

[Subscribe](#)

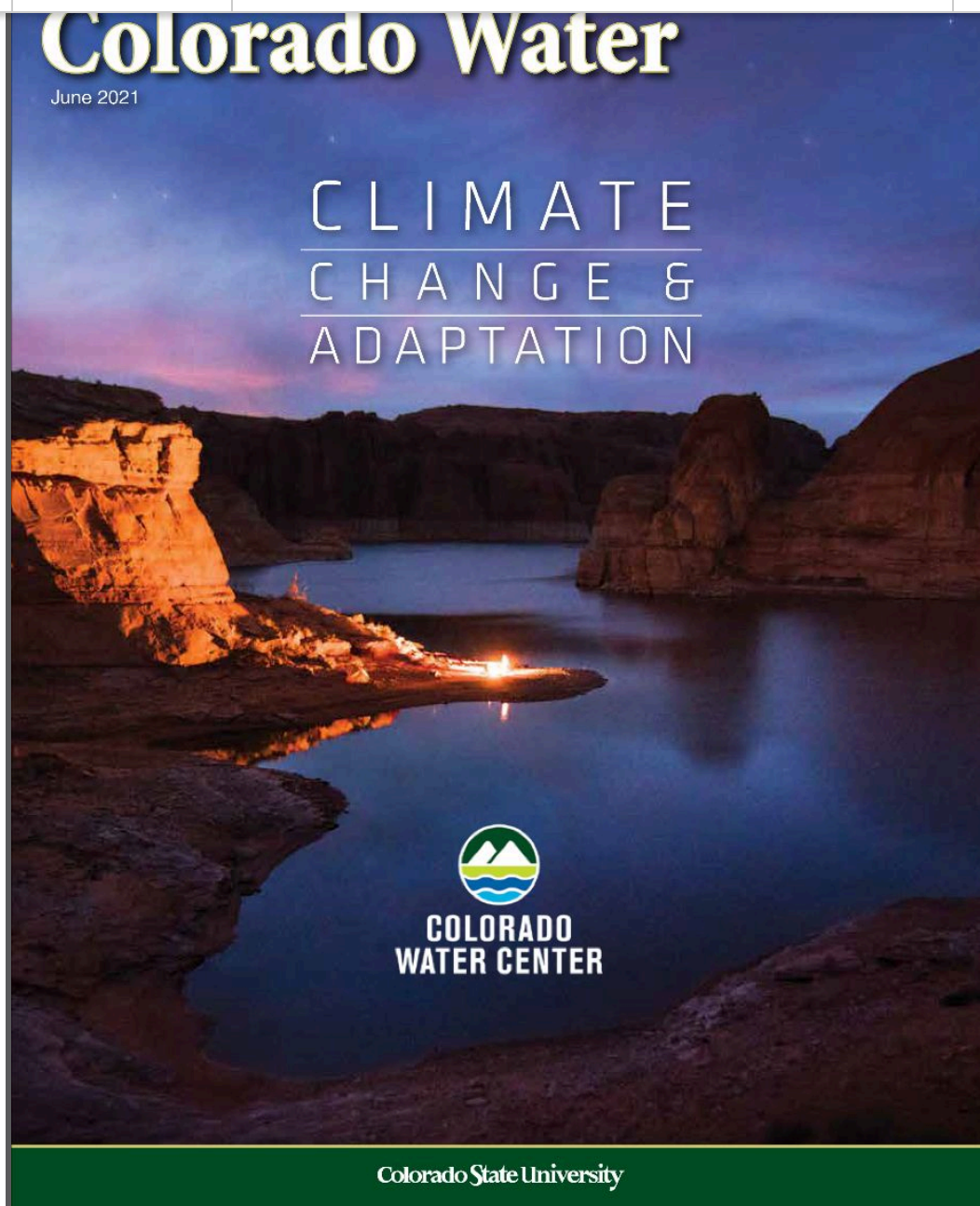
[Past Issues](#)

[Translate](#) ▼



June 2021

New Edition of *Colorado Water* Published

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

Colorado Water
June 2021
Climate Change & Adaptation

Climate change and adaptation frame discussions in the latest edition of our Colorado Water publication. Read insights from experts on current climate conditions, the 2000-2021 “Millennium Drought”, future estimations of water flows, collaborative partnerships, and how our water managers plan to adapt to fundamental water resource changes. Scientists, leaders, and students from around the state share how the latest research findings impact our communities.

2021 CUAHSI Biennial Colloquium

July 19 - 21, 2021



Hosted by the Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI)

Diverse fields of water science come together to discuss developments in the hydrology sector of the Earth Sciences. Researchers present their latest findings and developments, propose community workshops, and interact with colleagues from all over the country. Participants will have a unique opportunity to discuss ideas, network with colleagues, and build new relationships in a casual environment. Students are especially encouraged to attend.

Four States Irrigation Council 2021 Summer Tour



July 29
& July 30

Loveland,
Colorado

Registration
\$125

Day 1 will include visits to areas of Northern Colorado impacted by the region's wildfires, and cover their impacts on water quality, infrastructure and ag operations.

Day 2 will examine ongoing infrastructure projects, complexities of the region's water operations, and research and innovative approaches to meet future demands.



We hope you
can join us!

Be sure to visit www.4-states-irrigation.org/summer-tour.html to see agenda details as they're finalized, get registered and learn more about hotel information.

Four States Irrigation Council Summer Tour

The FSIC is a forum for irrigators, irrigation and water districts, ditch companies, and associated government agencies. On the tour visit areas impacted by Colorado's historic

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

2021 CSU Spur Water in the West Symposium

The fourth annual Water in the West Symposium is scheduled in person at the Seawell Ballroom in downtown Denver, with virtual options available. Reach out to waterinthewest@colostate.edu with any questions, or if you are interested in sponsoring the 2021 Symposium.



Colorado Ag Water Summit

December 9-10, 2021

Headwaters Center –
Fraser, CO

coagwater.org

Save the date!

Community-enabled Lifecycle Analysis of Stormwater Infrastructure Costs (CLASIC)

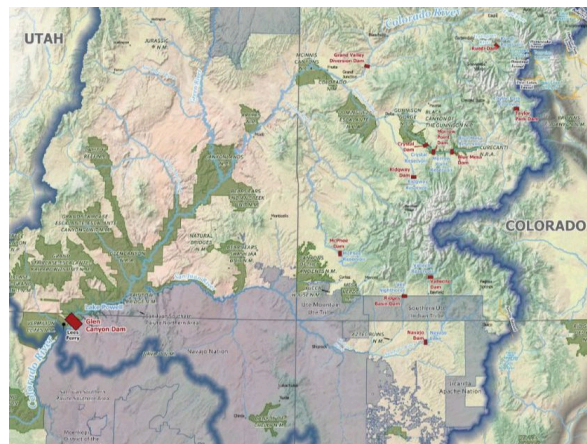


The CLASIC tool is a screening tool utilizing a lifecycle cost framework to support the feasibility and planning of stormwater infrastructure.

CLASIC helps stormwater professionals, community planners, and local decision-makers understand and weigh the estimated costs, reductions in runoff and pollutant loads, climate and land-use projections, and co-benefits of various planning scenarios.

This tool was prepared by our partners at CSU's One Water Solutions Institute and was sponsored by The Water Research Foundation.

New Comprehensive Map of the Colorado River Basin



A recently released comprehensive, peer-reviewed map of the Colorado River Basin showcases the area's geography and hydrography. The map includes a narrative history of the Basin and highlights crucial concerns facing the region, which supports over 40 million people across the U.S. and Mexico and irrigates 4.5 million acres of agriculture. This updated resource addresses inconsistencies found among current maps of the region and provides Basin stakeholders a more accurate tool for sustainable planning

The map was developed by the Babbitt Center for Land and Water Policy at the Lincoln Institute of Land Policy. The map is free and available for download or as a hard copy.

Spotlights Part 2

The People Keeping Colorado State University Running

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

CSU's COVID Wastewater Sampling Team



In May we featured half of CSU's Wastewater Epidemiology Sampling Team who tracked the spread of COVID at CSU. This month we highlight the rest of the team.

Recap:

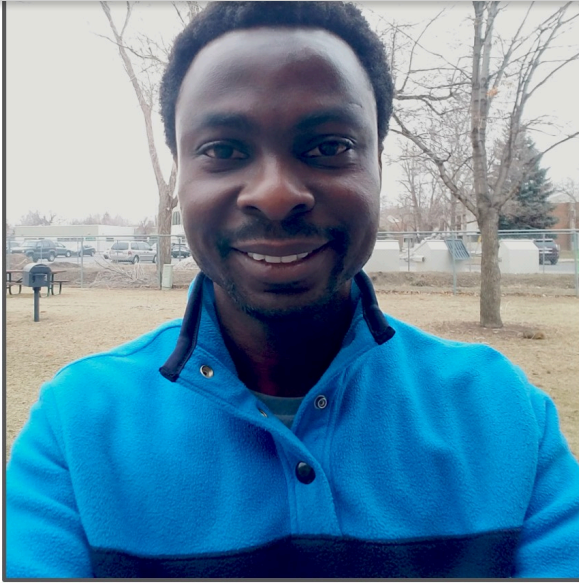
[Read the summary of challenges the team overcame](#) and the science behind wastewater epidemiology that helped keep campus open.

May Faculty Spotlight: [Dr. Susan De Long](#)

May Student Spotlights: [Madison Jara](#), [Alan Martuch](#), and [Jack Miera](#).



Photos courtesy of John Eisele / CSU Photography.

[Subscribe](#)[Past Issues](#)[Translate ▼](#)**Temitope Adeniji**

Master's Student, Department of
Electrical and Computer Engineering;
Sampling Technician, CSU COVID
Wastewater Sampling Team

Temitope Adeniji

Since elementary school Temitope (Tope) Adeniji was driven to become an electrical engineer. Growing up in Nigeria, he did not have access to many electronics nor a mentor to guide him. But he says, "I loved tinkering. I would take apart discarded electronics and wristwatches to see what was inside." His determination pushed him throughout his schooling in Nigeria, and now it has led him to CSU, where he is earning his master's degree in electrical engineering.

[Read more about Adeniji's intuitive engineering skills.](#)

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

Abbie Modafferi

In Abbie Modafferi's home state of New York, there is a concentrated population of refugees from Burma and Nepal. In these cultures, it is common to catch and eat fish as a large part of their diet. Typically, fish is considered a healthy protein, but fish can accumulate harmful amounts of heavy metals. Local fishing areas displayed signs warning not to eat the fish, unfortunately only in English. Modafferi worked on a project with the New York Department of Health to create signage in dialects understandable to the immigrant residents.

[Read more about Modafferi's experience in toxicology and her perspective of being on a women-led team.](#)



Abbie Modafferi

Master's Graduate, Department of Environmental and Radiological Health Sciences



Nick Mohammed

Master's Student, Department of Civil and Environmental Engineering; Sampling Technician, CSU COVID Wastewater Sampling Team

Student Spotlight Nick Mohammed

In Maracas Valley, Trinidad, a new quarry altered the state of the local watershed and the path Nick Mohammed would take for his education and career. At around ten years old, Mohammed's hometown witnessed a dramatic transition of the once pristine Maracas River. "They developed a quarry upstream from where I lived. The river started to get very polluted. It got really muddy, you didn't see fish there anymore, you couldn't swim there anymore, it was too unsafe for that," he says about his experience.

[Read more about Mohammed's work modeling sewer lines.](#)

Staff Spotlight

Susanne Cordery

While most people take cover inside when it rains, Susanne Cordery grabs her umbrella and heads out to watch where the water flows and puddles. “My job is making sure that CSU complies with environmental regulations,” and though there is a lot of paperwork, she says, “I like to get out and do inspections, especially stormwater inspections. When you’re out in the rain, you get to see the stormwater features that we designed functioning. And I find that gratifying.”

“Every time we pave paradise, we need to think about stormwater detention.”



Susanne Cordery

Environmental Engineer, Facilities
Management

Pavement is an impervious surface, and rainwater does not absorb or filter through cement the way it does in grass. Runoff water increases and accelerates on pavement and can result in more pollution. CSU has 72 stormwater control measures across all campuses, specifically designed to treat pollutants before the stormwater moves to underground pipes. For example, water from the parking garage is funneled to bioswales which are large ditches with specialized organic soil and plants to filter out pollutants.

Once stormwater enters the pipes, it flows directly to the rivers. Cordery warns of the importance of not using the drains on the streets to pour garbage or other household liquids. Her team applies stickers on the drains that state, “Protect our rivers, No dumping.”

Beyond stormwater, Cordery manages compliance with some of CSU’s other utilities. She describes CSU as a city and an industrial complex that must comply with regulations for air emissions, drinking water, and stormwater, among many other environmental monitoring activities.

“If you look at a utility map of main campus, it’s spaghetti,” Cordery describes the

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

stormwater, drinking water, and wastewater pipes, which is how she became involved with the COVID wastewater monitoring program.

Cordery contributed with her knowledge of the sanitary sewer system, which transports wastewater from CSU to one of two wastewater treatment plants in Fort Collins. She answered logistical questions during the project's initial phase of where to access the sewers, how to use and maintain samplers, and safety issues of accessing the sewers. Now, well into the project, she is still highly involved.

“Every day something breaks or falls in a manhole, needs replacing, gets stuck, or a manhole is covered in snow and needs to be plowed,” she explains. She comments that everything changed with the pandemic; when the facilities management department began supporting the project, everyone pitched in.

When Cordery is not thinking about stormwater at CSU, she enjoys recreating outdoors. “In the winter I like to ski, and in the summer I like to fly fish on the river. So I am concerned about keeping rivers clean.”

Upcoming Event Highlights

[June 16: Northern Colorado Fireshed Collaborative Spring Webinar Series](#)

The webinar series introduces the [Northern Colorado Fireshed Collaborative](#) (NCFC) and their work to make Northern Colorado forests resilient, protect communities, and keep our water supplies reliable. This webinar series is free and open to anyone interested in the health of their forested watersheds and communities.

[June 26: Playin' On the Poudre: A Family River Experience](#)

The Coalition for the Poudre River Watershed and the Town of Windsor host an afternoon of fun on the Poudre River at Eastman Park. Bring your river tubes for a lazy float, enjoy educational activities, and learn about the importance of the Poudre River.

[July 19 - 21: AWRA 2021 Virtual Summer Conference: Connecting Land & Water for Healthy Communities](#)

Stakeholders from organizations and professions across multiple disciplines address the design, integration, and implementation of the programs and research necessary to improve the connection of land and water planning and policy.

[September 25: Poudre Pour](#)

The Poudre Heritage Alliance hosts an educational celebration of the Cache la Poudre River. Enjoy craft beer, food, live music, kids' activities, and so much more.

[Subscribe](#)

[Past Issues](#)

[Translate](#) ▼

WORK IN WATER

Employment and Internships

Explore opportunities for a water-related career in diverse sectors from entry-level to expert.

[<< COMMUNITY JOB BOARD](#)



KEEP UP WITH CoWC

What's New

We highlight the latest research, scholarships, and other activities sponsored by the Colorado Water Center.

[CoWC UPDATES >>](#)

[Get updates on Colorado's water legislation](#)

[Download the complete issue](#)

Stay connected with the Colorado Water Center! We share even more water-related news, events, educational opportunities, and more on these channels.

[Subscribe](#)

[Past Issues](#)

[Translate ▼](#)

Copyright © 2019 Colorado Water Center, All rights reserved.

Our mailing address is:

E102 Engineering | 1033 Campus Delivery
Fort Collins, CO 80523-1033

Want to change how you receive these emails?
You can update your preferences or unsubscribe from this list.