

This draft is no longer being updated; the final digital conference program can be viewed at the link below:

https://www.watereducation.org/sites/main/files/file-attachments/program_-_international_groundwater_conference.pdf?1718140432

Monday, June 17

Pre-Conference Workshops

These optional workshops will serve as a platform for sharing experiences, tools, and insights from around the world and engaging in constructive discussions on each topic. Workshops are free for conference attendees, but you must register for them separately.

PLEASE NOTE: THE ALL-DAY WORKSHOP RUNS CONCURRENTLY WITH THE HALF-DAY WORKSHOPS, SO YOU CANNOT REGISTER FOR ALL 3!

All-Day Session (9:00-12:00 & 1:30-3:00)

Implementing Groundwater Demand Management in Agricultural Regions

led by Dr. Isaya Kisekka, University of California Davis

Morning Session (9:00-12:00)

Regulating, Monitoring and Managing Groundwater Nitrate and Salinity

led by Ken Miller, Formation Environmental USA

Afternoon Session (1:30-4:30)

Tools and Strategies to Engage Stakeholders in Groundwater Management and Planning

led by Dr. Jean-Daniel Rinaudo, BRGM France

Registration Check-in / Badge Pickup 3:00-6:00

Tuesday, June 18

Tuesday 8:15 - 8:30 AM

Welcome

Thomas Harter, University of California at Davis
Nick Gray, Water Education Foundation

Opening Remarks

Nancy Vogel, California Deputy Secretary for Water

Tuesday 8:30 - 10:00 AM

1 PLENARY SESSION: SUCCESS STORIES - Moderator Lisa Porta

Conjunctive use of groundwater in the Gila River Indian Community

Governor Stephen Roe Lewis, Gila River Indian Community

SGMA Success: The MAGSA Approach to Sustainability - The 'Half-Full' Glass

Matthew Hurley, McMullin Area GSA

Nitrate response in Danish groundwater to agricultural N management and regulation since 1940

Birgitte Hansen, Geological Survey of Denmark and Greenland - GEUS

Cultivating Change: A 4th Generation Kansas Farmer's Quest for Sustainability

Dwane Roth, Big D Farms Inc./Front Porch Farms

Tuesday 10:30 AM - 12 Noon

2A	2B	2C	2D
Groundwater Dependent Ecosystems and Groundwater-Surface Water Interaction Chair: Maurice Hall A watershed-specific formula to predict coho salmon reproduction using river flow metrics Claire Kouba, UC Davis Sustainable groundwater management in the Murray Darling Basin, Australia Andrew Ross, Fenner School of Environment and Society, Australian National University Climate Adaptation and Interconnected Surface Water and Groundwater Stewardship in the Napa Valley Vicki Kretsinger Grabert, Luhdorff & Scalmanini Consulting Engineers Balancing Groundwater for Agriculture and Lakes in Wisconsin, USA Michael Fienn, USGS Upper Midwest WSC Balancing Agriculture, Salmon, and Climate Change: Water Management in Scott Valley, California	Best Practices for Groundwater Supply Chair: Amal Talbi Combined, applied research & engagement frameworks to advance irrigation management Amy Kremen, Irrigation Innovation Consortium/Colorado State University Almond Irrigation Improvement Continuum: A Model Grower Outreach Program Michael Roots, Almond Board of California Management of Ground Water Resources for sustainable agriculture in the Nadhour Aquifer / Tunisia Manfred Matz, GIZ-Tunisie Benefits from a Century of Groundwater Stewardship in Southern California Betsy Miller, San Bernardino Valley Water Conservation District Sustainable Agriculture in the SGMA Era	Environmental Justice Chair: Alvar Closas SGMA and Underrepresented Farmers - Impact of Groundwater Sustainability Plans on Small Farmers Ngodoo Atume, University of California, Agricultural and Natural Resources Inequities in PFAS-Contaminated Pesticides Applied near Public Supply Wells in California, 2019-2021 Clare Pace, University of California, Berkeley Quantifying Water Requirements for Small-Scale Diversified Farms in the San Joaquin Valley Sara Qaderi, UCANR Community-Engaged Research on Groundwater Nitrates: Perspectives from Rural Eastern Oregon Anne Theba, University of Washington Climate Impacts Group; Kaleb Lay, Oregon Rural Action Distributional implications of nitrate contamination in drinking water	Advancing Sustainable Water Management through FloodMAR Chair: Francisco Flores-López Insights from the Merced Flood-MAR Reconnaissance Study (Moderator) Francisco Flores-López, CA Department of Water Resources Development of a Headwater-to-Groundwater Integrated Modeling Toolset David Arrate, CA Department of Water Resources Assessing Climate Vulnerability Wyatt Arnold, CA Department of Water Resources Enhancing Climate Resilience through Adaptive FloodMAR Strategies Karandeep Singh, CA Department of Water Resources Setting a Template for Multi-Sector Coordination

LUNCH 12:00 - 1:30

LUNCH SPEAKER: [MARK ARAX](#)

Tuesday 1:30 - 3:00 PM

3A Groundwater Quality Impacts from Agriculture Roundtable

Moderator: Thomas Harter

Water use for irrigation changes quality of groundwater used for drinking water supply in California
Miranda Fram, U.S. Geological Survey

A Framework for Understanding & Addressing Surplus Manure Nitrogen on Dairies in the Central Valley
Till Angermann, Luhdorff and Scalmanini Consulting Engineers

USGS Monitoring of Groundwater/Surface-Water Interaction and Nutrients in the Illinois River Basin
David Lampe, U.S. Geological Survey

Prioritizing Drainage Basins for Nutrient Studies: Importance of Spatial Variability
Christopher Green, US Geological Survey

3B Groundwater Governance Roundtable

Moderator: Ellen Hanak

Under pressure – the case of groundwater management in the Great Artesian Basin in NSW, Australia
Alvar Closas, Independent Consultant

Groundwater governance and the outlook for agriculture: A case study of Arizona
Sharon Megdal, The University of Arizona

Groundwater Governance Elements: Knowledge, Motivation, and Mechanisms
Ruth Meinzen-Dick, International Food Policy Research Institute

Assessment impact of intensification agricultural on groundwater resources in the Aquifer Massacre
Jeff Garcon, University Qisqueya

Agent-based modelling and decision-support for groundwater compliance and enforcement: BEACON
Cameron Halley, UNSW

3C Groundwater Management: Data and Modeling Roundtable

Moderator: Andrea Brookfield

Updates to Central Valley Hydrologic Model – a regional tool for Sustainable Groundwater Management
Claudia Faunt, USGS/CAWSC

Evaluating Hydrologic Responses to Agricultural Water Management in the Lower Arkansas River Basin
Salam Abbas, Colorado State University

The Pendulum Swings: California's Attempts to Find a Balance Between Fish/Feathers and Farms/Folks
Jeffrey Davids, Davids Engineering | California State University, Chico

Exploring Dynamics of Aquifers using Remote Sensing and Integrated Hydrologic Models
David Hyndman, University of Texas at Dallas

3D AgMAR: Engaging Private Landowners Roundtable

Moderator: Daniel Mountjoy

(Moderator) Agricultural Managed Aquifer Recharge-AgMAR: Engaging private landowners in replenishing groundwater
Daniel Mountjoy, Sustainable Conservation

Directing Recharge to Achieve Groundwater Sustainability Outcomes: Integrated Modelling Tools for Flood-MAR Planning
All Toghiani, Woodard & Curran

Planning, managing and implementing AgMAR/FloodMAR as a water district
Wes Miller, Turlock Irrigation District

Doing the good deed: My AgMAR experience
Christine Gemperle, Grower

Preparing the grower (and everyone else) for AgMAR
Sarah Woolf, Grower, Waterwise Consulting

Tuesday 3:30-5:00 PM

4A Best Practices to Improve Groundwater Quality
Chair: Nandita Basu

Approaches to Groundwater Quality Management for Sustainable Rice Farming in California's Sacramento
Lisa Porta, Montgomery & Associates

Improving leaching estimates from orchards by accounting for tree size and soil spatial variability
Shahar Baram, Agricultural Research Organization (ARO), Neve Ya'ar Research Center

Using drainageways for subsurface nitrate processing in agricultural landscapes
Keith Schilling, University of Iowa

Collaborative engagement and involvement of private water well owners in BMP development
Hugh Simpson, University of Guelph

Impact of Cover Cropping on Nitrate Leaching from Potato Rotations
Yefang Jiang, Agriculture and Agri-food Canada

4B Climate Change Adaptation

Chair: Ken Belitz

Assessment of Groundwater Droughts in the Colorado River Basin: Identifying Key Controlling Factors
Karem Abdelmohsen, Arizona State University

Flash Drought - A Growing Risk to Agriculture and Water Resources from Local to Global
Jeffrey Basara, University of Massachusetts Lowell

Sustainable Groundwater in Agriculture under a Changing Climate in Southwestern US
Isaya Kisekka, UC Davis

Distributed sensing for monitoring greenhouse gases from agricultural land under climate change
Tissa Illangasekare, Colorado School of Mines and Lawrence Berkeley National Laboratory

4C Groundwater Management: Data and Modeling
Chair: Newsha Ajami

Quantifying Groundwater Recharge in Mountain-Valley Aquifer System of the Kaweah River Watershed
Hoari Ajami, University of California Riverside

Data-Driven, Field-Level Remotely Sensed ET in Critically Overdrafted Basins: 2022 & 2023 results
Joel Kimmelshue, Land IQ

A re-examination of the hydrological impact of tile drainage using integrated modelling tools
Jiangyue Ju, University of Waterloo

Aquifer Parameter Estimation: Async/Distributed Bio-inspired Algorithms with Convolutional Layers
Kiara Tesen Arambulo, Pontificia Universidad Católica de Chile

4D Managed Aquifer Recharge

Chair: Helen Dahlke

Evaluation of an Agricultural Recharge Site by Mapping Sediment Type with an Electromagnetic System
Meredith Goebel, Stanford University

Stormwater storage to support sustainable irrigation
Leo Augustin, Technical University of Munich

How to have your cake and eat it too: a case study of recharging with Reverse Tile Drains
Mike Busby, LIDCO Inc

Automated Cloud Based Groundwater Basin Storage Tracking for Managed Aquifer Recharge Accounting
Mark Kram, Groundswell Technologies, LLC

Riverbank filtration, groundwater transfer and injection in an intensively cultivated alluvial basin
Andy O'Reilly, USDA-ARS

Tuesday 5:30 - 7:30 PM - Hosted Reception and Poster Session 1

Advancing the Groundwater Accounting Platform in California
Hannah Ake, California Water Data Consortium

Aquifer Recharge & Flow Dynamics: HYDRUS-1D & 3D Model Insights
Alberto Casillas-Trasvina, UC Davis

Groundwater sustainability in Massacre agricultural plain through hydrogeochemical characterization
Jeff Garcon, University Qisqueya

Estimation of Model Uncertainty in View of the Groundwater Sustainability Indicators
Giorgios Kourakos, UC Davis

Sustainable groundwater management across the urban-agricultural interface, Santa Clara County, CA
Jason Gurdak, Santa Clara Valley Water District

Assessing social learning from a participatory groundwater planning process (Adour, France)
Jean-Daniel Rinaudo, BRGM

Can Satellite Time Series Data Discern Spatial Patterns in Dry Matter Yield in 'Jose' Tall
Mauricio Soriano, CSU Fresno

Wednesday, June 19

Wednesday 8:30 - 10:00 AM

5 PLENARY SESSION: NORTH AMERICAN PERSPECTIVES - Moderator David Rudolph

Groundwater Depletion in Agricultural Supply Chains and Exports of the United States
Megan Konar, University of Illinois at Urbana-Champaign

National Groundwater Quality in the Ag Space
Ken Belitz, U.S. Geological Survey

Agricultural-related trends in groundwater quality of the United National Groundwater Quality in the Ag Space
Bruce Lindsey, U.S. Geological Survey

Managing Nitrogen and its Legacy in the US
Nandita Basu, University of Waterloo

Groundwater Perspectives from the Agricultural Investment and Banking Sector
Carl Evers, AGIS

Wednesday 10:30 AM - 12 Noon

6A Nitrate Monitoring and Modeling**6B SESSION CLOSED****6C Groundwater Management: Data and Modeling****6D Innovating Managed Aquifer Recharge**

<p>Chair: Christopher Green</p> <p>Estimating the self-cleansing rate of local groundwater nitrate stock in a heterogeneous aquifer <i>Baibawata Bhaduri, Indian Institute of Science</i></p> <p>Occurrence, sources and fate of nitrate in agricultural regions of southern Alberta, Canada <i>Cynthia McClain, Alberta Biodiversity Monitoring Institute</i></p> <p>Quantifying Germany-wide nitrogen fluxes for implementing water management policies <i>Tim Wolters, Forschungszentrum Jülich</i></p> <p>Ambient Groundwater Monitoring Network: the Cornerstone to Reducing Nitrate in Drinking Water Wells <i>Melanie Redding, Washington State Department of Ecology</i></p> <p>Data-driven approaches demonstrate legacy N accumulation in Upper Mississippi River Basin groundwater <i>Kim VanMeter, Pennsylvania State University</i></p>	<p>Chair: Giorgios Kourakos</p> <p>Groundwater Overexploitation in the North China Plain: A Path to Sustainability <i>Wolfgang Kinzelbach, ETH Zuerich, Emeritus</i></p> <p>MODFLOW-IDC (MF-IDC) – A new tool for linking science and policy for water resources management <i>Reza Namvar, Woodard & Curran</i></p> <p>A watershed modeling approach to quantify agricultural groundwater pumping at the national scale <i>Ryan Bailey, Colorado State University</i></p> <p>Assessment of Agricultural Groundwater Extraction Through Combined Application of Time Series Analysis <i>Hwa-Lung Yu, National Taiwan University</i></p>	<p>Chair: Yoshihide Wada</p> <p>Helping Farmers Recharge Groundwater: Findings from the NRCS On-Farm Recharge Pilot Program <i>Aysha Massell, Sustainable Conservation</i></p> <p>Water banking to increase water security and resilience to drought <i>Andrew Ross, Australian National University</i></p> <p>Navigating Water Rights To Implement On-Farm Recharge in Alexander Valley OFR Initiative <i>Philip Bachand, Bachand & Associates</i></p> <p>Subsurface Groundwater Recharge: Reverse Tile Drains <i>Bryan Thoreson, GEI Consultants</i></p>
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NETWORKING LUNCH 12:00 - 1:30

Wednesday 1:30 - 3:00 PM			
<p>7A Nitrate Policy Roundtable</p> <p>Moderator: Lisa Porta</p> <p>Management Zone Implementation of California's Central Valley Nitrate Control Program <i>Barbara Dalgish, Luhdorff & Scalmanini Consulting Engineers</i></p> <p>Policy Approaches in Managing Groundwater Nitrates: Implications for Oregon's Lower Umatilla Basin <i>Zach Kearl, UW Climate Impacts Group</i></p> <p>Application of a Nitrate Decision Support Tool for groundwater wells in Wisconsin, USA <i>Christopher Green, USGS</i></p> <p>Future of Salt Management in the California Central Valley: Prioritization and Optimization Study <i>Christian Petersen, GEI Consultants</i></p> <p>Comparison of Agricultural Non-Point Source Pollution in China and the US: A Tale of Two River Basins <i>You-Kuan Zhang, Southern University of Science and Technology</i></p>	<p>7B Hydrogeology Academic Capacity Crisis Interactive Session</p> <p>Facilitator: Ty Ferre</p> <p><i>You need technical staff. Let's find answers.</i></p> <p>In this highly interactive 1.5 hour session, we will explain the reasons that it has become so difficult to find enough qualified entry level hydrogeologists.</p> <p>Then we will work together to chart a course to solutions. Results of the discussions will be compiled and shared as part of a campaign to bring the entire hydrogeologic community together to address the acute and growing technical personnel shortage.</p>	<p>7C Groundwater Management and Policy Roundtable</p> <p>Moderator: Karen Villholth</p> <p>The End of Cheap Groundwater? Global Impacts of Aquifer Depletion on Agriculture and Livelihoods <i>Sophie Erfurth, Morwick G360 Groundwater Institute</i></p> <p>Groundwater Monitoring in Uzbekistan and Measures for Groundwater Protection <i>Nosirali Kurbanov, State Enterprise "Uzbekhydrogeology"</i></p> <p>Building Groundwater Governance: Filling the Gap in the Global Water-Food Solution Set <i>Maurice Hall, Environmental Defense Fund</i></p> <p>Vulnerability to changing land-use, water, and climate in agricultural landscapes: policy trade-offs <i>Nathan Van Schmidt, SFBBO</i></p>	<p>7D AgMAR and Water Quality Roundtable</p> <p>Moderator: Andy O'Reilly</p> <p>Proposed water quality and hydrology management goals and approaches for the Aquaterra Water Bank <i>Philip Bachand, Bachand & Associates</i></p> <p>The impact of agricultural managed aquifer recharge on the fate of pesticides in the vadose zone <i>Helen Dahlke, University of California, Davis</i></p> <p>Using cover crops to reduce nitrate leaching during on-farm recharge in diversified farming systems <i>Jessica Kanter, UC Cooperative Extension</i></p> <p>Behavior of arsenic and uranium in the vadose zone during managed aquifer recharge <i>Kira Waldman, University of California Davis</i></p>

Wednesday 3:30 - 5:00 PM			
<p>8A Managing and Regulating Groundwater Quality</p> <p>Chair: Vicky Kretsinger Grabert</p> <p>Nitrogen legacies in groundwater – a persistent challenge in agricultural landscapes in Europe <i>Pia Ebeling, Helmholtz Centre for Environmental Research GmbH - UFZ</i></p> <p>New Framework for Nitrate Control in California's Central Valley Region Groundwater <i>Parry Klassen, Valley Water Collaborative, Executive Director</i></p> <p>Addressing groundwater nitrate and salinity concerns in California's Central Valley <i>Ken Miller, Formation Environmental</i></p> <p>Managing pressures from agriculture on water quality: 30 years of monitoring in the Netherlands <i>Simon Bujs, RIVM - Dutch National Institute for Public Health and the Environment</i></p>	<p>8B Groundwater Demand Management to Achieve Sustainability</p> <p>Chair: David Hyndman</p> <p>Innovative Approaches and Incentives for Cost-Effective Demand Management in the Napa Valley <i>Duncan MacEwan, ERA Economics</i></p> <p>Honoring Traditional Pathways to Advancing Agricultural Resource Management <i>Kathy Boomer, Foundation for Food & Agriculture</i></p> <p>The impact of supply and demand management on groundwater overdraft for California's Central Coast <i>Ruth Langridge, University of California, Santa Cruz</i></p> <p>Developing Agricultural Groundwater Allocations for Better Water Management <i>Stephanie Anagnoson, Madera County</i></p>	<p>8C Groundwater Management under Climate Change: Data and Modeling</p> <p>Chair: Wolfgang Kinzelbach</p> <p>Enhancing Coastal Aquifer Groundwater Model Accuracy via Climate-Responsive Boundary Conditions <i>Shubham Tiwari, IRPI CNR Italy</i></p> <p>Evaluating the impacts of drought and human activities on Groundwater Dynamics for the 1952-2021 <i>Adiam Weidemann, New Mexico State University</i></p> <p>Growing Season Trends in the CONUS and Relation to Changes in Irrigation Water Use from 1985-2015 <i>P. Ruess, George Mason University</i></p> <p>Lower Rio Grande Land Management Practices for Uncultivated Agricultural Fields under water scarcity <i>Manoj Shukla, New Mexico State University</i></p>	<p>8D Global Perspectives on Groundwater Management</p> <p>Chair: Tim Parker</p> <p>Centrality of Groundwater for resilient and sustainable agriculture in South Asia <i>Alok Sikka, International Water Management</i></p> <p>Forestry groundwater extraction in South Australia: Methodological recharge uncertainty <i>Okke Batelaan, National Centre for Groundwater Research and Training, Flinders University</i></p> <p>Water Regulation and Compliance Archetypes: Insights from Australia <i>Darren Sinclair, University of Canberra</i></p> <p>A Systematic Review on Global Managed Aquifer Recharge: Techniques, Impacts, and Future Implications <i>Berhanu Sinshaw, University of California Merced</i></p>

Wednesday 5:30 - 7:30 PM - Hosted Reception and Poster Session 2

<p>Remote Sensing to Manage Crop Water Use and Needs <i>Erica Edwards, UC Davis</i></p> <p>Analysis of Hydrological Modeling in the Lower Rio Grande using SWAT <i>Darby Kellum, NMSU</i></p>	<p>Assessing the Influence of Sunflower Farming on Nitrate Leaching into Groundwater <i>Felix Ogunmakin, UC Davis</i></p> <p>enhancing the accuracy of SEBAL-based evapotranspiration through optimization and data assimilation <i>Ali K. Ghorbanpour, UC Davis</i></p> <p>Strategic Multi-benefit Land Repurposing for Groundwater Sustainability in the Turlock Subbasin <i>Alyssa DeVincentis, Formation Environmental</i></p>
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<p>Increasing Managed Aquifer Recharge through Forecast-Informed Reservoir Operations <i>Bryan Thoreson, GEI Consultants</i></p> <p>Towards a Coupled Hydrologic/Economic Model to Support Groundwater Irrigation Decisions <i>Boyao Tian, University of Waterloo</i></p>

Thursday, June 20

Thursday 8:30 - 10:00 AM

9 **PLENARY SESSION: GLOBAL ENGAGEMENT - Moderator David Hyndman**

Claudia Ringler, IFPRI/CGIAR

Karen Grothe Villhalth, Water Cycle Innovation

Yoshihide Wada, King Abdullah University of Science and Technology

Thursday 10:30 AM - 12 Noon

<p>10A Groundwater Governance: Participatory Approaches Chair: Cameron Holley</p> <p>Leveraging science for community-led groundwater management: Past experiences and policy integration <i>Alok Sikka, International Water Management Institute</i></p> <p>Beyond the surface: exploring social challenges in groundwater community monitoring implementation <i>Jean-Daniel Rinaudo, BRGM</i></p> <p>SGMA's Transformative Impact: Assessing Stakeholder Engagement in Groundwater Management <i>Jelena Jezdimirovic, UC Davis</i></p> <p>Harnessing Science-based Collaborative Groundwater Management: Case Study of the Salinas Valley, CA <i>Abby Ostovar, Montgomery & Associates</i></p>	<p>10B Economic and Policy Challenges to Groundwater Management Chair: Esha Zaveri</p> <p>Policy Tools and Programs for Agricultural Ground Water Management in the American West <i>Ethan Orr, University of Arizona</i></p> <p>The complex interplay of natural and socio-economic forces driving groundwater extraction in Taiwan <i>Shih-Yao Lee, Department of Bioenvironmental Systems Engineering, National Taiwan University</i></p> <p>Groundwater Investment Assessment: A Novel Application of Modern Portfolio Theory in a CGE Framework <i>Angga Pradesha, IFPRI</i></p> <p>Tradeoffs in the Design of Groundwater Conservation Policies <i>Mani Rouhi Rad, Texas A&M University</i></p> <p>The Hydro-Economic well Performance (HELPER) model: quantifying drought and overdraft impacts <i>Justin Thompson, Bureau of Economic Geology</i></p>	<p>10C Land Repurposing Chair: Ryan Bailey</p> <p>A strategic and inclusive approach to multibenefit land repurposing in California <i>Jose M. Rodriguez-Flores, Environmental Defense Fund</i></p> <p>A Decade of Groundwater Retirement in the Walker River Basin: A Practical Perspective <i>Peter Stanton, Walker Basin Conservancy</i></p> <p>Identifying Producer Perspectives on Repurposed Land Strategies in Kern County, California <i>Gracie Bartel, San Diego State University</i></p> <p>Development and Implementation of a Land Repurposing Program in the Merced Subbasin <i>Christopher Heppner, EKI Environment & Water, Inc.</i></p>	<p>10D Global Perspectives on Irrigation and Sustainability Moderator: Isaya Kisekka</p> <p>Model of Consumptive use for the Conterminous United States: Coupling Satellite-Sourced Estimates <i>Richard Niswonger, USGS</i></p> <p>Developing Groundwater for Agricultural Irrigation in Niger <i>Alexandra Lutz, DRI</i></p> <p>State and Prospects of Groundwater Use For Irrigation Needs in Ukraine <i>Boris Faybishenko, Lawrence Berkeley National Laboratory</i></p> <p>Historical and projected groundwater use and depletion at global scales <i>Hugo Loaiciga, University of California / Santa Barbara</i></p>
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NETWORKING LUNCH 12:00 - 1:30

Thursday 1:30 - 3:00 PM

<p>11A Groundwater Governance: Participatory Approaches Roundtable Moderator: Jean-Daniel Rinaudo</p> <p>Beyond extraction: Co-constructing a shared vision of policy options for land subsidence control <i>Tailin Huang, Disaster Prevention Education Center, NCKU</i></p> <p>Building Resilience to Climate Change Impacts through Community Engagement in Water Management <i>Andres Reyna, San Diego State University</i></p> <p>Fear, Loathing and the Heart of Uncertainty: Reframing the Conversation about Demand Management <i>Dave Ceppas, David M. Ceppas - Public Policy Facilitation and Mediation</i></p>	<p>11B Economic and Policy Challenges to Groundwater Management Roundtable Moderator: Sharon Megdal</p> <p>Assessing the Financial Feasibility of Developing Solar-powered Groundwater Irrigation in Nigeria <i>Hua Xie, International Food Policy Research Institute</i></p> <p>An optimization model of agriculture in California's San Joaquin Valley to achieve multiple benefits <i>Yiqing Yao, UC Davis</i></p> <p>Supporting Sustainable Water Management Decisions with Science <i>Andrea Brookfield, University of Waterloo</i></p> <p>Groundwater Sustainability in California's San Joaquin Valley and Opportunities for Water Trading <i>Spencer Cole, Public Policy Institute of California</i></p> <p>The Hidden Wealth of Nations: The Economics of Groundwater in Times of Climate Change <i>Esha Zaveri, The World Bank</i></p>	<p>11C SGMA 10 Year Anniversary Roundtable Moderator: Vicki Kretsinger Grabert</p> <p>Incentives and Strategies for Multi-Benefit Recharge: Lessons from California's Central Valley <i>Joseph Choperena, Sustainable Conservation</i></p> <p>Working toward Sustainable Groundwater Resources in an Uncertain Future (Continued from June 2016) <i>Brian Lockwood, Pajaro Valley Water Management Agency</i></p> <p>Agricultural Adaptation to SGMA Impacts in the New Water Risk Environment <i>Timothy Parker, Parker Groundwater</i></p> <p>Ten years after SGMA - Accomplishments and the Road Ahead <i>Paul Gosselin, CA Department of Water Resources</i></p> <p>Past, Present and Future of Groundwater Management in California <i>Allison Febbo, Westlands Water District</i></p>	<p>11D SESSION CLOSED</p>
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Thursday 3:30-5:00 PM

12 PLENARY SESSION: ENGAGING AND MOVING FORWARD - Moderator Ellen Hanak

Alvar Closas, Independent consultant

Paul Gosselin, California Department of Water Resources, Head of SGMO

Thomas Harter, University of California at Davis

Sharon Megdal, The University of Arizona

Amal Talbi, The World Bank

Name	Surname	Institution/Organization/Company	Session(s)
Salam	Abbas	Colorado State University	3C
Karen	Abdelmoneem	Arizona State University	4B
Festa Ngata	Abera	Bahar Dar University	2A
Hoori	Apine	University of California Riverside	4C
Neswala	Apine	Lawrence Berkeley National Lab	4C
Hannah	Alex	California Water Data Consortium	Poster (T)
Staphania	Amagnon	Madera County	8B
Till	Angermann	Luhdorff & Scalmani Consulting Engineers	3A, 4C
Wyatt	Arnold	CA Department of Water Resources	2D
David	Arata	CA Department of Water Resources	2D
Ngoboo	Atuma	University of California, Agricultural and Natural Resources	2C
Lea	Augustin	Technical University of Munich	4D
Philip	Bachard	Bachard & Associates	6D, 7D
Ryan	Bachard	Colorado State University	6C, 10C
Shahar	Baran	Institute for Soil, Water and Environmental Sciences, Agricultural Research Organization (ARO), New York Research Center	4A
Giulia	Baroni	San Diego State University	10C
Jeffrey	Basara	University of Massachusetts Lowell	4B
Handika	Bator	University of Waterloo	4A, 5
Osita	Bekean	College of Science and Engineering, National Centre for Groundwater Research and Training, Flinders University	8D
Ken	Belitz	US Geological Survey	4B, 5
Barbara	Bhafari	Indian Institute of Science	6A
Kathy	Boomer	Foundation for Food & Agriculture	8B
Andrea	Brookfield	University of Waterloo	3C, 11B
Simon	Bujs	WVU, Dutch National Institute for Public Health and the Environment	8A
Mila	Bucly	LUGD IN	4D
Alberto	Caillax-Travira	University of California at Davis	Poster (T)
Joseph	Chaperena	Sustainable Conservation	11C
Alvar	Claus	Independent consultant	2C, 12
Spencer	Cole	Public Policy Institute of California	11B
Helen	Dahlia	University of California, Davis	4D, 7D
Barbara	Dalghis	Luhdorff & Scalmani Consulting Engineers	7A
Jeffrey	Davis	Davis Engineering, California State University, Chico	2C
Alycia	Dickinson	Formation Environmental	Poster (W)
Pia	Ebeling	UFZ	8A
Erica	Edwards	UC Davis	Poster (W)
Sophie	Ehrlich	Manreck G360 Groundwater Institute	7C
Carl	Evers	AGIS	5
Claudia	Faurt	USGS/CANVSC	10C
Boris	Faybishenko	Lawrence Berkeley National Laboratory	10C
Allison	Felbo	Westland Water District	11C
Ty	Ferre	University of Arizona	7B
Michael	Finnen	USGS Upper Midwest WSC	2A
Ryan	Flaherty	Sustainable Conservation	2B
Francisco	Flora-Lopez	CA Department of Water Resources	2D
Miranda	Fram	U.S. Geological Survey	3A
Jeff	Garcia	University of Iowa	3B, Poster (T)
Christina	Gemperto	Grower	3D
Meredith	Goebel	Stanford University	4D
Paul	Gosselin	CA Department of Water Resources, Sustainable Groundwater Management Office	11C
Christopher	Green	US Geological Survey	3A, 6A, 7A
Evan	Gurtak	Santa Clara Valley Water District	Poster (W)
Maurice	Hall	Environmental Defense Fund	2A, 7C
Jason	Harak	PPIC Water Policy Center	3B, 12
Bingliang	Hansen	Geological Survey of Denmark and Greenland - GEUS	1
Thomas	Harter	University of California at Davis	3A, 12
Christopher	Heggenner	EKI Environment & Water, Inc.	3B, 10A
Caroline	Hedley	UNSW	3B, 10A
Talin	Huang	Disaster Prevention Education Center, NXU	11A
Matthew	Hurley	McKinnin Asia GSA	1
David	Hyndman	University of Texas at Dallas	1
Tsai	Hwangseok	California School of Mines and Lawrence Berkeley National Laboratory	8, 3C, 8B
Devalamthi	Jayaweera	Dagubay Water for Food Global Institute	4B
Jienna	Jedimovic	University of California at Davis	2C
Yefeng	Jiang	Agriculture and Agri-food Canada	4A
Jiangyue	Ju	University of Waterloo	4C
Al	K. Ghorbanpour	University of California at Davis	Poster (T)
Jessica	Kanter	UC Cooperative Extension	7A
Zach	Kard	UN Climate Impacts Group	7D
Dorby	Kellum	NMSU	Poster (T)
Juel	Kimmelmaier	Land ID	4C
Wolfgang	Knaebelbach	ETH Zurich (Emmerli)	6C, 8C
Itape	Krakka	University of California at Davis	4B, 10B, 10C
Patty	Krasner	Valley Water Collaborative, Executive Director	8A
Megan	Kroner	University of Illinois at Urbana-Champaign	8B
Sasha	Kuo-Chama	UNSW (Home) and Sustainability Frameworks, LLP	9
Clare	Kouba	University of California at Davis	2A
Georgios	Kouziatis	University of California at Davis	4C, Poster (W)
Mark	Kram	Groundwell Technologies, LLC	4D
Amy	Kremen	Irrigation Innovation Consortium/Colorado State University	2B, 8A, 11C
Vicki	Kreisinger Grabert	Luhdorff & Scalmani Consulting Engineers	7C
Noorali	Kurbano	State Estimator "Hydroinformatics"	7C
David	Lampe	U.S. Geological Survey	3A
Ruth	Langridge	University of California, Santa Cruz	8B
Kaleb	Lay	Oregon Rural Action	2C
Shih-Yao	Lee	Department of Bioenvironmental Systems Engineering, National Taiwan University	10B
Stephan	Lewis	Governor. Gila River Indian Community	1
Bruce	Lindsay	U.S. Geological Survey	5
Hugo	Loockige	University of California / Santa Barbara	8D
Brian	Lockwood	Pigano Valley Water Management Agency	11C
Alexandra	Lutz	ORE	10D
Duncan	MacEwan	ERA Economics	8B
Richard	MacEwan	USGS	10D
Ayba	Massey	Sustainable Conservation	6D
Marshall	Matt	GE Tomlin	2B
Cynthia	McClain	Alberta Biodiversity Monitoring Institute	4A
Shanon	Megal	The University of Arizona	3B, 11B, 12
Ruth	McKeown Dick	International Food Policy Research Institute	8B
Rhonda	Miller	Utah State University	Poster
Betsy	Miller	San Bernardino Valley Water Conservation District	2B
Ken	Miller	Turkey Irrigation District	8A, 8B
Wes	Miller	Sustainable Conservation	3D
Daniel	Mouring	Woodard & Curran	6C
Reza	Namvar	Poster (W)	Poster (W)
Prescious	Nyabari	Poster (W)	Poster (W)
Amy	O'Reilly	USDA-ARS	4D, 7D
Harmut	Obami-Dondou	University of Maribor (SQUABA)	Poster
Felix	Ogundokun	University of California, Davis	Poster (W)
Ethan	Orr	University of Arizona	10B
Abby	Osborne	Montgomery & Associates	10A
Clare	Pace	University of California, Berkeley	2C
Tessley	Porter	Porter Groundwater	8D, 11C
Christian	Petersen	GEI Consultants	7A
Uta	Porta	Montgomery & Associates	1, 4A, 7A
Angie	Prabhala	IFPRI	10B
Sara	Qadiri	UCANR	2C
Melanie	Redding	Washington State Department of Ecology	6A
Andrew	Reyna	San Diego State University	11A
Jean-Daniel	Rinaudo	Big	10A, 11A, 11B
Claudia	Ringler	IFPRI/CGIAR	9
Joan M	Rodriguez-Flora	Environmental Defense Fund	10C
Michael	Ross	Almond Board of California	2B
Andrew	Ross	Fenner School of Environment and Society, Australian National University	2A, 6D
Dwaine	Roth	Big D Farms Inc./Front Porch Farms	1
Mari	Roth-Rad	Texas A&M University	10B
David	Rudolph	University of Waterloo	5
P	Rues	George Mason University	8C
Sonia	Sanchez	Selfhelp Enterprises	10C
Leland	Scantlebury	University of California at Davis	2A
Keith	Schilling	University of Iowa	4A
Manoj	Shukla	New Mexico State University	8B, 10A
Alok	Sikka	International Water Management Institute	8D, 10A
Hugh	Sinason	University of Guelph	4A
Darren	Sinclair	University of California	8D
Karandeep	Singh	CA Department of Water Resources	2D
Barhanu	Sinshaw	University of California Merced	8D
Mauricio	Soriano	California State University, Fresno	Poster (T)
Peter	Stanton	Water Basin Conservancy	10C
All	Tajiri	Woodard & Curran	3D
Angel	Tapi	The World Bank	2B, 12
Klara	Tesari Arambulo	Pontificia Universidad Católica de Chile	Poster
Anne	Thaler	University of Washington, Climate Impacts Group	2C
Justin	Thompson	Bureau of Economic Geology	10B
Bryan	Thomson	GEI Consultants	4D, Poster (W)
Bozano	Tian	University of Waterloo	Poster (W)
Shubhan	Tiwari	IRPI, CNR Italy	8C
Ken	Vandewater	Pennsylvania State University	6A
Nathan	Van Schmidt	SFBIO	7C
Karen Gonthier	Waltbull	Water Cycle Innovation	7C, 9
Yochiel	Wala	King Abdullah University of Science and Technology	6D, 9
Kris	Walsham	University of California Davis	6D
Adam	Waldenstrom	New Mexico State University	8C
Jim	Walling	CA Department of Water Resources	2D
Tim	Walters	FortChapman/USGS	4A
Sarah	Woolf	Grower, Waterwise Consulting	3D
Hua	Xie	International Food Policy Research Institute	11B
Yiqing	Xie	University of California, Davis	11B
Hao-Lung	Yu	National Taiwan University	6C
Felix	Zwart	The World Bank	10B, 11B
You-Kuan	Zhang	Southern University of Science and Technology	7A