

# AGWA - AGWT Annual Conference

“Everything aquifers and groundwater management”



Monday, February 11 and Tuesday, February 12, 2019  
Gateway Hotel, 2200 East Holt Boulevard, Ontario, California 91761



See website for field visit opportunity to Regional Recycled Water Program (transportation not provided)

### Background

The first AGWA/AGWT joint conference was held in Ontario, CA in 2000. Since then, this annual event has provided an important information exchange and networking opportunity for California’s water agencies, utilities and water districts, and for all water professionals (scientific, engineering, managerial, legal, environmental, regulatory), end-users of water, and local and state elected officials involved with water policy issues. The focus of every program is on current groundwater management issues in California.

### Continuing Education

AGWA-AGWT Conference Approved for CA Drinking Water Operators - 8 CE hours  
Regional Recycled Water Advancement Purification Center Tour Approved for CA Drinking Water Operators – 2 CE hours

### 2019 Conference Sponsors – sign-up now to join them!



**Regional Recycled Water Advanced Purification Center**

**POST-CONFERENCE TOUR**  
Wednesday, Feb. 13th - Sign-up: [www.agwt.org/events](http://www.agwt.org/events)  
9:30 am -11:30 am  
Joint Water Pollution Control Plant,  
24501 S. Figueroa Street, Carson, 90745

Learn about the Advanced Purification Center. A new demonstration facility that tests an innovative process to purify wastewater for groundwater replenishment. It could lead to a full-scale program that purifies 150 million gpd and replenishes four groundwater basins in Southern California, making it one of the largest of its kind in the world. The program is a partnership of The Metropolitan Water District of Southern California and the Sanitation Districts of Los Angeles County.

For Sponsor and Exhibitor Information, visit our website at [www.agwt.org/events](http://www.agwt.org/events) or call AGWT at 800-423-7748.



Monday February 11, 2019

**7:30 – 8:30**      **REGISTRATION** (Coffee & pastries – network with exhibitors)

**8:30 – 8:40**      **OPENING REMARKS FROM AGWA AND AGWT**  
Anthony Zampietro, Chairman, Association of Ground Water Agencies  
Andrew Stone, Executive Director, American Ground Water Trust

**8:40 – 9:10**      **KICK-OFF PRESENTATION**  
METROPOLITAN WATER DISTRICT: UPDATE ON SOUTHERN CALIFORNIA REGIONAL GROUNDWATER CONDITIONS  
Matthew D. Hacker, Senior Resource Specialist, Metropolitan Water District, Los Angeles, CA

**9:10 – 9:40**      **THE ELUSIVE SUSTAINABILITY OBJECTIVE**  
GROUNDWATER SUSTAINABILITY PLANNING: GROUNDWATER MODELING TO EVALUATE GROUNDWATER/SURFACE WATER INTERACTIONS AND CLIMATE CHANGE IMPACTS  
Abhishek Singh, PhD, PE, Manager - California Operations, Senior Water Resources Engineer, INTERA Inc. Torrance, CA and Bryan Bondy, PG, CHG, Bondy Groundwater Consulting, Inc., (co-author recognition - David Jordan, PE, INTERA Inc.)

**9:40 – 10:10**



**KEYNOTE PRESENTATION**  
**NEW FUNDING FOR STORMWATER CAPTURE**  
Daniel Lafferty, JD, PE, Deputy Director, Water Resources  
LA County Public Works, Los Angeles, CA



*In the November 6, 2018 ballot, LA County Flood Control District voters approved a “parcel tax” of 2.5 cents per square foot of land impermeable to water, such as buildings, driveways, and concrete. Proceeds from the Tax (projected as \$300,000,000 annually) will be used to fund projects including increasing stormwater capture and reducing urban runoff pollution to increase water supply and to improve water quality.*

Dan began working for the Department in 1986. In addition to his current assignment in the Environmental Programs Division, he has worked in the Water Resources, Watershed Management, Waterworks, and Sewer Maintenance Divisions and has served as the Department’s Disaster Services Coordinator. He earned a Bachelor of Science in Civil Engineering degree from Marquette University and a Juris Doctor degree from Loyola Law School. Dan is a registered Professional Engineer in the State of California and a member of the California Bar.

**10:10 10:30 BREAK** (network with exhibitors)

**10:30 – 12:00**      **Session 1**  
**IDENTIFYING, QUANTIFYING AND DEALING WITH CONTAMINANTS OF EMERGING CONCERN (CECs)**  
(Including 1,2,3-TCP, hexavalent chromium, PPCPs, PFAS, perchlorate, 1-4,dioxane, NDMA and others! ) Water agencies are faced with an urgent need to respond to concerns about health issues, property values, remediation options and infrastructure costs related to the identification, measurement and treatment of these compounds.

Moderator: Rick Zimmer, Senior Account Manager, Eurofins Eaton Analytical, LLC, Monrovia, CA

**CECs IN THE LOS ANGELES (CENTRAL/WEST) BASIN**

Brian Partington, PG, CHG, Senior Hydrologist, Water Replenishment District of Southern California, Lakewood, CA

**CECs IN THE ORANGE COUNTY GROUNDWATER BASIN**

Patrick Versluis, Director of Water Quality, Orange County Water District, Fountain Valley, CA

**CECs IN THE SAN GABRIEL BASIN**

Randy Schoellerman, PE, Assistant Executive Director, San Gabriel Basin Water Quality Authority, West Covina, CA

**12:00 – 1:00**      **LUNCH** (provided)



1:00 – 2:20 -

**Session 2**

**PASO ROBLES BASIN - FIRST JURY TRIAL OVER GROUNDWATER RIGHTS IN CALIFORNIA**

A Santa Clara County Superior Court jury found on Sept. 24, 2018 that a group of public water suppliers in San Luis Obispo County had the right to pump groundwater from a large groundwater basin in San Luis Obispo and Monterey Counties. The four-week trial pitted agricultural interests against public water suppliers during a time of extreme water tension due to drought and drought-like conditions in the State. What comes next?

Anthony Brown, CEO & Principal Hydrologist, Aquilogic, Costa Mesa, CA  
Jeffrey V. Dunn, JD, Attorney, Partner, Best Best Krieger Law, Irvine, CA

2:20 – 3:50

**Session 3**

**THE CLOUD & WATER RESOURCES MANAGEMENT**

Moderator: Tony Morgan, PG, CHG, Market Leader – Water Planning & Development, Geo-Logic Associates, Santa Barbara, CA

In the natural hydrologic system, water moves from the meteorological clouds to aquifers. In the modern management of groundwater, the movement of hydrogeological data is from the ground to the cyberspace cloud. Management is the key to groundwater sustainability. Does the “cyberspace cloud” help?

**NEXT GENERATION GROUNDWATER LEVEL INFORMATION SYSTEMS: EXTENDING WELL DATA NETWORKS BEYOND THE WELLFIELD TO INFORM OPERATION AND MANAGEMENT DECISIONS**

Chuck Dunning, PhD, PG, Vice President Business Development, WellIntel, Milwaukee, WI

**HELPING GSAS ACHIEVE SUSTAINABILITY USING FOCUSED GROUNDWATER MANAGEMENT SOFTWARE**

Aaron Collier, PG, Vice President, Collier Consulting, Stephenville, TX

**DEVELOPING A COMPREHENSIVE DATA MANAGEMENT SYSTEM FOR INDIAN WELLS VALLEY - PAINFUL BUT NECESSARY**

Tim Parker, PG, CEG, CHG, President, Parker Groundwater, Sacramento, CA

3:50 – 4:00

**BREAK**

(network with exhibitors)

4:00 – 5:30

**Session 4**

**DOWN-HOLE TECHNOLOGY FOR EFFICIENT GROUNDWATER PUMPING, RECHARGE AND WATER QUALITY CONTROL**

Water engineers, consultants and agency managers can benefit from technology updates about what happens down a well. Water wells are engineered holes in the ground. The equipment that is selected for pumping, recharge and for refining well design can have significant economic impacts on construction and operation costs. Drawing up specifications for wells is best done with an understanding of equipment options and awareness of how advance information of subsurface geochemistry can inform pumping and treatment decisions.

Moderator: Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

**RAPID HIGH RESOLUTION ZONAL AQUIFER GEOCHEMISTRY AND FLOW DOWN TO 3000 FEET**

Noah Heller, President, Best Environmental Subsurface Science and Technologies, San Rafael, CA,

**THE DESIGN AND OPERATION OF DOWNHOLE VALVE EQUIPMENT FOR EFFICIENT OPERATION IN AQUIFER STORAGE RECOVERY WELLS**

Kent Madison, President, 3RValve LLC, Echo, OR

**THE WELL PUMP IS THE HEART OF GROUNDWATER SYSTEMS: HOW TO SELECT THE RIGHT PUMP AND SIMPLE ROUTINE DIAGNOSTICS TO KEEP YOUR PUMP HEALTHY**

David Kill, PE, Training Consultant, Xylem Goulds Water Technology, St. Paul, MN

5:30 – 7:00

**RECEPTION – Sponsored by Raymond Basin Management Board (Cash bar)**  
(network with exhibitors)



**Tuesday February 12, 2019**

**7:30 – 8:30 REGISTRATION (network with exhibitors)**

**8:30 – 10:00 Session 5  
CHALLENGES TO ENSURING SAFE SUSTAINABLE GROUNDWATER SUPPLY IN RURAL AREAS OF CALIFORNIA**

Water Supply responsibilities in California extend beyond providing for the needs of the major irrigation industries and the water agencies with large service populations. The more rural areas of the state also have sustainability and water quality issues. As more people are choosing to live in the foothills and in areas away from major urban centers and the reach of pipelines, there needs to be a closer focus on how groundwater professionals can help maintain affordable and safe water supply for small systems and homeowners.

Moderator to be announced

**PFAS: WIDE-RANGING SOURCES AND IMPACTS TO CALIFORNIA WATER SUPPLIES**

Gregory Schnaar, PhD, Principal Environmental Scientist, Daniel B. Stephens & Associates, Washington, DC

**GROUNDWATER MANAGEMENT IN FRACTURED ROCK AQUIFERS SERVING RURAL NEIGHBORHOODS, VINEYARDS, FARMS AND RANCHES**

Stephen J. Baker, PG, HG, Hydrogeologist, Living Water® programming, Nevada City, CA

**SOLVING WATER SUPPLY CHALLENGES FOR CALIFORNIA'S SMALLER COMMUNITIES**

Dan Demoss, Executive Director, California Rural Water Association, Sacramento, CA.

**10:00 - 10:30**



**INVITED PRESENTATION FROM CALIFORNIA'S  
GROUNDWATER INFORMATION GURU**



**WHERE AND HOW TO GET INFORMATION:**

**CALIFORNIA WATER LIBRARY AND THE GROUNDWATER EXCHANGE**

**Chris Austin, Maven's Notebook, The Groundwater Exchange, California Water Library, Santa Clarita, CA**

Chris is the founder and publisher of the independent Maven's Notebook website, a comprehensive source for California water news and information. She is dedicated to providing unbiased information about California water issues. The water news source reaches thousands of regular readers and water leaders throughout the state. She has earned a reputation among the state's agricultural, environmental and water stakeholders for unbiased, complete, timely and accurate reporting and news curation. Chris has a decade of experience writing and aggregating California water news for multiple websites. In addition to writing original content and aggregating news for Maven's Notebook, Austin also contributes water--related content to Capitol Weekly, Estuary News, KCET SoCal Connected, and Zócalo Public Square.

**10:30 – 10:50 BREAK (network with exhibitors)**

**10:50 – 12:20 Session 6  
WATER AGENCY/WATER DISTRICT: COMMUNICATION, OUTREACH AND EDUCATION INITIATIVES  
WHY THEY ARE NEEDED AND HOW SUCCESS IS MEASURED**

Why do water agencies invest in education programs? What are the benefits from having the customer base understand where their water comes from and how it is delivered? How do agency educators decide on their targets? Is "outreach" different from "education" and is there a dividing line between public relation programs and education? What initiatives are shown to be effective and how can their effectiveness be assessed?

Moderator: Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH

Gina Ayala, Principal Communications Specialist, Orange County Water District, Fountain Valley, CA

Tim Barr, Deputy General Manager, Western Municipal Water District, Riverside, CA

Adrian Hightower, PhD, Education Unit Manager, Metropolitan Water District, Los Angeles, CA

**12:20 – 1:20 LUNCH**

**1:20 – 2:50 Session 7  
GEOPHYSICS AT THE FRESH WATER/SALT WATER INTERFACE OF SOUTHERN CALIFORNIA'S COASTAL AQUIFERS**

Coastal groundwater conditions in Southern California range from freshwater discharge off-shore, uncontrolled salt water intrusion through multilayered and faulted aquifer systems, and relic intrusion plumes trapped behind fresh water barrier well systems. Data from electrical resistivity and time domain electromagnetic induction from airborne geophysical investigations can provide valuable information for characterizing and modeling saline/freshwater dynamics at coastal and inland sites.

Moderator: John Jansen, Senior Geophysicist/Hydrogeologist, Collier Consulting, West Bend, WI

**GROUNDWATER DISCHARGE & SALT WATER INTRUSION ALONG THE SOUTHERN CALIFORNIA COAST**

John Jansen, PhD, PG, PGp, Senior Geophysicist/Hydrogeologist, Collier Consulting, West Bend, WI

**AIRBORNE GEOPHYSICAL INVESTIGATIONS OF SALT WATER INTRUSION ALONG COASTAL CALIFORNIA**

Theodore Asch, PhD, PGp, Research Geophysicist, Aqua Geo Frameworks, LLC, Lakewood, CO

**SALT WATER & FRESH WATER INTERACTION AND AIRBORNE ELECTROMAGNETIC SURVEYING**

Max Halkjaer, Hydrogeologist, Geophysicist, Ramboll Group, København S Denmark

**2:50 – 3:00 BREAK (network with exhibitors)**

**3:00 – 4:30**

**Session 8**

**SGMA FEE ISSUES:**

**HOW TO FUND GSA IMPLEMENTATION, GSP PROJECTS ETC. HOW TO AVOID PROP 218 PITFALLS**

As GSAs push to meet the upcoming GSP deadline, it is critical not to overlook funding practices. How will your GSA employ its fee authority to fund the GSA and GSP? What are other GSAs doing to guarantee funding is available for GSP implementation? This panel dives into the nuts and bolts of fee setting to ensure your GSA secures both sustainable funding and sustainable groundwater management.

Moderator and panelist: Jena Acos

Jena Acos, JD, Attorney, Brownstein Hyatt Farber Schreck, Santa Barbara, CA

Mack Carlson, JD, Attorney, Brownstein Hyatt Farber Schreck, Santa Barbara, CA

Mark Hildebrand, Principal, Hildebrand Consulting, Oakland, CA

**4:30**

**WRAP-UP, Continuing education sign-out and ADJOURN**



**Scroll down for registration information**





# REGISTRATION FORM

AGWA/AGWT ANNUAL GROUNDWATER CONFERENCE

Monday and Tuesday, February 11 & 12, 2019

Complete information below and fax to 603 228-6557 or register on-line at [www.agwt.org/events](http://www.agwt.org/events)

	Two Day	One Day
	Feb 11 <b>AND</b> 12	Feb 11 <b>OR</b> Feb 12
<b>YOU MUST CHECK ONE:→</b>	<input type="checkbox"/>	<input type="checkbox"/> or <input type="checkbox"/>
General Registration	<input type="checkbox"/> \$440	<input type="checkbox"/> \$245
Employees of AGWT/AGWA Members	<input type="checkbox"/> \$415	<input type="checkbox"/> \$220
Full-Time Student* (ID required at Registration)	<input type="checkbox"/> \$120	<input type="checkbox"/> \$80
Download of presentation ppts (Registrant Price)	<input type="checkbox"/> \$30	
Exhibit Table (personal registration also required)	<input type="checkbox"/> \$300	
Field trip (Feb 13) (Conf registration required; transportation not provided)	<input type="checkbox"/> \$50	

\*Registration Includes: access to exhibits, reception, breaks and lunch(s)

Total for all checked boxes \$ .....

To be an event sponsor, call AGWT at 800 423-7748 or visit our website, [www.agwt.org/events](http://www.agwt.org/events), for more information

## SPEAKER REGISTRATION ONLY:

Speakers receive complimentary registration for the day of their presentation

Speaker Presentation Date                      Feb 11                       Feb 12   
 Attending (day not presenting)                      Feb 11  - \$100                      Feb 12  - \$100

### Payment Information:

CHECK [payable to: AGWT]     AMEX/VISA/MC/Discover     PO # \_\_\_\_\_

AMOUNT AUTHORIZED \$ \_\_\_\_\_

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Attendee Email \_\_\_\_\_

Position/Job Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

**REGISTER ONLINE:**  
[agwt.org/events](http://agwt.org/events)

**MAIL TO:**  
 American Ground Water Trust  
 50 Pleasant Street, Suite 2  
 Concord, NH 03301-4073

**FAX:** (603) 228-6557

**TEL:** (603) 228-5444

**? QUESTIONS:**  
 (800) 423-7748  
 9:00-4:00pm (Eastern Time)