

2026 UCOWR/NIWR Annual Water Resources Conference Preliminary Program

Presenters - Use 'Ctrl F' to search for your name and find your place in the program.

If you checked "willing to moderate" in abstract submission, you may have been placed as a session moderator. Please let us know if you are unable to moderate the given session.

Sunday, June 7 (Pre-conference)

1:30 PM - 4:30 PM Technical Field Trip: San Antonio Water System H2Oaks Tour (must be pre-registered)

8:00 AM - 11:30 AM UCOWR Board of Directors Meeting

Monday, June 8

7:30 AM - 3:30 PM Registration

7:30 AM - 8:30 AM Breakfast (with Student Networking Tables!)

8:30 - 9:20 AM Plenary Session I - Gregg Eckhardt, San Antonio Water System

9:20 - 9:40 AM Break

9:40 - 10:40 AM San Antonio Water Systems Walking Tour (pre-registration required)

9:40 - 10:40 AM Concurrent Sessions I (60 minutes) (Moderator)

Session 1

(Salon del Rey A)

From Data to Decisions: Connecting Water Measurement with Adaptive Management (Helen Dahlke, University of California, Davis)

9:40 AM *Regional Water Budgets for Improved Water Management and Planning in Data-Limited Regions* Ahmed Mashaly

9:55 AM *Strategic Water Futures in Tulare County: Market Solutions and Recharge Under SGMA and Climate Uncertainty* Josue Medellín-Azuara

10:10 AM *Comparative Analysis of Irrigation Systems in Southern New Mexico: Efficiency, Productivity, and Resilience* Jorge Preciado

10:25 AM *Reimagining alfalfa as a flexible crop for water security in the Southwestern USA* Helen Dahlke

Session 2

(La Corona)

Produced Water Management, Treatment, and Reuse (Walter Den, Texas A&M University San Antonio)

9:40 AM *Produced Water in Texas through 2070: Historical Reconstruction, Scenario-Based Forecasting, and Water Planning Implications* Matthew Kolade Ajakaiye

9:55 AM *Statistical Inferences of Deteriorating Surface Water Quality in the Receiving Streams of Oilfield Wastewater in South Texas* Walter Den

10:10 AM *Parametric Studies for the Optimization of Temperature-Responsive Solvent Extraction for Desalinating Hypersaline Brine Water* Agyei Kyeremeh

10:25 AM	<i>Oxidative Removal of Residual Amines in Solvent-Extracted Hypersaline Brines</i>	<i>Shuwei Zhu</i>
Session 3 (La Condesa)		
Agricultural Irrigation Strategies (Nathan Howell, West Texas A&M University)		
9:40 AM	<i>Pumping Time Reductions from Irrigation Water Management Practices: Evidence from Arkansas Irrigated Producers</i>	<i>Eva Stephani Caroline</i>
9:55 AM	<i>Adapting Irrigation Scheduling Strategies for Variable Rainfall Conditions in Mid-Southern Soybean Production</i>	<i>Dillon Russell</i>
10:10 AM	<i>Growth-stage-based deficit irrigation strategies for sustaining crop production under declining water availability in the Texas High Plains</i>	<i>Srinivasulu Ale</i>
10:25 AM	<i>Developing Overhead Irrigation Recommendations for the Midsouthern US</i>	<i>Dave Spencer</i>
Session 4 (La Reina)		
Watershed Management I (Greg Williams, StormTrap)		
9:40 AM	<i>Navigating from Targeted Sediment Control to Eco-Hydrological Resilience in Grassland Streams</i>	<i>Torsha Goswami</i>
9:55 AM	<i>Integrating OpenET and soil moisture data to optimize agricultural water use in the western United States</i>	<i>Masoumeh Hashemi</i>
10:10 AM	<i>Estimates of water yield in managed southern pine forests</i>	<i>Brett Lawrence</i>
10:25 AM	<i>Soil Moisture Dynamics and Water Yield in Diverse Forest Stands in Longleaf Pine Restoration Site, Lower Trinity Watershed, Southeast Texas.</i>	<i>Rajan Subedi</i>
Session 5 (La Duquesa)		
Modeling I (Ken Tobin, Texas A&M International University)		
9:40 AM	<i>Evaluating HAWQS as a decision-support tool to prioritize watershed restoration strategies in coastal Texas</i>	<i>Umar Javed</i>
9:55 AM	<i>Snow Variability Model in Lodgepole Pine (Pinus contorta) Forests</i>	<i>Jocelyn Cramer</i>
10:10 AM	<i>NeuralFAO56: A Physics-Guided Neural Network for Irrigation Demand Estimation</i>	<i>Adarsha Neupane</i>
10:25 AM	<i>Assessment of the Sediment Transport Regime in the Corpus Christi Bay System</i>	<i>Victor Garcia</i>

10:40 - 11:00 AM Break

11:00 AM - 12:00 PM

Concurrent Sessions II (60 minutes) (Moderator)

Session 6 (Salon del Rey A)		
Innovative Approaches in Extension Outreach and Education (Allen Berthold, Texas A&M AgriLife, Texas Water Resources Institute)		
11:00 AM	<i>Evaluating Extension outreach efforts on the adoption of irrigation management practices to address groundwater depletion in the Lower Mississippi River Basin.</i>	<i>Drew Gholson</i>
11:15 AM	<i>Mississippi Water Stewards: Community-Based Watershed Education and Protection</i>	<i>Beth Baker</i>
11:30 AM	<i>Mailbox marketing: Use of direct mail campaigns to fill the Extension audience gap in watershed outreach and education</i>	<i>Audrey McCrary</i>

11:45 AM	<i>Utilizing artificial intelligence technology to support water Extension specialists with split appointments: Unofficial advice from a 0.25 Extension FTE holder</i>	Joseph Burke
Session 7 (La Duquesa)	Advanced Wastewater Surveillance for Public Health (Fuqing Wu, The University of Texas Health Science Center at Houston)	
11:00 AM	<i>Wastewater-Based Epidemiology as a Tool for Monitoring Substance Use Trends and Enhancing Public Health Responses</i>	Bikram Subedi
11:15 AM	<i>Microfluidic Capture-Enrichment of individualized microbes from urban wastewater reveals a reservoir of serum-tolerant potential pre-emergent pathogens</i>	Siyi Zhou
11:30 AM	<i>A wastewater-based mechanistic framework to quantify norovirus infection burden and transmission dynamics</i>	Jinze Li
11:45 AM	Q&A	
Session 8 (La Corona)	Agricultural Productivity and Sustainability (Giovanni Piccinni, Texas Water Resources Institute)	
11:00 AM	<i>Alternative Water Resources, Soil Dynamics, and Their Role in the Future of Agricultural Production</i>	Katie Lewis
11:15 AM	<i>Soil Water Conservation in Semi-Arid Regions Using Regenerative Agricultural Practices</i>	Christopher Cobos
11:30 AM	<i>Sustainability of Beef Production Systems in the U.S. Great Plains through Assessment of Water and Carbon Footprints</i>	Mary Foltz
11:45 AM	<i>Irrigation-Induced GHG Pulses: Implications for Carbon Budgets</i>	Nithya Rajan
Session 9 (La Condesa)	Watershed Management II (Torsha Goswami, Kansas State University)	
11:00 AM	<i>Accounting for groundwater residence time to assess delayed nutrient reduction from conservation practices</i>	Muhammad Raffae
11:15 AM	<i>Urbanization Dominates Watershed Scale Controls on E. coli in Mixed Land Use Sub-Watersheds</i>	Abdul Saboor Rahmany
11:30 AM	<i>Updating the Northern Guam Lens Aquifer's Groundwater Protection Zone</i>	Risel Uludong
11:45 AM	<i>An Interpretable, Data-Driven Machine-Learning Framework for Large-Scale BMP Prioritization</i>	Hoda Razavi
Session 10 (La Reina)	Stormwater Management (Clifford Swanson, University of Idaho)	
11:00 AM	<i>Node-Scale Flooding in Urban Drainage Networks Using a Graph Neural Network Emulator</i>	Nima Zafarmomen
11:15 AM	<i>Quantifying Parcel-Scale Green Infrastructure Benefits for Urban Heat and Stormwater Reduction in Legacy Row-Home Neighborhoods</i>	Alex Nwosu
11:30 AM	<i>How to Train Your Model: Using AI for Hydrodynamic Separator Design</i>	Greg Williams
11:45 AM	<i>A Proactive Approach to North-Central Texas Growth & Development: Integrated Transportation and Stormwater Infrastructure (TSI)</i>	Aaron Hoff
Session 11 (La Princesa)	Groundwater I (Kelechi Igwe, Kansas State University)	

11:00 AM	<i>Binational Significance of Groundwater Baseflow to the Rio Grande Wild and Scenic River (Texas, USA)</i>	Kevin Urbanczyk
11:15 AM	<i>Estimating Groundwater Travel Time Using SWAT+ and Metolachlor Ethane Sulfonic Acid (MESA) Sampling in the Choptank River Watershed</i>	Zaichen Xiang
11:30 AM	<i>A Critical Review of Surface Water Storage and Subsurface Recharge in Declining Portions of the Mississippi River Valley Alluvial Aquifer</i>	Mohammad Iqbal
11:45 AM	<i>An interactive framework for quantifying the potential for seasonal water well conflicts in Indiana</i>	Laura Bowling

12:00 PM - 1:15 PM UCOWR Delegate Business Luncheon / Everyone else Lunch on their own

1:15 - 4:20 PM (Salon del Rey A) **Workshop: Post-Development Green Infrastructure Inspection and Maintenance (Facilitator: Debrabata Sahoo, Clemson University)**

1:15 - 2:45 PM **Concurrent Sessions III (90 minutes) (Moderator)**

Session 12 (La Corona) Lessons learned in building partnerships to fund conservation (Lucas Gregory, Texas A&M University)		
1:15 PM	<i>The Texas Partnership for Forests and Water</i>	Julia Schmidt
1:30 PM	<i>Session - "Lessons Learned in Building Partnerships to Fund Conservation"</i>	Samantha Colunga
1:45 PM	<i>From Plans to Practice: Building Trust-Based Partnerships for Successful Watershed Implementation in the Medina River Watershed</i>	Mary Michael Zahed
2:00 PM	<i>Building and Sustaining Conservation Partnerships in the Baffin Bay Watershed</i>	Athena Frasca
2:15 PM	<i>Lessons Learned in Building Partnerships to Fund Conservation</i>	Lucas Gregory
2:30 PM	Q&A	
Session 13 (La Condesa) Lightning Talks: Transboundary Groundwater Aquifers: A Strategic and Vulnerable Resource in the US-Mexico Border (Isaac Garza, NMSU-WRRI)		
1:15 PM	<i>Sharon B. Megdal (University of Arizona WRRRC)</i>	
	<i>Rosario Sanchez (TWRI)</i>	
	<i>Sam Fernald (NM WRRI)</i>	
	<i>Huidae Cho (New Mexico State University)</i>	
	<i>Kenneth Carroll (New Mexico State University)</i>	
	<i>Alfredo Granados (UACJ)</i>	
	<i>Elia María Tapia Villaseñor (University of Arizona and WRRRC)</i>	
	<i>Santosh Palmate (Texas A&M University)</i>	
	<i>Ashley Atkins (SDSC)</i>	

Session 14 (La Reina)	Cultivating Collaboration and Research Insight from Testing Ag Performance Solutions and Irrigation Programs (Amy Kremen, Colorado State University)	
1:15 PM	<i>The Oklahoma TAPS Program: Producers' lead research for efficient crop production</i>	<i>Sumit Sharma</i>
1:30 PM	<i>Water–Nitrogen Interactions Drive Nitrous Oxide Emissions in Semi-Arid Irrigated Corn Systems</i>	<i>Jashmina Pandey</i>
1:45 PM	<i>Assessing the Water Footprint of Corn Production under Central Pivot Irrigation in the Oklahoma Panhandle</i>	<i>Salma Nasrin Siddique</i>
2:00 PM	<i>Model improvements and challenges for estimating environmental impacts from TAPS sites in the U.S. Great Plains</i>	<i>Lizzie Booker</i>
2:15 PM	<i>Linking Irrigation Timing and Corn Yield Using NDVI Time Series and ARX-Ridge Regression</i>	<i>Wubengeda Yilma</i>
2:30 PM	<i>Technology Demonstrations and Education on Farms for improved Irrigation Decisions and Sustainable Groundwater use</i>	<i>Abia Katimbo</i>
Session 15 (La Duquesa)	Water Quality I (Shalina Shahin, Xavier University of Louisiana)	
1:15 PM	<i>Neutron Activation of Tribal Waters: a 'Deeper' Look into What 'Water is Life' Means</i>	<i>Angela Teeple</i>
1:30 PM	<i>Hydrogeologic Drivers and Management Implications of PFAS, Nitrate, and Pharmaceutical Co-Occurrence in a Karst Beneficial Reuse System</i>	<i>Kelly Kosiarski</i>
1:45 PM	<i>Adapting Water and Sediment Control Basin (WASCoB) to enhance Nitrogen and Phosphorus attenuation during runoff.</i>	<i>Kehinde Ojeniyi</i>
2:00 PM	<i>Tying Concentration-Based Watershed Metrics to Nutrient Loads in the Arkansas Nutrient Reduction Strategy</i>	<i>Erin Grantz</i>
2:15 PM	<i>Evaluating the Mill Creek Watershed After Ten Years of Watershed Protection Plan Implementation</i>	<i>Annalee Epps</i>
2:30 PM	<i>Modeling Water Quality Impacts of Seasonal Riparian Area Management in a Midwestern Watershed</i>	<i>Tulsi Ram Pokhrel</i>
Session 16 (La Princesa)	Watershed Extension Efforts (Leanne Wiley, Texas A&M AgriLife Extension Service)	
1:15 PM	<i>Predicting homeowners' lawn water conservation intentions in Texas: A theory of planned behavior change analysis</i>	<i>Millicent Oyugi</i>
1:30 PM	<i>Empowering watershed groups by engaging undergraduates in volunteer collected data analysis</i>	<i>W Adam Sigler</i>
1:45 PM	<i>Empowering the Tennessee Stream Team to Implement Bioengineering Approaches to Restore Riverbanks in Helene-Affected Watersheds of East Tennessee</i>	<i>Andrea Ludwig</i>
2:00 PM	<i>Water through the Eyes of South Dakotans</i>	<i>Sushant Mehan</i>
2:15 PM	<i>Find a need, fill a need: Aligning water quality extension efforts with the needs of Utahns</i>	<i>Clare Entwistle</i>
2:30 PM	<i>Assessing Homeowner Perspectives and Barriers to Maintenance of On-Lot Septic Systems in Pennsylvania</i>	<i>Faith Kibuye</i>

2:45 - 3:05 PM Break

3:05 - 4:20 PM

Concurrent Sessions IV (75 minutes) (Moderator)

**Session 17
(La Corona)**

Lock, Key, and Flow: Communicating Water (Kelsey Stremel, Kansas State University)

3:05 PM

Panel

Kelsey Stremel

Melissa Harvey

Susan Metzger

**Session 18
(La Condesa)**

Water Quality II (Laura Krueger, Kansas State University)

3:05 PM

Evaluating the Effects of Water Use Efficiency and Conservation on Wastewater Quality across California Municipal Treatment Facilities

Hope Hauptmann

3:20 PM

Assessing the Impact of Agricultural Land Losses on Water Quality in Tennessee

Haylee Ferguson

3:35 PM

SPATIOTEMPORAL OCCURRENCE OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) IN A GULF COAST WATERSHED

Chloe Rodriguez

3:50 PM

ENUMERATING ESCHERICHIA COLI (E. COLI) CONCENTRATIONS AND EVALUATING OPTICAL BRIGHTENERS AS A POTENTIAL INDICATOR OF HUMAN WASTEWATER CONTAMINATION IN LA NANA BAYOU, BANITA CREEK, AND THEIR TRIBUTARIE

Matthew W McBroom

4:05 PM

Predicting In-Lake Turbidity Using Satellite Data: A Comparison of Spatial Models

Nicholas Taylor

**Session 19
(La Reina)**

Hydrology I (Zaichen Xiang, Colorado State University)

3:05 PM

Streamflow Dynamics and Their Drivers in a Neglected US Water Tower

Alexander Miele

3:20 PM

Evapotranspiration or Precipitation: Which Dominates Groundwater Table Dynamics?

Hafiz Ahmad

3:35 PM

Simulating Rainfall-Runoff Processes in the Rio Grande Basin Using the VIC Model

Simon Teklay

3:50 PM

Understanding Drivers of Water Availability at the Local Level in California

Mohammad Yunus Naseri

4:05 PM

Characterizing Groundwater Recharge Potential through Inefficient Irrigation in Montana

Raeya Gordon

**Session 20
(La Duquesa)**

Policy and People (Taehyun Roh, Texas A&M University School of Public Health)

3:05 PM

Regulating Nonpoint Source Pollution: Evidence from the Municipal Separate Storm Sewer System Program

Rachel Judd

3:20 PM

Understanding Water Security in the United States: A Scoping Review

Abdul Saboor Rahmany

3:35 PM	<i>The Great Lakes Example- A Structure for Cooperative Water Management across State and International Borders</i>	Peter Johnson
3:50 PM	<i>Leveraged local knowledge in water resources research</i>	John Fear
4:05 PM	<i>Empowering Customers past Leak Alerts</i>	Madelyn Perez
Session 21 (La Princesa)	Groundwater II (Kevin Urbanczyk, Meadows Research Institute for West Texas Water - Sul Ross State)	
3:05 PM	<i>Hydrologic Analysis of the Deep Observation Wells in the Northern Guam Lens Aquifer</i>	Mary Clare Snaer
3:20 PM	<i>Evaluating the Efficacy of Mitigation Strategies for Edwards Aquifer Sustainability</i>	Ali Mirchi
3:35 PM	<i>Land Cover Change in the Finegayan Basin, Guam (early 2000s - present) Using Seasonally Calibrated Supervised Classification Workflows</i>	Nicole Mathews
3:50 PM	<i>Enhancing Satellite-Based Estimation of Irrigation Water-Use Across Kansas Using High-Resolution Soil Moisture Data Integrated with Machine Learning</i>	Kelechi Igwe
4:05 PM	<i>Quantifying Irrigation Diminishing Returns in Rotation x Cover-Crop Systems Using Machine-Learned Root-Zone Storage and Drainage Response Curves</i>	Menard Soni

4:30 - 5:30 PM Career Panel for Student and Young Professionals

5:30 - 7:00 PM Welcome Reception and Poster Session

Tuesday, June 9

7:30 AM - 3:30 PM Registration

7:30 AM - 8:30 AM Breakfast - Roundtable Discussions

8:30 - 9:40 AM Plenary Session II - Jay Kleberg, Gulf Trust; and Marcelo Garcia, University of Illinois at Urbana-Champaign - Warren A. Hall Award Recipient

9:40 - 10:00 AM Break

10:00 - 11:00 AM San Antonio Water Systems Walking Tour (pre-registration required)

10:00 - 11:30 AM Concurrent Sessions V (90 minutes) (Moderator)

Session 22 (Salon del Rey A)	Building Connections and Capacity: Effective Extension Water Programs (Facilitators: Ginger Paige, University of Wyoming; Andrea Ludwig, University of Tennessee)	
10:00 AM	<i>Participatory session</i>	
Session 23 (La Corona)	AI & Emerging Tools for Integrated Insights: Water Measurement, Management, and Markets and the Future of Adaptive Water Governance (John Abatzoglou, UC Merced)	
10:00 AM	<i>A water-optimized crop selection model to maintain agricultural yields with less water in the western United States</i>	Robert Sabie

10:15 AM	<i>Understanding Agricultural Water: Experiences and Challenges in Implementing Water Balance for Utah Canal Companies</i>	Alfonso Torres-Rua
10:30 AM	<i>Usable tools for accessing climate change projections across North America in the Climate Toolbox</i>	Katherine Hegewisch
10:45 AM	<i>A Deep Learning Framework for Predicting Soil Burn Severity to Bridge Post-Fire Hydrologic Modeling Gaps</i>	Amirhossein Montazeri
11:00 AM	<i>Advancing Large-Scale Stream Temperature Modeling Across Diverse Hydrological Regions</i>	Md Abu Bakar Siddik
11:15 AM		
Session 24 (La Condesa)	Solar Farms and Watersheds: Implications for Management (Ed Rhodes, Texas Water Resources Institute)	
10:00 AM	<i>Balancing Renewable Energy and Land Conversion: Urban and Rural Patterns of Solar Driven Land Use Change in Texas</i>	Amanda R Tague
10:15 AM	<i>Runoff and Water Quality Outcomes of Solar Land Conversion: Field-Based Insights from Virginia</i>	Luis Mier-Valderrama
10:30 AM	<i>Stream channel response to energy-driven land use intensification in a rural agricultural watershed, Texas, USA</i>	Benjamin Turner
10:45 AM	<i>Analysis of metals in stormwater runoff from a photovoltaic facility in central Texas</i>	Ed Rhodes
11:00 AM	<i>Rangeland Solar Farming: Weighing the Benefits and Challenges of Agrivoltaics in the Southern Great Plains</i>	Xavier Jaime
11:15 AM	<i>Assessing land and water quality implications of large-scale solar energy developments in central Texas</i>	Emeka Orji
Session 25 (La Reina)	Lightning Talks I (Mary Foltz, Oklahoma State University)	
10:00 AM	<i>A systematic review of ecosystem services in the Rabanal Paramo (Colombia)</i>	Paulina Alejandra Vergara Buitrago
10:05 AM	<i>Controls on terrestrial arthropod inputs and impacts to benthic macroinvertebrate communities in ephemeral streams of the San Antonio region</i>	Cidney Williams
10:10 AM	<i>The Impact of Pollutant Discharge Permits on Nutrient Pollution: A Facility-Level Analysis of NPDES Enforcement Effectiveness</i>	Saesol Kang
10:15 AM	<i>Rooted in Remediation: Native Wetland Plants as Nutrient Filters in Floating Treatment Wetlands</i>	Vicktoria Holdaway
10:20 AM	<i>Multi-scale flood preparedness for women's wellbeing in Kathmandu's informal settlements</i>	Kaylie Treskin
10:25 AM	Q&A	
10:45 AM	<i>Assessing the environmental impacts of septic tank irrigation systems in Oklahoma</i>	Pravin Kumar Arumugavel
10:50 AM	<i>SOS (Solutions on Septic): Investigating Septic System Performance Vulnerabilities in Relation to Coastal Environmental Conditions</i>	Cailyn Spedding
10:55 AM	<i>Managing water depletion caused by invasive phragmites around the Great Lakes Salt Lake</i>	Masoumeh Hashemi
11:00 AM	<i>Quantifying Agricultural Resilience: A Geospatial Analysis of Drought, Soil Type, and the Mitigating Effect of Irrigation on Soybean Yield Disparity in Maryland</i>	Ananth Sriram

11:05 AM	<i>Immersive Modeling for Water Banking: Engaging Stakeholders to Generate Strategies to Shepherd Water to the Great Salt Lake</i>	Hadia Akbar
11:10 AM	Q&A	
Session 26 (La Duquesa)	Engineering (Ryan McManamay, Baylor University)	
10:00 AM	<i>Sustainable Wastewater Treatment at Sopron WWTP: A Life Cycle Assessment of Environmental and Energy Performance</i>	Mahdi Echajari
10:15 AM	<i>Cooling the Cloud Without Draining the Desert: Water Consumption, Conservation, and Reuse in Data Center Cooling Systems</i>	Leila Karimi
10:30 AM	<i>Rethinking Onsite Nutrient Removal Through Climate-adaptive Microbial Pathways</i>	Zhiyue Wang
10:45 AM	<i>Configuration Matters: A Technoeconomic and Life Cycle Assessment of Brackish Water Desalination</i>	Arianna Atriqi
11:00 AM	<i>Water and Environmental Tradeoffs of High Temperature Data Centers</i>	Reema Shinh
11:15 AM	<i>A Resource Assessment of Low-Impact Hydropower in Texas</i>	Ryan McManamay

11:30 AM - 1:00 PM Awards Luncheon

1:15 - 2:45 PM (Salon del Rey A) Workshop: Cozy River Valley: A Participatory Workshop Using Interactive Gaming to Explore Water Tradeoffs, Strategies, and Policy Pathways (Facilitator: Lauren Parker, UC Merced)

1:15 - 2:45 PM Concurrent Sessions VI (90 minutes) (Moderator)

Session 27 (La Corona)	Using OpenET to Reduce Over-Appropriation of the Ogallala Aquifer I (Kevin Wagner, Oklahoma State University)	
1:15 PM	<i>Evaluating Seasonal Cotton Water Requirement in Western Kansas Using OpenET and Water Balance Models</i>	Jonathan Aguilar
1:30 PM	<i>Leveraging OpenET Data to Determine Irrigation Timing and the Consequent Impacts on Water Quantity and Quality</i>	Micah Cameron-Harp
1:45 PM	<i>Estimation of Seasonal Irrigation At Place of Use Using OpenET</i>	Sumon Datta
2:00 PM	<i>The Importance of Irrigation Water Use Efficiency in the Economic Modeling of Reduced Water Availability</i>	Bridget Guerrero
2:15 PM	<i>Economic Impacts of Local Groundwater Conservation: Evidence from a Kansas Local Enhanced Management Area</i>	Dayton Lambert
2:30 PM	<i>Analyzing the economic value of irrigation to producers and the regional economy</i>	Donna McCallister
Session 28 (La Condesa)	Addressing Water Uncertainty in the Upper Colorado River Basin (Ginger Paige, University of Wyoming)	
1:15 PM	<i>Modelling and measurement of Conserved Consumptive Use as Wyoming tests water saving measures in the Upper Colorado River Basin.</i>	Joseph Cook
1:30 PM	<i>Spatial Distribution of Economic Impacts in the Green River Basin</i>	Mahdi Asgari
1:45 PM	<i>Advancing Water Resource Management in the Colorado River Basin with OpenET</i>	Sara Larsen
2:00 PM	<i>Discussion</i>	

Session 29 (La Reina)	Return to Compliance: Assisting Communities with Technical Managerial and Financial Capacity Approaches to Improve Compliance (Heather Himmelberger, Southwest EFC)	
1:15 PM	<i>Panel</i>	<i>Heather Himmelberger</i> <i>Jason Barret</i> <i>Tonya Bronleewe</i> <i>Eric Williams</i>
Session 30 (La Duquesa)	Water Quality III (Hope Hauptman, UC ANR - CIWR)	
1:15 PM	<i>Wastewater-Based Assessment of Chemical Contaminants and Potential Health Risks in Louisiana's Cancer Alley.</i>	<i>Shalina Shahin</i>
1:30 PM	<i>Microcystin dynamics from water to air: Insights from preliminary monitoring data</i>	<i>Debrabata Sahoo</i>
1:45 PM	<i>Assessing Spatial and Temporal Dynamics of Harmful Algal Blooms Using Integrated Monitoring Across Indiana Reservoirs</i>	<i>Keith Cherkauer</i>
2:00 PM	<i>Got Blue-Green Algae? Is it Toxic? – Assessing the Reliability and Accuracy of Rapid Cyanotoxin Test Kits</i>	<i>Laura Krueger</i>
2:15 PM	<i>Exploring the Controlling Factors on the Process of Salt Transport within the Upper Colorado River Basin Using APEX-MODFLOW-Salt</i>	<i>Zaichen Xiang</i>
2:30 PM	<i>Estimating salinity fate and transport in a highly managed agro-natural watershed using a newly developed salinity module</i>	<i>Kenneth Laffite</i>

2:45 - 3:05 PM Break

3:05-4:05 PM JCWRE Editors and Associate Editors Meeting

3:05 - 4:35 PM Concurrent Sessions VII (90 minutes) (Moderator)

Session 31 (La Corona)	From State Programs to a National Network: Strengthening Household Well Testing Efforts Across the U.S. (Nicole Colston, Oklahoma State University)	
3:05 PM	<i>Panel</i>	<i>Jason Barret</i> <i>Joel Pigg</i> <i>Jeff Sadler</i> <i>Alec Janis</i> <i>Jessica Curl</i> <i>Brenna Finley</i>
Session 32 (La Condesa)	Market-based Strategies for Water Management: Bridging Theory and Practice (Ellen Bruno, UC Berkeley)	
3:05 PM	<i>The Benefits of Water Trading and Expanded Water Supplies in the Transition to Sustainable Water Use for California's Agriculture</i>	<i>Alvar Escriva Bou</i>

3:20 PM	<i>Do Water Markets Drive Ownership Consolidation? Evidence from California's Mojave Desert</i>	<i>Andrew Ayres</i>
3:35 PM	<i>The Value of Groundwater Storage: Evidence from California's Kern Water Bank</i>	<i>Ellen Bruno</i>
3:50 PM	<i>Can Water Markets Help Mitigate Water Stress in the Colorado River Basin?</i>	<i>Mehdi Nemati</i>
4:05 PM	<i>The Economics of Sustainable Groundwater Recharge across Space and over Time</i>	<i>Leslie Sanchez</i>
4:20 PM	<i>Can Environmental Water Markets Sustain Utah's Great Salt Lake?</i>	<i>Sarah Null</i>
Session 33 (La Reina) Hydrology II (Alexander Miele, ULL)		
3:05 PM	<i>Development of an Integrated Forecast-Based Framework for Streamflow and Soil Moisture Modeling to Support Agricultural Water Management</i>	<i>Eniola Olakanmi</i>
3:20 PM	<i>The Hydrologic Impact of Land Cover on Stormwater Detention Basins in Harris County, Texas</i>	<i>Matthew W McBroom</i>
3:35 PM	<i>Improving Irrigated Watershed Simulations in SWAT+ through a Global QGIS-Based Water Allocation Tool</i>	<i>Zaichen Xiang</i>
3:50 PM	<i>Modeling Sub-watershed Scale Agro-hydrological Impacts of Regenerative Agricultural Practices in the North Fork Red River Basin, USA</i>	<i>Ali Mirchi</i>
4:05 PM	<i>Natural and Anthropogenic Controls on Streamflow, Evapotranspiration, and Groundwater Return Flows in a Managed Semi-Arid River Basin</i>	<i>Kwabena Opoku</i>
4:20 PM	<i>Tracking Global Reservoir-Based Droughts from Space</i>	<i>Deep Shah</i>
Session 34 (La Duquesa) Human Dimensions (Karen Schlatter, Colorado State University)		
3:05 PM	<i>From Source to Body: Disparities in Arsenic Exposure from Texas Water Systems to National Biomonitoring</i>	<i>Zachary Kobs</i>
3:20 PM	<i>Finding Common Water Through Immersive Experience</i>	<i>Lauren Parker</i>
3:35 PM	<i>Public perceptions of PFAS and drinking water quality across the U.S.</i>	<i>Michael Schramm</i>
3:50 PM	<i>Beyond Infrastructure: Linking Multiple-Use Water Services and experiences with Household Water Insecurity in Rural Mali.</i>	<i>Matt Stellbauer</i>
4:05 PM	<i>21st century global surface water security risks are exemplified in Texas</i>	<i>Thad Scott</i>
4:20 PM	<i>Quantifying Sustained Outdoor Water Savings from Conservation Programs using AMI Data</i>	<i>Jennifer Granneman</i>

3:05 - 4:55 PM (Salon del Rey A) The Power Skills Workshop (Facilitators: Melvin Pouncy and Josh Anderson, Agricultural Teachers Association of Texas)

5:00-6:00 PM Networking for Students and Young Professionals

6:00-8:30 PM Social Outing Drop-in (TBD)

Wednesday, June 10

7:30 AM - 10:00 AM Registration

7:30 AM - 8:30 AM Breakfast

8:30 - 9:20 AM Plenary Session III - Bridget Scanlon, Bureau of Economic Geology, University of Texas at Austin

9:20 - 9:40 AM Break

9:40 - 11:10 AM (Salon del Rey A) **Workshop: A practical overview of publishing, discovering, and reusing water data with HydroShare (Facilitator: Emily Clark, CUAHSI)**

9:40 - 11:10 AM **Concurrent Sessions VIII (90 minutes) (Moderator)**

**Session 35
(La Corona)**

Using OpenET to Reduce Over-Appropriation of the Ogallala Aquifer II (Kevin Wagner, Oklahoma State University)

9:40 AM	<i>Producer Barriers to Transitioning to Reduced Groundwater Use</i>	<i>Samuel Baumer</i>
9:55 AM	<i>SatRAP: A Satellite-Enabled, Producer-Centered Framework for Sustainable Irrigation in the Southern High Plains</i>	<i>Susan Metzger</i>
10:10 AM	<i>OpenET: Supporting Advances in Data-driven Water Resources Management through Satellite Mapping of Evapotranspiration</i>	<i>Forrest Melton</i>
10:25 AM	<i>Evaluation of OpenET's Accuracy in Delineating Agricultural Field Boundaries</i>	<i>Alok Pandit</i>
10:40 AM	<i>Comparing Evapotranspiration in Furrow vs Sub-surface Drip Irrigated Cotton Fields Using OpenET</i>	<i>Alok Pandit</i>
10:55 AM	<i>Groundwater Law Impacts on Conservation Implementation</i>	<i>Amy Hardberger</i>

**Session 36
(La Condesa)**

Advancements in Recreational Water Quality Management: Integrating MST and QMRA to Inform Decision-Making (Anna Gitter, University of Texas Health Science Center at Houston (UTHealth))

9:40 AM	<i>Panel</i>	<i>Valeria Ruvalcaba</i>
		<i>Terry Gentry</i>
		<i>Lucas Gregory</i>
		<i>Lucy Flores</i>
		<i>Anna Gitter</i>

**Session 37
(La Reina)**

Lightning Talks II (Umar Javed, Texas Water Resources Institute)

9:40 AM	<i>Partnerships -- An Important Agricultural BMP</i>	<i>Kate Zielke</i>
9:45 AM	<i>Beyond the Lecture: Using Citizen Science to Build Water Literacy Through Campus Biodiversity</i>	<i>Melissa Mullins</i>
9:50 AM	<i>Identifying Genomic Signatures for Wastewater AMR Surveillance Using Single Cell ddPCR</i>	<i>Michael Wang</i>
9:55 AM	<i>Know Your Well: Nebraska's Classroom-based Participatory Science Program for Well Water Quality</i>	<i>Sara Brock-Contreras</i>

10:00 AM	<i>The role of irrigation infrastructure in groundwater protection</i>	<i>W. Adam Sigler</i>
10:05 AM	<i>Q&A</i>	
10:25 AM	<i>Evaluating environmental performance of alternative dairy production systems using a rainfall simulator.</i>	<i>Dennis Busch</i>
10:30 AM	<i>Two-Dimensional Hydrodynamic Flood Modeling Using Rain-on-Grid for Hurricane Flood Risk</i>	<i>Tared Gebregziabher</i>
10:35 AM	<i>Modeling Streamflow and Water Balance Components in the Upper Colorado River Basin Watersheds using SWAT+</i>	<i>Ali Akram Niazi</i>
10:40 AM	<i>Building Tomorrow's Water Security Today: SAWS Path to Resilience</i>	<i>Steven Siebert</i>
10:45 AM	<i>Uncertainty Quantification of EEMD and VMD Models for Reconstruction of Water Quality Data</i>	<i>Abdulgafar Badrudeen</i>
10:50 AM	<i>Q&A</i>	
Session 38 (La Duquesa)	Economics (Gertrude Dotse Bampoe, University of Arkansas)	
9:40 AM	<i>A Hydroeconomic Model of Intraseasonal Environmental Streamflow Leasing for Salmon and Steelhead Conservation in an Agricultural Basin</i>	<i>Jacob Gifford</i>
9:55 AM	<i>From fields to flyways: Public willingness to pay for migratory bird habitat restoration in California</i>	<i>Roshan Puri</i>
10:10 AM	<i>The Economic Impact of the Dairy Industry in the Southern Ogallala Aquifer Region</i>	<i>Andrew Wright</i>
10:25 AM	<i>When and Where Does Off-Grid Desalination Make Sense? Balancing Cost and Environmental Performance Across Geographic and Seasonal Conditions</i>	<i>Varinia Felix</i>
10:40 AM	<i>Public Works for Public Health: Local Stimulus Effects of Clean Water Act Construction Grants</i>	<i>Taewon Hwang</i>
10:55 AM	<i>Upstream Advantage: The Economic Value of Water Security Under Riparian Rights in Eastern U.S. Agriculture</i>	<i>Nawon Kang</i>

11:10 AM - 12:30 PM Lunch on your own

12:30 PM - 3:20 PM (Salon del Rey A) **Workshop: Hydrologic and Water Quality System (HAWQS) (Facilitator: Raghavan Srinivasan, Texas A&M Agrilife Blackland Research Center)**

12:30 PM - 1:45 PM **Concurrent Technical Sessions IX (75 minutes) (Moderator)**

Session 39 (La Corona)	Urban Stormwater Ponds - Building and Contributing to a Research and Extension Program to Address the Growing Needs of One of the Most Frequently Used Management Practices (John Bilotta, UofMN Water Resources Center)	
12:30 PM	<i>Participatory session</i>	<i>John Bilotta</i>
Session 40 (La Condesa)	Watershed Management and Planning (Kelly Kosiarski, Penn State)	
12:30 PM	<i>Campuswide Water Audit, Fort Hays State University, Hays, KS</i>	<i>Satya Sinha</i>
12:45 PM	<i>Securing Texas's Water Future: Exploring Alternative Water Sources through State Planning</i>	<i>Allen Berthold</i>

1:00 PM	<i>Mapping Concentrated Animal Feeding Operations (CAFOs) Using Remote Sensing and Deep Learning</i>	<i>Sadeem Aloqaili</i>
1:15 PM	<i>Can grazing be a way to offset the cost of cover crops in the Southern Great Plains of Texas and Oklahoma?</i>	<i>Gabriela Suchiapa Magdaleno</i>
1:30 PM	<i>Introducing Texas Water Network Explorer (TWNNet) Tool</i>	<i>Reyna Loosmore</i>
Session 41 (La Reina)	Education and Public Perception (Michael Schramm, Texas Water Resources Institute)	
12:30 PM	<i>Cultivating Collaborative Water Leaders: Lessons from the Climate Adaptation Science Academy</i>	<i>Jack Severson</i>
12:45 PM	<i>How does Behavioral Interventions Influence Outdoor Water Use Efficiency: A case Study in College Station, TX</i>	<i>Alan Lewis</i>
1:00 PM	<i>Enhancing Safety and Awareness Among Outdoor Recreationists on the Buffalo River Blue Way, Perry County, Tennessee</i>	<i>Amanda Mathenia</i>
1:15 PM	<i>Workforce Development for the Future of Sustainable Water Management</i>	<i>Karen Schlatter</i>
1:30 PM	<i>Managing Water, Shaping Risk: Irrigation Water Management Practices and Producers' Perceptions of Future Climate and Water Risks</i>	<i>Gertrude Dotse Bampoe</i>
Session 42 (La Duquesa)	Water Quality Session IV (Haylee Ferguson, University of Tennessee)	
12:30 PM	<i>Winter Wheat as a Cover Crop in Corn-Soybean Systems for Nutrient Management of Leached and Plant-Available Soil Water</i>	<i>Julianna Moraino</i>
12:45 PM	<i>Nitrogen and Organics Removal in Support of Direct Potable Reuse: Process Optimization Insights from Pretreatment to Advanced Treatment</i>	<i>Lisa Tomenendal</i>
1:00 PM	<i>Is it safe to swim? Human Health Risks in Baffin Bay, Texas</i>	<i>Valeria Ruvalcaba</i>
1:15 PM	<i>Providing Clarity to the Impairment of Urbanized Streams through Microbiome-Scale Biomarker Analysis</i>	<i>Clifford Swanson</i>
1:30 PM	<i>Gauging Septic Owners' Willingness to Accept Solutions for Septic Performance, Sewer Connection, and Water Quality Protection</i>	<i>Piper Monk</i>

1:45 PM - 2:05 PM Break

2:05 - 3:20 PM

Concurrent Technical Sessions X (75 minutes) (Moderator)		
Session 43 (La Corona)	Agriculture and Water Use (Nithya Rajan, Texas A&M AgriLife Research)	
2:05 PM	<i>The Water Squeeze: Agriculture Under Pressure in the American West</i>	<i>Alma Cortes Selva</i>
2:20 PM	<i>Precision Without Complexity: Popularizing Crop Water Use Estimation for Global Agriculture</i>	<i>Giovanni Piccinni</i>
2:35 PM	<i>Yield Response of Different Corn Hybrids to Limited Irrigation in the Central High Plains</i>	<i>Macie McPeak</i>
2:50 PM	<i>Resilience of Cotton Production to Late Planting and Water Stress: Implications of Cultivar Choice and Plant Population Density</i>	<i>Farzam Moghbel</i>
3:05 PM	<i>Increased production of strawberries in the US South-Central using indoor growing operations</i>	<i>Nathan Howell</i>
Session 44 (La Condesa)	Water Pollution and Community Engagement (Valeria Ruvalcaba, University of Texas Health Science Center at Houston (UTHealth))	

2:05 PM	<i>Current and Historic Levels of Persistent (PAHs, PCBs) and Emerging Pollutant (Nano-microplastics or NMPs) Body-Burdens in Oysters and Fish from Galveston Bay</i>	<i>Asif Mortuza</i>
2:20 PM	<i>Nano- and microplastics in coastal ecosystems: sediment to seafood</i>	<i>Karl Kaiser</i>
2:35 PM	<i>Comparative Study of In-Situ and Remote Sensing Data for Measuring Chlorophyll-a and Sea Surface Temperature as Eutrophication Indicators in Effluent-Receiving Coastal Waters of Puerto Rico</i>	<i>Maria del Alma Concepcion-Rodriguez</i>
2:50 PM	<i>Community-Engaged Assessment of Arsenic Exposure from Drinking Water in South Texas: The South Texas Arsenic Research Project</i>	<i>Taehyun Roh</i>
3:05 PM	<i>Evolving Outreach Strategies for Surface Water Quality Education and Landowners in Texas</i>	<i>Leanne Wiley</i>
Session 45 (La Reina)	Water Management and Ecology in Urban Waters (Thomas Dodson, Texas A&M University)	
2:05 PM	<i>Environmental Correlates and Ecological Consequences for Long-Term Fish Assemblage Change in an Urbanising and Regulated River Basin</i>	<i>Josh Perkin</i>
2:20 PM	<i>Temperature variation acts with other environmental factors to structure fish assemblages and seasonal variation in two contrasting rivers</i>	<i>Thomas Dodson</i>
2:35 PM	<i>Aquatic Connectivity Assessment Activities in the San Antonio River Basin</i>	<i>Caille Marshall</i>
2:50 PM	<i>Fish passage across anthropogenic structures occurs under baseflow conditions in a restored but serially fragmented ecosystem</i>	<i>Jacob Barrett</i>
3:05 PM	<i>Using field, flume and modeling studies to support the first freshwater mussel reintroduction in Texas</i>	<i>Megan DiNicola</i>
Session 46 (La Duquesa)	Modeling II (Seonggyu Park, Texas Tech University)	
2:05 PM	<i>Proof of Concept for State-SMERGE: Preliminary Results</i>	<i>Ken Tobin</i>
2:20 PM	<i>A QGIS-Based Workflow for Coupling SWAT+ and MODFLOW to Support Scalable and Reproducible Groundwater Assessment</i>	<i>Zaichen Xiang</i>
2:35 PM	<i>Evaluating Impacts of Cropping Systems on Groundwater Conservation Strategies in the Ogallala Aquifer</i>	<i>Sumon Datta</i>
2:50 PM	<i>Artificial Intelligence to Assist Small Water Treatment Plant Operations</i>	<i>Jeff Sadler</i>
3:05 PM	<i>Extending Multi-Basin Datasets for Streamflow Predictions using LSTM</i>	<i>Jeff Sadler</i>

Welcome Reception and Poster Session, Monday June 8

Poster Presenters: **denotes student presenter in poster competition

**SWAT-Based Evaluation of Silvopasture Impacts on Hydrology and Water Quality in a HUC-8 Watershed - Gafar Agunbiade, Clemson University

**Cadmium Uptake by Maize Grown with Microplastics and Their Effects on Soil Water Content and Grain Quality - Reshma Antony, Kansas State University

**Water Use Efficiency in the Livestock Industry - Mahmoud Bairouti, North Carolina Agricultural and Technical State University

**Effects of Biochar on the Hydraulic Properties of Clay Loam - Erica Bempong, West Texas A&M University

CUAHSI: Advancing Water Science Through Collaboration, Infrastructure, and Education - Emily Clark, CUAHSI

**A Machine Learning Surrogate for Rapid Compound Flood Prediction Under Various Storm Events, Tides, and Wind Conditions in the Nueces River Delta - Marissa Del Bosque, Texas A&M University-Kingsville

**Comparative Assessment of SWAT+ and LSTM for Streamflow Simulation in the Rocky River Watershed, North Carolina - Sanjib Kumar Dey Sarker Chayan, North Carolina A&T State University

**Spatial Analysis of Salt and Nitrogen (Ammonia and Nitrate) Concentrations from Northeastern Maryland to Southeastern Pennsylvania: Determining the Effects of Saltwater Intrusion and Road Salt - Olivia Francisco, University of Delaware Water Resources Center

**UAV-Based Remote Sensing and Artificial Intelligence for Monitoring Water-Driven and Environmental Stressors in Citrus Orchards - Rolando Garcia, Texas A&M University-Kingsville (Graduate Researcher); NSF NRT TREAWS Program (Trainee)

**Optimizing Zinc and Copper Recovery from Swine Wastewater - Jasmine Gibson, North Carolina A&T State University

**Impacts of Concentrated Flow Path Management Strategies on Crop Yield, Soil Loss, and Nutrient Transport in Southern Illinois - Abigail Hoeft, Southern Illinois University

Virus Fate and Transport in Saturated and Unsaturated Groundwater Systems: A Systematic Synthesis - Muhammad Yousuf Jat Baloch, Shandong University, Qingdao, China

Spatiotemporal Evolution of Fluoride and Nitrate Contamination in Multi-Aquifer Systems of Northeast China - Muhammad Yousuf Jat Baloch, Shandong University, Qingdao, China

Arsenic Removal from Groundwater using Iron Pyrite: Adsorption Mechanisms and Controlling Factors - Muhammad Yousuf Jat Baloch, Shandong University, Qingdao, China

Sewage Sludge Application in Agriculture and Implications for Soil-Groundwater Systems - Muhammad Yousuf Jat Baloch, Shandong University, Qingdao, China

**Early Flooding Detection System using Artificial Intelligence and Machine Learning - Jamilee Juarez, Texas A&M University - Kingsville

**Assessing the Performance of Water and Sediment Control Basins (WASCoBs) on Sediment and Nutrient Trapping from Agricultural Watershed, and Water Quality Enhancement in Southern Illinois - Durga Kandel, Southern Illinois University, Carbondale

**Cover Crops, Tillage and Legume Cover Crop Termination Timing Effects on the Nutrient Loss Reduction from Southern Illinois Corn and Soy Rotations - Taranpreet Kaur, Southern Illinois University

**Characterizing Risk from Emerging Contaminants to Montana's Public Water Supplies - Nicklas Kiekover, Montana State University

Riparian Vegetation Communities along a Longitudinal Gradient on the Guadalupe River Four Months after a Large Flood Event - Brian Laub, The University of Texas at San Antonio

**Watershed Communities and Complex Problem Solving; Rethinking Collaboration Building and Community Engagement through Multicultural Sense Making and Service-First Research - Evan Leacox, Washington State University

****Hydrologic Impacts of Urbanization on Streamflow Dynamics in Dallas, Texas Watersheds - Melodie Malithong, Southern Methodist University**

****Social Acceptance of Solar Farms in Texas - Audrey McCrary, Texas Water Resources Institute**

Advancing Irrigation Water Salinity Management for Sustainable Corn Production in Kansas - Farzam Moghbel, Kansas State University

****Household Drinking Water Contaminants and Toxicological Risk in US-Mexico Border Colonias: A Community-Engaged Assessment - Kayla Morales, Texas A&M University**

****SWAT+MODFLOW Modeling for Estimating Agricultural Pumping, Groundwater Head, and Land Subsidence in Arid Regions - Reza Morovati, Colorado State University**

Effect of Deficit Irrigation Regimes on Soil Moisture, Yield and Water Use Efficiency in Semi-Arid Cotton Production Systems - Hope Njuki Nakabuye, Texas A&M AgriLife Research

****Characterization of Atrazine Transport in Recharge-Zone Media from the Carrizo Aquifer Using Laboratory Column Experiments - Onyekachi Ofojioha, Texas A&M University San Antonio**

Applying a Multisector Scenario Framework to Evaluate Past and Future Public Surface Water Supply Infrastructure Strategies in Texas - Ifeoma Perpetua Okoye, Baylor University

A Descriptive Analysis of Residential Water Conservation Intentions across Gender and Housing Contexts - Millicent Oyugi, Texas Water Resource Institute

Assessing Hydrological Impacts of Purified Produced Water Reuse in the Pecos River Basin Using SWAT+ gwflow - Seonggyu Park, Texas Tech University

****Computational and Decision Challenges in Watershed Management: A Systematic Review of Modeling, AI, and Optimization Approaches - Hoda Razavi, Michigan State University**

Geomorphic, Climatic, and Decadal-Scale Temporal Patterns of Nitrogen in Boreal Alaskan Streams - Caleb Robbins, Baylor University

****Fire on the Plains: How Wildfire Reshapes Hydrology Across a Forest–Prairie Mosaic - Sophie Roberts, Oklahoma State University**

****Advancing Irrigation Education in the Mississippi Delta: Three Years of the Mississippi Master Irrigator Program - Dillon Russell, Mississippi State University**

****Comparative Uncertainty Quantification in Deep Neural Networks for Flood Forecasting - Mostafa Saberian, Clemson University**

****Integrating Satellite Data and Machine Learning for Field Scale Real Time Soil Moisture Monitoring - Joy Brato Shil, Oklahoma State University**

Per- and Polyfluoroalkyl Substances (PFAS) in Montana Private Wells - W. Adam Sigler, Montana State University

****Identifying Outdoor Watering Events with High Frequency Metering Data to Assess Residential Watering Consumption - Carson Slater, Baylor University**

****Estimation of Sediment Loadings in the Nueces River, and the Corpus Christi and Nueces Bays, Texas - Omar Talafha, Texas A&M University-Kingsville**

****Predicting Groundwater Contamination Risk in Post-Quarry Karst: Geospatial Scenario Analysis for the Edwards Aquifer Recharge Zone - Kaitlyn Tran, Austin Community College**

****Forever Chemicals on the Move: Organic Matter Regulation of PFAS Behavior in Coastal Transition Zones - Alyssa Wentzel, Texas A&M University - Kingsville**

Public Awareness and Perceptions of Smart Water Infrastructure in Texas Metropolitan Statistical Areas - Euijin Yang, Sam Houston State University

Multivariate Assessment of HAB Risk Across Three Midwestern U.S. Reservoirs - Nileshwari Yewle, Purdue University