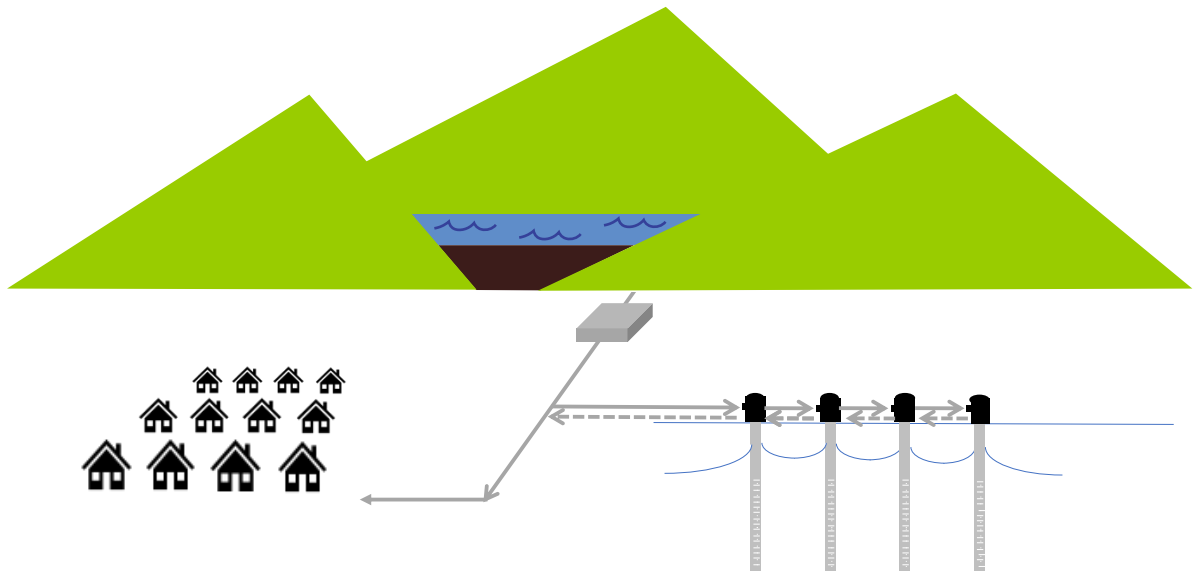


# Subsurface Water Storage Symposium *2024*

*February 22-23, 2024*

Spur Campus: Confluence Theater, Hydro Building  
4777 National Western Dr., Denver, Colorado 80216



This Symposium will explore subsurface water storage as a synergistic complement to existing surface water supplies. Our vision is to advance innovative solutions to emerging water supply and environmental challenges. Leaders from academia, government, and industry will explore policy, emerging technologies, and challenges associated with subsurface water storage. During the second day (morning) discussions we will focus on demonstrative projects, opportunities, and paths forward.

# Subsurface Water Storage Symposium *2024*

Thank You to Our Conference Sponsors!



# Thursday, February 22<sup>nd</sup>

<b>8:30–9:00</b>	<i>Pastries, Coffee, and Conversation</i>	
<b>9:00–9:10</b>	<i>Tom Sale</i> , Symposium Chair Colorado State University	Welcome, Opening Remarks, Logistics, and Meeting Framework
<b><i>Emerging Opportunities, Needs, and Policy:</i></b> Moderator Tom Sale, Colorado State University		
<b>9:10–9:40</b>	<i>Michael Kiparsky</i> , Director Wheeler Water Institute, Center for Law, Energy & the Environment, University of California Berkley	Keynote Speech: Emerging Drivers, Innovation, and Opportunities
<b>Q&amp;A 9:40–9:50</b>		
<b>9:50–10:10</b>	<i>Kelly Romero-Heaney</i> , Governor Water Policy Advisor, Assistant Director for Water Policy Colorado Department of Natural Resources	Perspectives from the Colorado Governor’s Office
<b>10:10–10:30</b>	<i>Sarah Brucker</i> , Assistant State Engineer, Colorado Division of Water Resources, Colorado Department of Natural Resources	Projects, Permitting, Future
<b>10:30–10:45</b>	<i>Coffee Break</i>	
<b>10:45–11:05</b>	<i>Lauren Ris</i> , Director Colorado Water Conservation Board	Colorado Water Conservation Board Opportunities
<b>11:05–11:25</b>	<i>Douglas Minter</i> , USEPA	Underground Injection Control Rules
<b>11:25–11:45</b>	<i>David Robbins</i> , President & Co-Founder of Hill & Robbins P.C.	Legal Considerations for Subsurface Water Storage
<b>11:45–12:10</b>	<i>All Previous Speakers</i>	Panel Discussion
<b>12:10–1:00</b>	<i>Lunch - Provided</i>	
<b><i>Emerging Issues and Technologies:</i></b> Moderator Ryan Smith, Colorado State University		
<b>1:00–1:20</b>	<i>Courtney Hemenway</i> , Hemenway Groundwater Engineering	Opportunities with Walls and Horizontal Wells in Alluvium
<b>1:20–1:40</b>	<i>Nick Hemenway</i> , Baski, Inc.	Delivery Flow Control Valves Technology and Applications
<b>1:40–2:00</b>	<i>Bob Pritchard</i> , Joule Logix	ASR Power Generation Managing our Carbon Footprint
<b>2:00–2:20</b>	<i>Peter Barkman</i> , Colorado Geological Survey, Colorado School of Mines	Promising Hydrogeologic Settings in Colorado
<b>2:20–2:40</b>	<i>Jonathan Sharp</i> , Colorado School of Mines	Water Quality Challenges and Opportunities
<b>2:40–3:00</b>	Group Discussion	
<b>3:00–3:20</b>	<i>Coffee Break</i>	
<b><i>Emerging Issues and Technologies:</i></b> Moderator Jonathan Sharp, Colorado School of Mines		
<b>3:20–3:40</b>	<i>Tom Sale</i> , Colorado State University	Security of Stored Water – Water, Hydraulic Head, and Water Quality
<b>3:40–4:00</b>	<i>Ryan Smith</i> , Colorado State University	Overview of Geophysical Tools for Imaging Groundwater
<b>4:00–4:20</b>	<i>Jared Abraham</i> , Aqua Geo Frameworks	Airborne Electromagnetics: Insights on Recharge Projects in Nebraska & Colorado
<b>4:20–4:40</b>	<i>Burke Minsley</i> , USGS	Geophysics to Groundwater: Methods, Modeling, and Measurements to Inform Subsurface Properties
<b>4:40–5:00</b>	<i>Andy Parsekian</i> , University of Wyoming	Monitoring Recharge with Time-Lapse Geophysics
<b>5:00–7:00</b>	<i>Reception, Hors d’oeuvres, &amp; Cash Bar</i>	

# Friday, February 23<sup>rd</sup>

**8:30–9:00** *Pastries, Coffee, and Conversation*

**Projects:** Moderator Courtney Hemenway, Hemenway Groundwater Engineering

<b>9:00–9:20</b>	<i>Cleave Simpson</i> , Senator, Colorado General Assembly & General Manager, Rio Grande Water Conservation District	San Luis Valley – ASR and Recharge Spreading Basins
<b>9:20–9:40</b>	<i>Sam Calkins</i> , General Manager Centennial Water & Sanitation District <i>Rick McCloud</i> , Water Resource Manager	Updates on Highlands Ranch ASR Operations
<b>9:40–10:00</b>	<i>Erik Jorgensen</i> , SMWSA <i>Shaden Musleh</i> , Interra Inc.	Aquifer Storage and Recovery, from Local to Regional
<b>10:00–10:20</b>	<i>Sean Chambers</i> , Director of Water & Sewer Utilities City of Greeley	Terry Bison Ranch ASR
<b>10:20–10:40</b>	<i>Greg Johnson</i> , Water Resource Planning Manager Denver Water <i>Rachel Pence</i> , Water Resource Engineer	ASR as a Potential Complement to Existing Surface Water Infrastructure
<b>10:40–11:00</b>	<i>Gregg Eckhardt</i> , Senior Analyst San Antonio Water System	Insight from a Large-Scale ASR Project

**11:00–11:15** *Coffee Break*

**Closing Discussions:** Moderators Tom Sale, Ryan Smith, Jonathan Sharp, Courtney Hemenway

**11:15–12:00** High Points, Opportunities, Paths Forward  
Closing Remarks