureau of Reclamation, Salt Lake City, UT

Wildfire Impacts to Water Quality and Watershed Preservation and Restoration
Gerard Yates, Central Utah Water Conservancy District, Orem, UT

Hobble Creek Restoration Projects
W. Russ Findlay, Central Utah Project Completion Act, Provo, UT; Mike Mills, Central Utah Water Conservancy District, Orem, UT; and Melissa Stamp, Utah Reclamation Mitigation and Conservation Commission, Salt Lake City, UT

Northern Nevada Water Supply Operations for M&I
Bill Hauck, Truckee Meadows Water Authority, Reno, NV

3:30 p.m. - 5:30 p.m.  Concurrent Session C — Water Supply and Water Transfers (continued)

Case Study: Modernization of the Walker River Irrigation District
Stuart W. Styles, Irrigation Training and Research Center, California Polytechnic State University. San Luis Obispo, CA; Robert C. Bryan, Walker River Irrigation District; Yerington, NV; and Sierra Layous, Irrigation Training and Research Center, California Polytechnic State University. San Luis Obispo, CA

Water Supply And Demand Management Scenario At Kotri Barrage, Sindh, Pakistan — A Case Study

North Fork Siphon Replacement Project: Design and Construction
Blake Buehler, Central Utah Water Conservancy District, Orem, UT

More Management, Less Technology
Ricardo Aguirre, WEST Consultants, Inc. Tempe

6:30 p.m. - 7:00 p.m.  Reception

7:00 p.m. - 9:30 p.m.  Dinner with Speaker

Moderator — Brian T. Wahlin

Speaker — Edwin James, General Manager, Carson Water Subconservancy District, Carson City, NV
Thursday, November 7

7:00 a.m. - 5:00 p.m  Registration

7:00 a.m. - 8:00 a.m.  Continental Breakfast with Exhibits and Posters

Sponsored by Jacobs

8:00 a.m. - 10:00 a.m.  Flow Control and Management for Small-Medium Canals and Field Turnouts — A Special USCID Workshop

Presenters — Daniel J. Howes and Charles M. Burt, Irrigation Training and Research Center, California Polytechnic State University, San Luis Obispo, CA

This applied Workshop will focus on open channel flow measurement on small-to-medium-sized canals (250-800 cfs) and also discuss field turnouts. Topics will include current options available for flow measurement, important considerations when designing a flow measurement site, and the maintenance and operation of various flow measurement devices and structures. Flow measurement options that will be discussed include rated gates, acoustic Doppler velocity meters in subcritical contractions, Replogle (ramp) flumes (various design), and wiers.

The presenters have developed and implemented innovative designs for each of these options in recent years. In addition, Charles Burt will present the latest research currently being conducted by the Cal Poly Irrigation Training & Research Center on suppressed sluice gate discharge coefficients and control issues with different types of flow measurement.

8:00 a.m. - 10:00 a.m.  Concurrent Session D — Basin Water Management and Conjunctive Use

Moderators — Jason Smesrud, Jacobs, Portland, OR; and David E. Bradshaw, Metropolitan Water District of Southern California, Sacramento, CA

Wasatch County Water Efficiency Project – 20 Years Later
Reed Murray, Central Utah Project Completion Act, Provo, UT; and Devin McKrola, Central Utah Water Conservancy District, Orem, UT

Quantifying Groundwater Resilience Through Conjunctive Use for Irrigated Agriculture and the Groundwater-Surface Water Ratio of Application on a Basin Scale
Erek H. Fuchs, K.C. Caroll and K.P. King, New Mexico State University, Las Cruces, NM

Columbia River Plateau Aquifer System (CRPAS): Groundwater Mining, Models, and Management in a Regional Aquifer System
Kevin Lingsey, GeoEngineers, Inc., Kennewick, WA

Aquifer Unitization: Applying Collective Governance Agreements to Aquifers
Jakob S. Wiley, Schroeder Law Offices, Portland, OR

8:00 a.m. - 10:00 a.m.  Concurrent Session E — Competing Uses and Basin Planning

Moderators — Zachary W. Dickens, Glenn-Colusa Irrigation District, Willows, CA; and Steve Knell, Oakdale Irrigation District, Oakdale, CA

The Urban-Rural Divide: Water in the American West
Laura Schroeder and Katherine Jourdan, Schroeder Law Offices, Portland, OR

Trespass and Encroachment on Water Conveyance Lands
Ben Woolf, Bureau of Reclamation, Provo, UT

Drought Planning for the Middle Rio Grande Conservancy District: Infrastructure Assessment
A. Clemmens, WEST Consultants, Inc., Tempe, AZ; D. Gensler and A. Marken, Middle Rio Grande Conservancy District, Albuquerque, NM; B. Thoreson, Davids Engineering, Inc., Davis, CA; and B.T. Wahlin, WEST Consultants, Inc., Tempe, AZ

Drought Planning for the Middle Rio Grande Conservancy District: Vulnerability Assessment
L.K. Cunha, WEST Consultants, Inc., Folsom, CA; D. Gensler and A. Marken, Middle Rio Grande Conservancy District, Albuquerque, NM; and B.T. Wahlin, WEST Consultants, Inc., Tempe, AZ

10:00 a.m. - 10:30 a.m.  Break with with Exhibits and Posters

Sponsored by GEI Consultants, Inc.

10:30 a.m. - 12:00 noon  Flow Management Workshop (continued)

10:30 a.m. - 12:00 noon  Concurrent Session D — Basin Water Management and Conjunctive Use (continued)

Quantifying Disconnection of Groundwater from Managed Surface Water for Conjunctive Agricultural Use on a Basin Scale
Erek H. Fuchs, K.P. King, and K.C. Caroll, New Mexico State University, Las Cruces, NM

Utah’s Perspective on Water Banking and Federal Reclamation Project Assistance and Barriers to Water Banking Systems
Justin Record, Bureau of Reclamation, Provo, UT; Jonathan Clyde, ClydeSnow & Sessions, Bend, OR; and Emily Lewis, ClydeSnow & Sessions, Salt Lake City, UT

Water Rights Regulation in the Upper Klamath Basin
Rob Annear and James Peale, Geosyntec Consultants, Portland, OR; and Laura Schroeder and Sarah Liljefelt, Schroeder Law Offices, Portland, OR
Concurrent Session E — Competing Uses and Basin Planning (continued)

Management of Independence Lake for Water Supply, Recreation, and the Environment
W. Martin Roche, Consulting Engineer, Grass Valley, CA

New Water Sources, Promises and Problems
John A. Replogle, Agricultural Research Service, USDA, retired, Phoenix, AZ

Yakima Basin Integrated Water Resources Management Plan
Urban Eberhart, Kittitas Reclamation District, Ellensburg, WA

12:00 noon - 1:15 p.m. Lunch with Speaker
Moderator — Brian T. Wahlin
Speaker — Tony Wahl, Bureau of Reclamation, Denver, CO

Sponsored by Summers Engineering, Inc.

1:30 p.m. - 3:00 p.m. Panel Discussion — Conjunctive Management Issues in Nevada’s Humboldt River Basin
Moderator — Therese Ure, Conference Co-Chair and Schroeder Law Offices, Reno, Nevada
Panel Members
Kip Allander, U.S. Geological Survey, Carson City, NV
Jon Benedict, Nevada Division of Water Resources, Carson City, NV
Rosemary Carroll, Desert Research Institute, Reno, Nevada
Adam Sullivan, Nevada Division of Water Resources, Carson City, NV

1:30 p.m. - 3:00 p.m. Concurrent Session F — Western U.S. Water Infrastructure Updates
Moderators — Reed R. Murray, U.S. Department of the Interior, Provo, UT; and Delbert M. Smith, Conference Co-Chair and Bureau of Reclamation, Denver, CO

Lake Powell Pipeline
Rick Baxter, Bureau of Reclamation, Provo, UT

Northern Water and Gross Dam Raise Projects in Colorado
Joe Donnelly, Northern Water, Berthoud, CO

Infrastructure Activities in Arizona
George Cairo, George Cairo Engineering, Inc., Mesa, AZ

Bureau of Reclamation California Water Studies
David Van Rijn, Bureau of Reclamation, Sacramento, CA

Field Tour — Truckee Carson Water Project

This one-day tour will go south of Carson City to see diversions from the Carson River, then hear about open space requirements along the Carson. Following lunch, the tour will go to Lahonton Dam. Next will be the site of the Truckee Canal breach near Fernley, Nevada.

(Updated October 26, 2019)