



FEATURE

Research team funded by CSU Water Center studies nanoparticles that may aid in oil recovery and fracking fluid tracking



Vivian Li, assistant professor in the Department of Design and Merchandising, and William Sanford, associate professor in the Department of Geosciences, are trying to find patterns in how certain nanoparticles move underground. If successful, they could train the nanoparticles to indicate when specific chemicals are present in the subsurface, including those found in underground water deposits. These modified "smart" nanoparticles, known as tracers, could sense high pH levels or the presence of hydraulic fracking chemicals. These tracers could also be used to improve the recovery of oil from reserves deep within the earth, which would allow scientists to increase the amount of oil that can be pumped, saving time and money on drilling new wells.

To read the full story, click [here](#).

(Photo courtesy of *Today@Colorado State*.)

HIGHLIGHTS

GRAD 592 Interdisciplinary Water Resources Seminar

The Fall 2014 Theme for this seminar series is *Water, Climate & Extreme Events*. Students interested in taking the one-credit seminar should sign up for GRAD592, Water Resources Seminar, Section ID Number: 74006. The seminar will be held at 4:00 pm on Monday afternoons in Engineering E104. Students who have enrolled in GRAD592 in the past may also enroll for this offering.

For more information click [here](#).

Center for Collaborative Conservation Fall 2014 Seminar Discussion Series



This fall semester's bi-weekly Seminar Series focuses on the Poudre River and its watershed, its ecological needs, and how it is used to supply water for agriculture and urban needs. All seminars are held at 12:30-1:30 pm in LSC 372-374 unless otherwise noted. This series is brown bag and open to the public. Please feel free to bring your lunch.

For more information and to see the seminar schedule, click [here](#).

Public Meeting with Legislators: Participate in the Colorado Water Plan

September 17, 2014 | 1:00-4:00 pm | Fort Collins Senior Center | 1200 Raintree Drive

This meeting will give Colorado citizens the opportunity to weigh in on the Colorado Water Plan with several members of the Colorado legislature's Interim Water Resources Review Committee.

For more information, click [here](#).

Join the Colorado Foundation for Water Education's Water Educator Network

This network seeks to improve understanding of Colorado water issues by increasing the amount, quality, and effectiveness of water education. Local water educators will be provided with tools, trainings, and collaborations that are relevant to their work, easily accessible, and simple to implement.

For more information, click [here](#). To join the network, click [here](#).

UPCOMING EVENTS

Northern Water Tours

Northern Water is conducting full-day tours of the Colorado-Big Thompson and Windy Gap projects this summer. They are sponsoring two East Slope tours that highlight their conservation gardens, water operations, and proposed storage projects. The two West Slope tours travel through Rocky Mountain National Park to view the C-BT collection system and the Windy Gap Project.

Click [here](#) for tour dates and registration information.

2014 Water and Health Conference

Early Reg. Deadline: Aug 29, 2014 | Conference Dates: Oct 13-17, 2014 | Chapel Hill, NC

The 2014 Water and Health Conference: Where Science Meets Policy, organized by The Water Institute at UNC, considers drinking water supply, sanitation, hygiene and water resources in both the developing and developed worlds with a strong public health emphasis.

For more information, click [here](#).

RMSAWWA/RMWEA Joint Annual Conference

Conference Dates: September 7-10, 2014 | Albuquerque, NM

Sign up early to take advantage of the early registration discounts. There will also be a bike ride and a tram ride available for an additional fee.

For more information, click [here](#). To register, click [here](#).

2014 Water Education Summit

Summit Dates: September 8-10, 2014 | Asheville, NC

The 2014 Water Education Summit in Asheville, NC will focus on water resource challenges and ways to make a difference at the local level. Topics of discussion will include climate change, water resources management, ecosystem restoration and preservation, watershed planning, and educational programs for elected officials and decision-makers.

For more information, click [here](#).

Call for Abstracts - World Environmental and Water Resources Conference 2015

Submission Deadline: Sept 10, 2014 | Student Competition Submission Deadline: Oct 10, 2014

This year's theme is "Floods, Droughts, and Ecosystems: Managing our Resources Despite Growing Demand and Diminishing Funds."

For more information on abstract submission, click [here](#).

2014 Transbasin Diversion Tour

September 22-23, 2014 | Colorado Springs, CO

Join the Colorado Foundation for Water Education on an adventure through the headwaters of the Arkansas River Basin and explore the power, legacy, benefits and impacts of transbasin diversion projects.

For more information, click [here](#). Registration fees increase September 1.

Call for Abstracts - 2015 Watershed Management Conference

Submission Deadline: October 1, 2014

EWRI is especially seeking papers that present and discuss the power of the Watershed to restore healthy lifestyles, provide quality living, support vibrant economies and offer sanctuary when needed. Additional topics of particular interest may include - water resources and reservoir management, forestry, soil science, agricultural and biological engineering and fisheries.

For more information, click [here](#).

2014 Sustaining Colorado Watersheds Conference

Conference Dates: October 7-9, 2014 | Avon, CO

This year's conference, *Come Hell or High Water!*, will explore the spirit of community resiliency in the wake of the 2013 floods, wildfires, and other risks to our watersheds.

For more information and to register, click [here](#).

Water for Food Global Conference

October 19-22, 2014 | Seattle, WA

The conference, hosted by the Robert B. Daugherty Water for Food Institute at the University of Nebraska in association with the Bill & Melinda Gates Foundation, will bring together experts from around the world to explore how the data revolution can help address the pressing need for global water and food security. The conference will focus specifically on how

data can improve the productivity and sustainability of small and large farmers.

For more information, click [here](#).

2014 Upper Colorado River Basin Water Forum

Forum Dates: November 5-6, 2014 | Colorado Mesa University | Grand Junction, CO

The 2014 conference, hosted by the Water Center at Colorado Mesa University, will create a forum for wide-ranging discussion looking toward a resilient water future in the Upper Colorado River Basin. Important issues for the conference include a growing population, shifting water needs, environmental issues and climatic changes.

For more information, click [here](#).

AWWA Water Quality Technology Conference

Conference Dates: November 16-20, 2014 | New Orleans, LA

This conference provides a practical forum for a wide range of water professionals to exchange the latest research and information.

Click [here](#) for more information and to register.

2nd International Ocean Research Conference

November 17-21, 2014 | Barcelona, Spain

The 2nd International Ocean Research Conference is an opportunity for the scientific community to come together to plan the coming decade of international collaboration in marine science and technology, with a view to improving ocean governance. The theme is "One Planet, One Ocean."

For more information, click [here](#).

ASCE-EWRI Low Impact Development Conference 2015

Conference Dates: January 19-21, 2015 | Houston, TX

The LID Conference will highlight new and continuing work including research developments and community adoption of LID throughout the United States and internationally. In addition, this conference will focus on the application of LID technology in the Southwest region of the US and will also include a mini-symposium on arid region LID.

Click [here](#) for more information and to register.

Call for Papers - 3rd International Conference on Water and Society

Conference Dates: July 15-17, 2015 | A Coruña, Spain

This meeting will encourage trans-disciplinary communication on issues related to the nature of water, and its use and exploitation by society. The conference is motivated by the need to bridge the gap between the broad spectrum of socio-political sciences and humanistic disciplines and specialists in physical sciences, biology, environmental sciences and health, among others.

Click [here](#) for more information.

GRANTS & FELLOWSHIPS

EPA's Small Business Innovation Research (SBIR) Program

Application Deadline: September 11, 2014

EPA is calling for small businesses to apply for Phase I awards up to \$100,000 to demonstrate proof of concept in one of the following topic areas: air and climate, manufacturing, toxic chemicals, water, building materials, food waste, and homeland security.

For more information, click [here](#) (must have or create FedConnect.net account).

EMPLOYMENT AND VOLUNTEER OPPORTUNITIES

Regulatory Analyst - City of Arvada

Application Deadline: August 29, 2014

Performs professional and administrative support for stormwater and regulatory programs to ensure compliance with the City's MS4 and maintenance programs as a function of the City's goal to protect, preserve and enhance a healthy aquatic environment.

For more information, click [here](#).

Colorado Foundation for Water Education Internship

Application Deadline: August 29, 2014

The Colorado Foundation for Water Education is looking for a part-time intern to assist in the areas of fundraising and communications.

For more information, click [here](#).

Hydrologic Technician and Data Analyst

Job duties include: Collect weekly and monthly tree, soil, lysimeter, throughfall collector, stream, and well samples in support of two hydrologic research projects at the Savannah River Site near Aiken, South Carolina. Maintain and manage hydrologic and water quality sampling equipment, including automated water samplers and recording water level sensors. Candidate should have a Bachelor's or Master's degree in hydrology, soil science, geography, agricultural sciences, forestry, engineering, or geology.

To apply, contact [Rhett Jackson](#).

Texas A&M Extension Program Specialist I

The successful candidate will provide leadership for the highly successful watershed education program called Texas Watershed Stewards, coordinate outreach education events delivered in target watersheds across the state, and coordinate with other members of the Soil and Crop Sciences Water Quality Team, Specialists, County Extension Agents, partner agencies and various external parties to conduct project activities.

For more information, click [here](#), then Search Postings and type NOV number 07858.

Collaboration Program Manager - Forest & Watershed Restoration Institute

New Mexico Highlands University seeks a collaboration program manager to serve as the Forest Watershed Restoration Institute's specialist in community collaboration, facilitation, and socio-economic dimensions of restoration.

For more information, click [here](#).

Research Assistant Professor or Research Associate Professor

The Water Institute of the University of North Carolina-Chapel Hill wishes to recruit a Research Assistant Professor or Research Associate Professor. The successful candidate will serve as Director for Research of the Water Institute at UNC.

For more information, click [here](#).

Natural Resources Analyst - Cheyenne, WY

Supports the State Engineer's Office in management of the groundwater resources of the State of Wyoming, primarily through the processing of water right applications and conducting field inspections of those water rights.

For more information, click [here](#).

Two Assistant Professorships in Hydrology - New Mexico Institute of Mining and Technology

Application Deadline: October 1, 2014

Applicants should have a Ph.D. in Earth Sciences, Civil Engineering, Environmental Engineering, or a related field. Seeking candidates with interests in flow and transport in porous media, hyporheic zone studies, karst hydrology, hydrogeomechanics, isotope hydrology, or aqueous geochemistry.

For more information, click [here](#).

SCHOLARSHIPS

[2014 Sustaining Colorado Watersheds Conference - Scholarships Available](#)

Conference Dates: October 7-9, 2014

A limited number of scholarships are available for the 2014 Sustaining Colorado Watersheds Conference! Scholarship recipients must be able to fulfill a volunteer duty before or during the conference. Apply by September 8 to be considered.

For more information, click [here](#).

MISCELLANEOUS

[Colorado's Eastern Plains Photo Contest](#)

Submission Deadline: September 5, 2014

The Colorado Foundation for Water Education seeks photos of Colorado's Eastern Plains to be featured in their *Headwaters* magazine. The winner will receive a free subscription to *Headwaters*.

For more information, click [here](#).

[2014 Wild Waters Photo Contest](#)

Submission Deadline: September 30, 2014

The Roaring Fork Conservancy seeks river and stream photos from wilderness areas within the Roaring Fork watershed.

Click [here](#) for more information and contest rules.

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