

# 2022 Annual AGWT-AGWA CALIFORNIA GROUNDWATER ISSUES CONFERENCE

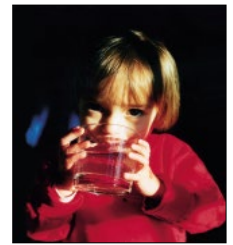
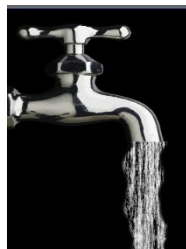


The 23<sup>rd</sup> annual information-exchange program organized by:  
American Ground Water Trust and Association of Ground Water Agencies



**Tuesday, March 29th and Wednesday, March 30<sup>th</sup>**  
**The Centre at Sycamore Plaza, 5000 Clark Avenue, Lakewood, CA 90712**

**“The AGWT always assembles an impressive selection of presentations.”**  
**“Each year this annual AGWT/AGWA program gives background and insight to state water policy issues.”**  
**“If I can only attend one conference focused on California groundwater - this is the one.”**



**WHY YOU SHOULD ATTEND**

This annual event is an information-exchange and networking opportunity for California’s water agencies, utilities and water districts, water professionals (scientific, engineering, managerial, legal, environmental and regulatory), water operators, industrial and irrigation end-users of water, and local and state elected officials who are involved with water supply and water policy issues.

**CONTINUING EDUCATION**

Approved for **CA Drinking Water Operators** – 13.5 Contact Hours (6.75 hours each day)  
 Application to be submitted for CA Lawyers  
 Certificate of attendance available for all attendees upon completion of CE Form.

## Join our 2022 Sponsors:



# 2022 AGWT–AGWA California Groundwater Conference

Tuesday, March 29<sup>th</sup>



7:30 – 8:30 REGISTRATION

8:30 – 8:40 CONFERENCE INTRODUCTION – WATER RESOURCES CHALLENGES

- ◆ Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH
- ◆ Kelly Gardner, Assistant Executive Officer, Main San Gabriel Basin Watermaster and Raymond Basin Water Management Board, Azusa, CA – speaking on behalf of Association of Ground Water Agencies

## **SNOW-PACK, SGMA, WATER MARKETS, WATER BANKING**

8:40 – 9:10

HISTORICAL PERSPECTIVES AND FUTURE PROJECTIONS FOR WATER RESOURCES, CLIMATE, AND EXTREME EVENTS IN SNOW-COVERED REGIONS

- ◆ Laurie Huning, Assistant Professor, Department of Civil Engineering and Construction Engineering Management, California State University, Long Beach, CA

9:10 – 9:40

CHALLENGES AND PROGRESS OF GSAS WITH DEVELOPING SGMA GROUNDWATER SUSTAINABILITY PLANS.

- ◆ Anona Dutton, PG, CHg, Director of Water Resources, EKI Environment and Water, Daly City, CA

9:40 – 10:10

ROLE OF WATER TRANSFERS, TRADING, BANKING, AND MARKETING IN ACHIEVING THE MOJAVE WATER AGENCY MANAGEMENT DISTRICT'S "GLIDEPATH TO SUSTAINABILITY"

- ◆ Allison Febbo, General Manager, and Kathy Cortner, General Manager of Special Projects, Mojave Water Agency, Apple Valley, CA

10:10 – 10:40

THE FIRST SGMA GROUNDWATER MARKET IS TRADING: THE IMPORTANCE OF GOOD DESIGN AND THE RISKS OF GETTING IT WRONG

- ◆ Matthew Fienup, PhD, Executive Director, Center for Economic Research & Forecasting, California Lutheran University, Westlake Village, CA

10:40 – 11:00 BREAK

## **SGMA, WATER MARKETS, WATER BANKING (continued)**

11:00 - 11:30

IRVINE RANCH WATER DISTRICT'S WATER BANKING PROGRAM: WATER RELIABILITY, SUSTAINABILITY AND ENVIRONMENTAL BENEFITS

- ◆ Natalie Palacio, Water Resources Specialist, Irvine Ranch Water District, Irvine, CA

11:30 – 12:00

PROGRESS WITH SGMA SINCE 2014 AND FUTURE AGRICULTURAL SECTOR CHALLENGES FOR THE ACT'S EVENTUAL IMPLEMENTATION

- ◆ Paige Gilligan, CAC, President, Risk Mitigators & Advisors LLC, Clovis, CA

## **ENDANGERED SPECIES ACT IMPACTS ON SGMA COMPLIANCE**

12:00 - 12:30

THE NEW ENDANGERED SPECIES "PROTECTION" REQUIREMENTS FOR STEELHEAD WILL IMPACT WATER MANAGERS' OPTIONS AND GROUNDWATER SUSTAINABILITY PLANS

The New State Endangered Species listing will affect operations from Santa Maria in the central coast, to Tijuana

- ◆ Mary Lynn Coffee, JD, Partner, Nossaman LLP, Irvine, CA
- ◆ Lori Anne Dolquiest, JD, Partner, Nossaman LLP, San Francisco, CA

12:30 – 1:30 LUNCH

**COLORADO RIVER WATER FOR CALIFORNIA**

1:30 – 2:00

WHAT ARE THE PROSPECTS FOR FUTURE COLORADO RIVER WATER DELIVERIES TO CALIFORNIA?

◆ Deven Upadhyay, Chief Operating Officer and Assistant General Manager, Metropolitan Water District of Southern California, Los Angeles, CA (invited)

**DRINKING WATER WELLS, AQUIFER RECHARGE SYSTEMS, STORM WATER SOURCES**

2:00 – 2:30

GROUNDWATER MANAGEMENT PRINCIPLES & STRATEGIES TO MONITOR, ANALYZE & MINIMIZE IMPACTS TO DRINKING WATER WELLS: A Framework for State Action to Support Drought Resilient Communities

◆ Paul Gosselin, Deputy Director of Statewide Groundwater Management, California Department of Water Resources, Sacramento, CA

2:30 – 3:00

USE OF EXISTING WELLS FOR AQUIFER STORAGE AND RECOVERY PROGRAMS

◆ Tara Rolfe, PG, CHG, Senior Hydrogeologist, Geosyntec Consultants, Inc., Pasadena, CA

3:00 – 3:15 BREAK

**DRINKING WATER WELLS, AQUIFER RECHARGE SYSTEMS, STORM WATER SOURCES (continued)**

3:15 – 3:45

WELL DESIGN CONSIDERATIONS FOR ASR WELLS – LOOKING BEYOND THE CONVENTIONAL GUIDELINES

◆ Kevin McGillicuddy, PG, Chief Hydrogeologist, Roscoe Moss Company, Los Angeles, CA

3:45 – 4:15

STORM WATER CAPTURE AND RECHARGE PROJECT IN THE YUCAIPA BASIN

◆ Heather Dyer, District General Manager and CEO, San Bernardino Valley Municipal Water District, San Bernardino, CA

4:15 – 4:45

ASSESSING RECHARGE POTENTIAL IN ALLUVIAL RIVER VALLEYS IN SOUTHERN CALIFORNIA

◆ Mike Blazevic, PG, CHG, Hydrogeologist, San Margarita Water District, Rancho Santa Margarita, CA

4:45 – 6:00 RECEPTION



Wednesday, March 30th

7:30 – 8:30 REGISTRATION

**AQUIFER RECHARGE SYSTEMS, STORM WATER SOURCES (continued)**

8:30 – 9:05

SUCCESSFUL STORM WATER CAPTURE/DIVERSION STRATEGIES THAT PROVIDE A WATER SOURCE FOR AQUIFER RECHARGE

◆ Ed Othmer, PE, VP, Sector Leader, Stormwater & Wet Weather Flow, Stantec Consulting Corporation, San Diego, CA



## **PFAS ISSUES, TREATMENT, COSTS AND CLEAN-UP DECISIONS**

9:05 – 9:40

ECONOMICS OF PFAS TREATMENT, CASE HISTORIES IN CALIFORNIA

◆ Cathy Swanson, Groundwater Remediation Specialist, Purolite Corporation, Fullerton, CA

9:40 – 10:15

IMPLICATIONS, RISKS AND LIABILITIES THAT COULD RESULT FROM THE EPA BROADENING AND ACCELERATING THE CLEANUP OF PFAS CONTAMINATION OF DRINKING WATER SOURCES

◆ Greg Berlin, JD, Attorney, Senior Associate, Alston & Bird, Los Angeles, CA

10:15 – 10:30 BREAK

## **PFAS ISSUES, TREATMENT, COSTS AND CLEAN-UP DECISIONS (continued)**

10:30 – 11:05

USACE PFAS EFFLUENT TREATMENT SYSTEM (PETS)

◆ Edith Martinez-Guerra, PhD, PE, Research Environmental Engineer, US Army Corps of Engineers-Engineer Research & Development Center, Vicksburg, MS

11:05 – 11:40

ARE PFAS A BIGGER ISSUE THAN OTHER EMERGING CONTAMINANTS – IMPLICATIONS FOR WATER UTILITIES?

◆ Anthony Brown, CEO & Principal Hydrologist Aquilogic, Costa Mesa, CA

## **SEQUESTRATION OF CO2**

11:40 – 12:15

PLANNED GEOLOGIC SEQUESTRATION OF CO2 AT THE SAN JOAQUIN RENEWABLES PROJECT AND CLASS VI APPLICATION PROCESS - MCFARLAND, CA

◆ Gregory Schnaar, PhD, PG, Environmental Scientist, Hydrologist, Daniel B. Stephens & Associates, Silver Spring, MD

12:15 – 1:15 LUNCH

## **APPLICATION OF GROUNDWATER MODELS**

1:15 – 1:45

EFFECTS OF DROUGHT ON GROUNDWATER RECHARGE

◆ Hoori Ajami, PhD, Associate Professor, Department of Environmental Sciences, University of California, Riverside, CA

1:45 – 2:15

USE OF A USGS SEQUENCE STRATIGRAPHY MODEL FOR THE WEST COAST BASIN BRACKISH WATER RECLAMATION PROJECT

◆ Raghu Suribhatla, PhD, PE, Technical Services Manager – California, INTERA Inc., Torrance, CA

2:15 – 2:45

CLIMATE-CHANGE DRIVEN COASTAL GROUNDWATER HAZARDS IN CALIFORNIA

◆ Daniel Hoover, PhD, Oceanographer, USGS Pacific Coastal and Marine Science Center, Santa Cruz, CA

2:45 – 3:15

USE OF BARRIERS TO HELP CONTROL SALTWATER INTRUSION INTO FRESHWATER AQUIFERS

◆ Roy Herndon, PG, CHG, Chief Hydrogeologist, Orange County Water District, Fountain Valley, CA

3:15 – 3:45

GROUND WATER MODELING FOR THE REST OF US: DEVELOPING AND USING GROUNDWATER MODELS AS OPERATIONAL TOOLS

◆ Christofer S. Coppinger, PG, CHG, Senior Geohydrologist, Geoscience Support Services, Claremont, CA, and

◆ David Barnes, Senior Modeler, Geoscience Support Services, Tucson, AZ

3:45 – 4:00 CONFERENCE WRAP-UP

◆ Kelly Gardner, Assistant Executive Officer, Main San Gabriel Basin Watermaster and Raymond Basin Water Management Board, Azusa, CA – speaking on behalf of Association of Ground Water Agencies

4:00 ADJOURN