Poster Session Program
66th Annual New Mexico Water Conference

Poster presenters will be available in a virtual poster hall. During each session, attendees have the opportunity to join virtual meetings with each presenter. To view presenter abstracts, poster uploads, and meet with presenters during the session time, click the linked poster titles below.

Part 1: Wednesday, Oct. 27, Poster Session Participants
8:30 to 10:00 am MT

(ordered alphabetically by presenter last name)

Mitigation of Harmful Algal Blooms using Modified Clay Municipal Wastewater for Irrigated Agriculture in Drylands: A Case of Middle Rio Grande in Southwest US

- Wijayalath Kodige Nimasha Abeykoon, New Mexico State University

Results From 18 Month Water Quality Monitoring of the Upper Pecos River, New Mexico

- Megan Begay, New Mexico Highlands University

Hydrogeochemical Analysis of Springs in the Cibola National Forest: Implications for Springs/Wetlands Sustainability & Geochemical Response to Forest Fire

- Naomi Delay, University of New Mexico

Advanced Membrane Desalination Technology for Navajo Nation Groundwater Remediation

- Bonnie Frey, New Mexico Tech

Techno-Economic Analysis to Determine Cost of Atmospheric Water Harvesting Technologies

- Natalie Gayoso, University of New Mexico

Flow Connectivity and Sediment Transport Modeling in Flashy Ephemeral Channel Networks

- Sandra Glasgo, New Mexico Tech
Sediment Transport Management in New Mexico’s Water Systems Using CFD Platform Flow 3-D Code

- **Saman Mostafazadeh-Fard**, New Mexico State University

**Bridging the gap in the data revolution: Leveraging artificial intelligence to estimate nitrate uptake in fluvial systems**

- **Justin Nichols**, University of New Mexico

**Municipal Wastewater for Irrigated Agriculture in Drylands: A Case of Middle Rio Grande in Southwest US**

- **Tosin Olofinsao**, University of New Mexico

**Resilient Water Supply Needs Resilient Power**

- **Russell Rodke**, Santa Fe Community College

**Four years of sediment transport monitoring in a Central New Mexico arroyo**

- **Kyle Stark**, New Mexico Tech

**Groundwater flow model investigation of the vulnerability of water resources at Chaco Culture National Historical Park related to oil and natural gas drilling**

- **Zach Shephard**, U.S. Geological Survey

**Water insecurity and beverage consumption among adult residents of colonias in southwestern New Mexico: Results from a pilot study**

- **Hailey Taylor**, New Mexico State University

**Microbial Source Tracking and Escherichia coli Monitoring in the Rio Grande in the South Valley, Albuquerque, New Mexico**

- **Rebecca Travis**, U.S. Geological Survey NMWSC
Part 2: Thursday, Oct. 28, Poster Session Participants
8:30 to 10:00 am MT

(ordered alphabetically by presenter last name)

**Wastewater Treatment Using Char Derived from Hydrothermal Liquefaction of Food Waste**

- **Hengameh Bayat**, New Mexico State University

**Status Report: A Comparative Overview of Legal Frameworks and Conflict Resolution Mechanisms in the Nile and Rio Grande Basins**

- **Steve Earsom**, University of New Mexico

**Long-term drying trends in the American Southwest; opportunities for water reuse in Navajo agriculture.**

- **Shazia Hakim**, Diné College

**Geographically Scalar Climatic Entities and Climatic Climate Change: An Ontologically Realist Approach to Climate Change**

- **Charles Jackson**, New Mexico State University

**Exploring the Benefits of Brackish Groundwater on Native Halophytes for Human Health**

- **Alba Lucker**, New Mexico State University

**Estimating occurrence and detectability of Rio Grande Cooter (Pseudemys gorzugi) on the Pecos River in New Mexico and Texas**

- **Laramie Mahan**, Eastern New Mexico University

**Response of Ephemeroptera, Plecoptera, and Trichoptera (EPT) abundance to stream restoration employing beaver dam analogs**

- **Laurel Martinez**, U.S. Forest Service
Seismic analysis of monsoon flood events in an ephemeral channel in central New Mexico

- **Mitchell McLaughlin**, New Mexico Tech

Membrane Fouling Mitigation for Municipal Wastewater Reclamation Using Innovative Electromagnetic Field (EMF) and Reverse Osmosis Membranes (RO)

- **Juliano Penteado de Almeida**, New Mexico State University

Efficient Groundwater Flow Simulation Oriented to the Joint Modeling of the Surface Water and Groundwater

- **Kevin Perez**, New Mexico Water Resources Research Institute

Estimating recharge of pecan fields under different irrigation systems

- **Jorge Preciado**, New Mexico Water Resources Research Institute

Nesting Ecology of The Rio Grande Cooter (Pseudemys gorzugi) on the Black River, New Mexico

- **Francisco Rodriguez**, Eastern New Mexico University

SFCC-CEA: Aquaponic Advances in Santa Fe

- **Charlie Shultz**, Santa Fe Community College

Managing natural systems to conserve water, reduce sediment transport, and improve habitat in riparian zones

- **Juan Solis**, New Mexico State University, Civil Engineering

Quantifying groundwater to surface water exchanges in the Belen reach of the MRGCD

- **Ethan Williams**, New Mexico Tech
Pre-Recorded Video Presentations

**Soil Water Dynamics, Effective Rooting Depth, and Crop Water Use of Potato under Precision Irrigation Water Management**

- *Koffi Djaman*, University of New Mexico

**Environmental Evaluation of Natural Radioactivity Levels and Associated Radiation Hazards in Groundwater around WIPP Site**

- *Rong He*, New Mexico State University

**The Ecological Effects of Dams**

- *Jaimie Ritchie*, University of New Mexico

**Cryptic micro-snail Assiminea pecos - survey methods and habitat**

- *Rhane Yarbrough*, New Mexico State University