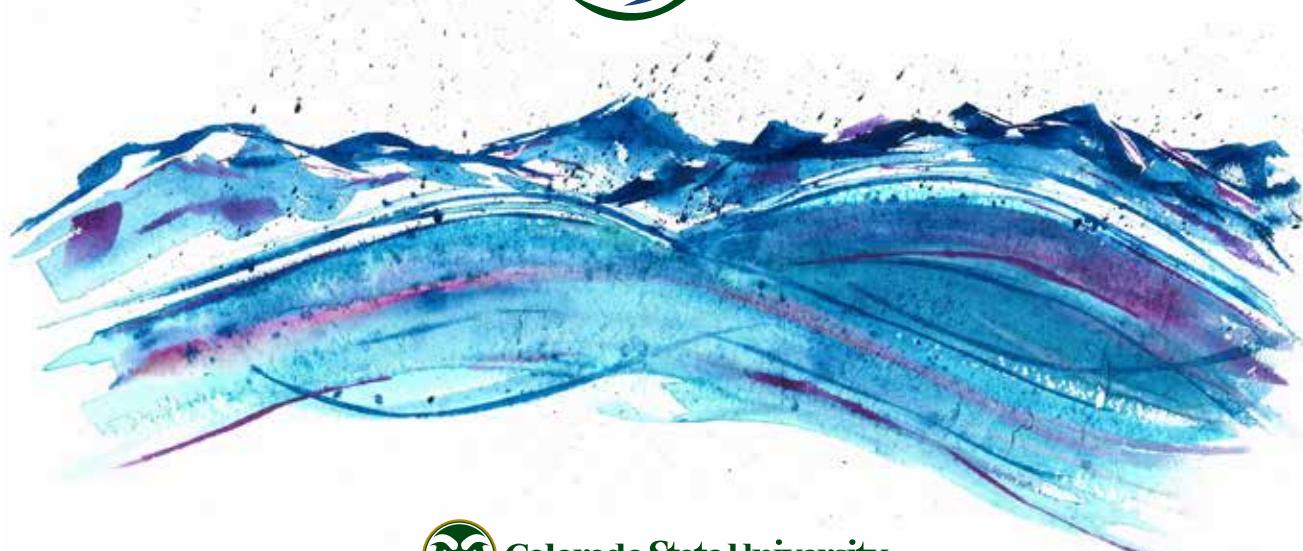


Water Research, Education, and Engagement at Colorado State University



Colorado State University



*The CSU Water Center catalyzes
excellence in water research, teaching,
and engagement by fostering
interdisciplinary collaboration and
creative scholarship.*

www.watercenter.colostate.edu

Water at Colorado State University

For more than 125 years, Colorado State University has been a world leader in the water arena. Our faculty have discovered innovative ways to store, deliver, and re-use water. CSU shares its knowledge with the world, educating students and some of the most influential water leaders on the planet. As one of the world's leading centers of water expertise, CSU offers:

- Comprehensive water-research assets spanning all eight academic colleges
- Experience with complex water projects on every continent
- An innovative and entrepreneurial culture designed to put research to work for the benefit of society
- A commitment to international partnerships and preparing the next generation of water leaders

The University hosts over 50 departments that house more than 200 faculty and research scientists who apply their disciplines to water issues and problems. CSU faculty teach more than 100 water-related courses at the senior and graduate levels. In addition, CSU faculty and staff are engaged in solving water-resources problems across the



globe. CSU water experts are present in nearly 100 countries and on every continent and they have improved the lives of millions around the world through their work in water storage and distribution.

Special areas of research focus include: Water Engineering, Hydrology, Water Quality, Ecology, Urban Water, Irrigation, Policy, Human Dimensions, and Water Sustainability. 

Our History in Water

CSU can trace its commitment to water to 1883 when Professor Elwood Mead – the man for whom Lake Mead is named – arrived on campus and formulated plans to teach irrigation engineering. Mead's course in water resources was the first of its kind in the nation. Since then, CSU's reputation as a world leader in water research has continued to grow.

Other notable moments in CSU's water history:

- CSU launched its international water program in the 1950s, establishing graduate-level water programs at Pakistan's University of Peshawar. By 1959, CSU had worked to form what is now known as the Asian Institute of Technology.
- Ralph Parshall, irrigation engineer, developed the Parshall Flume in 1922. Still in wide use today, the Parshall Flume helps regulate water flow and promotes equitable distribution.
- The U.S. Department of Agriculture established the first hydraulics laboratory on campus in 1912. The lab was used to study and test plans for the Hoover, Grand Coulee, and Imperial dams, along with numerous other dams around the world.

- Maury Albertson joined the civil engineering faculty in 1947. Albertson went on to help draft the plan that became the basis for the Peace Corps, which has aided hundreds of water projects around the world.
- CSU's Watershed Science degree program was established in 1958, making it the first degree

program in the nation to train students in this area of study.

- The Colorado Water Institute was established at CSU in 1965. The institute facilitates cross-disciplinary study and research with institutions of higher education across Colorado. 



The CSU Water Center

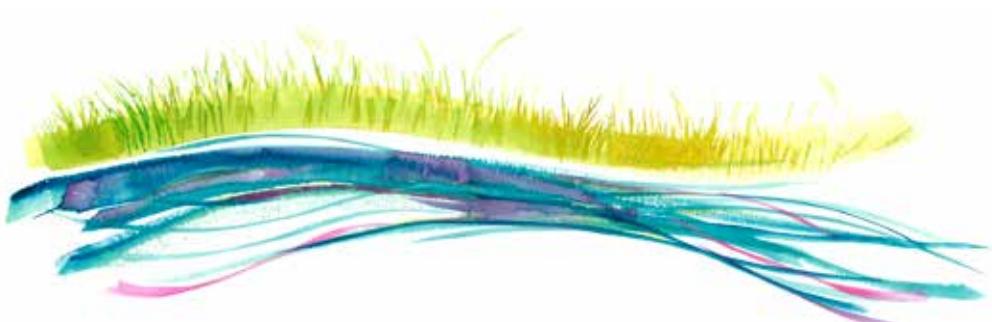
The CSU Water Center brings together a rich history in water-related education and research with diverse talent from educators and researchers interested in water resources.

The CSU Water Center's roots grew out of a collaborative and interdisciplinary endeavor between the Vice President of Research and the Colleges of Engineering and Natural Resources in 1994. During 2012, a faculty group was charged with developing a new vision for the Water Center with the aim to engage the CSU community in water resources research, education, and outreach.

The mission of the CSU Water Center is to catalyze excellence in water research, teaching, and engagement by fostering interdisciplinary collaboration and creative scholarship.

The CSU Water Center Executive Committee

The faculty-led Executive Committee represents a broad range of water expertise across campus. Please visit the CSU Water Center website [www.watercenter.colostate.edu](http://watercenter.colostate.edu) to learn more about the committee members.



Water Center Research Grants

Each year, the CSU Water Center announces its Request for Proposals to facilitate innovative research from individual faculty and multidisciplinary teams. In its first two years, the Center funded 17 projects that tapped expertise across disparate academic units by developing joint objectives that produce impactful results and outreach to stakeholders.

Please visit www.watercenter.colostate.edu to learn about our funded projects and opportunities.

"Colorado State University currently has a very strong and diverse group of faculty engaged in the compelling water problems of the twenty-first century. The CSU Water Center's goal is to help faculty and students increase the effectiveness and impact of their teaching, research and outreach."

- Reagan Waskom, CSU Water Center Executive Committee Chair

Water Education at CSU

CSU Water Minor

Colorado State University Water faculty have developed a Sustainable Water Interdisciplinary Minor designed to prepare students for careers in water management or graduate study in a water-related area. The program's interdisciplinary curriculum allows students to choose courses related to sociological, economic, ecological, biological, and physical aspects of water.

Water MOOC

Faculty members have joined together with the CSU Water Center, CSU Online Plus, and The Institute for Learning and Teaching to develop a massive open online course (MOOC) entitled, "Water, Civilization, and Nature – Addressing Water Challenges of the 21st Century." The objective of the course is to introduce a broad audience to water-related issues that are likely to influence world affairs during the 21st century and to describe innovative ways in which these issues are being addressed.

Enthusiasm among the students ran high, producing comments such as:



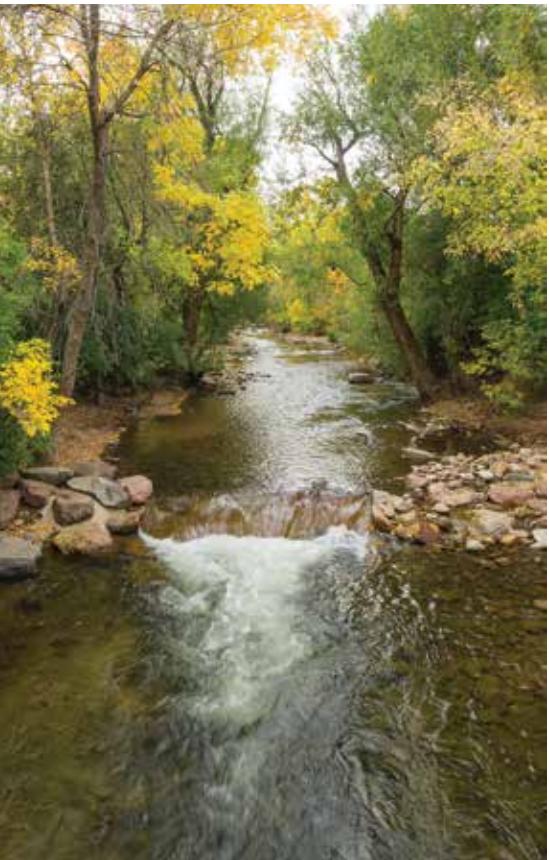
"I signed up for this course in the hopes that I might pick up a few tidbits of knowledge to help build my frame of reference on the subject and was delighted to find that the information you folks presented far and away exceeded my expectations."

Water-Related Degree Programs

CSU offers several water related degrees at the undergraduate and graduate levels. Please visit the CSU Water Center's website to learn more about the various programs

http://watercenter.colostate.edu/water_academics.shtml





Our Impact Internationally

CSU's water influence extends across the globe, making an impact on every continent and nearly 100 countries.

- For more than 25 years, CSU faculty partnered with the Egyptian government to support the nation's water delivery, agricultural irrigation, and water resources management. As a result, Egypt increased its yield of key crops, restructured its canal delivery system, and revolutionized the way farmers accessed water supplies.
- CSU maintains strategic partnerships with East China Normal University, China Agriculture University, Hunan University, and Northwest Agriculture and Forestry University through the CSU Confucius Institute. CSU has established broad ties with these universities that include collaborative programs in foreign language, the arts, business, engineering, and soil and crop sciences. As part of the agreement, students from all four universities study at CSU.
- CSU and Coca-Cola have joined together to sponsor students from around the world to

study and conduct research in CSU's water programs and apply their knowledge to create a sustainable future for communities around the globe. CSU and Coca-Cola launched the Water Scholars Program in 2012 by selecting one student from East China Normal University and Guizhou University. In 2013, CSU and Coca-Cola added one student from China Agriculture University and Anhui Agriculture University.

- CSU and Anhui Agricultural University in China created the Tea for Health Institute-International Research Center for Human Disease Prevention and Treatment. This program perfectly partners with CSU's innovative Crops for Health Program and the work of Dr. Henry Thompson.
- The CSU Water Center has established an International Water Work Group. This group is tasked with identifying opportunities for international collaboration and ways in which faculty can better organize their research and outreach activities related to international water work at CSU. 



Water-Related Research and Outreach at Colorado State University

College of Agricultural Sciences

www.agsci.colostate.edu

- Agricultural Experiment Station
- Center for Sustainable Integrated Pest Management
- Optimizing Agriculture's Water Footprint Initiative
- Western Center for Integrated Resource Management

College of Business

www.biz.colostate.edu

- Beverage Business Institute
- Center for the Advancement of Sustainable Enterprise
- Global Social and Sustainable Enterprise MBA

College of Engineering

www.engr.colostate.edu

- Center for Contaminant Hydrology
- CLEAN Center
- Colorado Climate Center
- Colorado Stormwater Center
- Cooperative Institute for Research in the Atmosphere (CIRA)
- Hydraulics Laboratory
- Urban Water Center

College of Health and Human Sciences

www.chhs.colostate.edu

- Food Science and Human Nutrition

College of Liberal Arts

www.libarts.colostate.edu

- Center for Public Deliberation
- Institute for Society, Landscape, & Ecosystem Change
- Public Lands History Center

Warner College of Natural Resources

www.warnercnr.colostate.edu

- Center for Collaborative Conservation
- Center for Environmental Management of Military Lands
- Center for Protected Area Management
- Colorado Forest Restoration Institute
- Environmental Learning Center
- GetWet Observatory and Science Park
- Larval Fish Lab
- Natural Resources Ecology Laboratory

College of Natural Sciences

www.natsci.colostate.edu

- College of Natural Sciences Education and Outreach Center
- Little Shop of Physics

College of Veterinary Medicine

and Biomedical Sciences

www.cvmbs.colostate.edu/ns

Other Water-Related Research and Outreach Programs, Institutes, Centers, and Agencies at Colorado State University

The Sustainable Bioenergy Development Center (SBDC)

<http://bioenergy.colostate.edu/research.php>

Center for Contaminant Hydrology

www.engr.colostate.edu/CCH

The Center for Multiscale Modeling of Atmospheric Processes (CMMAP)

www.cmmmap.org

Center for River & Stream Studies

www.colostate.edu/Orgs/CRSS

Colorado Water Institute

www.cwi.colostate.edu

Confucius Institute

<http://international.colostate.edu/cicsu>

CSU-CHILL National Weather Radar Facility

www.chill.colostate.edu/w/CSU_CHILL

CSU Extension Water Program

<http://waterquality.colostate.edu/>

Energy Institute

www.energyinstitute.colostate.edu

The Integrated Decision Support Group (IDS)

www.ids.colostate.edu

I-WATER/IGERT – National Science Foundation
<http://i-water.colostate.edu>

School of Global Environmental Sustainability (SoGES)
<http://sustainability.colostate.edu>

Water Resources Archives
www.lib.colostate.edu/archives/water

These and many other water-related programs, institutes, centers, and agencies are among the resources available through Colorado State University. Please contact the CSU Water Center for more information on how CSU can partner with you. 



Today, more than 200 water experts work across campus, performing life-changing research and passing along more than a century's worth of knowledge to the next generation of water professionals.

Stay in the loop with CSU Water Center news and activities on Facebook!

 www.facebook.com/CSUWaterCenter



Colorado State University

The CSU Water Center is located in
119 Johnson Hall, Colorado State University.

www.watercenter.colostate.edu