

THE CURRENT

An eNewsletter of the CSU Water Center



The CLEAN CENTER

Center for Comprehensive, Optimal and Effective Abatement of Nutrients (CLEAN)

The physical system

The Center will identify nutrient removal and recovery solutions in wastewater, urban stormwater, cropland, animal feeding operations, and riparian sectors.

The people and policy

The Center will identify effective incentives for adoption of sustainable nutrient management solutions in agriculture, utilities, and public works agencies, and will build approaches for nutrient credit trading programs.

Decision making tools

The Center will improve the Nation's capacity to protect the environment and public health by developing practical and widely transferable modeling, data and decision tools for risk and performance assessment of nutrient controls.

FEATURE

Civil and Environmental Engineering faculty members Mazdak Arabi (PI), Brian Bledsoe (Co-PI), Sybil Sharvelle (Co-PI), and Neil Grigg (Director) have been selected to head the new CLEAN Center (Center for Comprehensive, Optimal, and Effective Abatement of Nutrients). The EPA chose Colorado State University to lead this multi-stakeholder effort to study and control the sources of excess nutrients in wastewater, stormwater, agricultural water, and natural systems. The CLEAN Center will collaborate with other universities (North Carolina University, University of Colorado-Boulder, and University of California-Irvine) as well as the USDA's Agricultural Research Service, the USGS, the City of Fort Collins, and Metro Wastewater Reclamation District.

The CLEAN Center seeks partners from industry, local governments, researchers from other academic institutions, non-profit organizations, and general members of the public to enhance

the research, demonstration, and dissemination of nutrient solutions. If interested please contact:

CLEAN Center
c/o Neil Grigg
1372 Campus Delivery
Fort Collins, CO 80523

HIGHLIGHTS

Colorado Water Congress POND Mentoring Program

Interested in a career in the water industry? Join the Colorado Water Congress POND Mentoring Program on LinkedIn and participate in discussions with industry professionals and university professors.

Search "Colorado Water Congress POND" on LinkedIn to request to join this group. For more information, click [here](#).

Spring 2014 CSU Interdisciplinary Water Resources Seminar Theme: "Humans, Resilience, and Water"

Mondays 4:00-5:00 pm (beginning January 27) | Lory Student Center, Room 222

This panel discussion will address the impacts of the 2013 Colorado floods on the structure and biota of rivers in the region.

Featured panelists are:

- **Nolan Doesken**, Colorado State Climatologist
- **Kurt Fausch**, Professor, Stream Ecology
- **Stephanie Kampf**, Associate Professor, Hydrology
- **Boris Kondratieff**, Professor, Entomology
- **Ellen Wohl**, Professor, Geomorphology

This seminar is free and open to all interested faculty, students, and guests.

Poudre River Forum - "The Poudre Runs Through It"

Saturday, Feb 8, 2014 | 10:00 am-6:00 pm | The Ranch, 5280 Arena Circle, Loveland, CO

The First Annual Poudre River Forum will include presentations and dialog followed by a celebration with donated beer, and jazz from the Poudre River Irregulars! \$25 pre-registration required. Scholarships available.

Register [here](#) by January 31.

Hydrology Days

Mark your calendars! Hydrology Days will take place on March 24-26, 2014!

The CSU Water Center will provide scholarships to cover registration for the first 25 students who request assistance.

The speakers at this event will be:

- **William W-G Yeh**, Professor of Civil Engineering at UCLA
- **Elfatih A.B. Eltahir**, Professor of Civil and Environmental Engineering, MIT
- **Martin Doyle**, Professor of River Science and Policy, Duke University

Click [here](#) for the event website, and be sure to check future issues of *The Current* for more information and an event program.

UPCOMING EVENTS

"Poudre River Corridor History: The Legacy of Early Industrial Activity in Fort Collins"

Tuesday, Feb. 25, 2014 | 5:30 pm | Environmental Health Building, Rm 120 (350 W. Lake St)

Environmental regulatory specialist Matt Zoccali will discuss the remnants of industrial activity in Fort Collins and steps being taken to mitigate hazards encountered during redevelopment projects.

2013 Colorado Flood Forum

February 27, 2014 | 8:00 am-5:00 pm | Omni Interlocken Resort, Broomfield, CO

The Colorado Association of Stormwater and Floodplain Managers is partnering with CSU to host a forum to discuss the 2013 Colorado flood. The event is limited to the first 210 registrants. **The CSU Water Center will pay the registration fee for any CSU faculty or students interested in attending.**

To see the event flyer, click [here](#). To register, contact reagan.waskom@colostate.edu.

2014 Martz Winter Symposium: Natural Resource Industries and the Sustainability Challenge

February 27-28 | Wolf Law Building, University of Colorado | Boulder, CO

This international conference hosted by the Getches-Wilkinson Center for Natural Resources,

Energy, and the Environment and the Colorado Law Energy Innovation Initiative will draw together people from different disciplines and backgrounds to discuss the specific challenges confronting efforts to operationalize sustainability in the context of natural resource industries.

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

Western Snow Conference - Call for Abstracts

Deadline for Abstracts: January 31, 2014

Abstracts are currently being accepted for the Western Snow Conference, to be held on April 14-17 in Durango, CO.

For topics, abstract submission, and general conference information, click [here](#).

AWRA Summer Specialty Conference - Call for Abstracts

Deadline for Abstracts: February 17, 2014

The AWRA is accepting abstracts for its summer conference on Integrated Water Resources Management.

For topics, abstract submission, and general conference information, click [here](#).

AWWA Water Quality Technology Conference - Request for Abstracts

Deadline for Abstracts: February 13, 2014

The call is still open for abstracts for this conference that will take place in New Orleans, LA.

To see a list of topics and submit an abstract, click [here](#).

Utility Management Conference

February 25-28 | Savannah, GA

Register [here](#) by January 24 to attend this WEF and AWWA sponsored conference for a reduced fee. The conference will offer a diverse set of workshops, sessions, and panels that convey innovative tools, explore successful techniques, and share emerging solutions to topics addressing water and wastewater management.

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

GRANTS & FELLOWSHIPS

EPA-NCER Funding - "Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices"

Application Deadline: February 18, 2014

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications to conduct research on and demonstration of human and ecological impacts of treated wastewater applications (reclaimed water and wastewater reuse), and water conservation practices including the use of non-traditional water sources as well as more comprehensive long-term management and availability of water resources.

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

Water Resources Research National Competitive Grants Program

Application Deadline: March 6, 2014

The U.S. Geological Survey in cooperation with the National Institutes for Water Resources requests proposals for matching grants to support research on the topic of improving and enhancing the nations water supply, including but not limited to enhancement of water supply infrastructure, development of drought impact indicators, evaluation of the dynamics of extreme hydrological events and associated costs, development of methods for better estimation of the physical and economic supply of water, integrated management of ground and surface waters, the resilience of public water supplies, and the evaluation of conservation practices.

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

EPA-NCER Funding - "National Center for Sustainable Water Infrastructure Modeling Research"

Application Deadline: March 10, 2014

The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking initial applications proposing the creation of a National Center for Sustainable Water Infrastructure Modeling Research (Center) that facilitates technology transfer of open source water infrastructure models and shares green infrastructure tools and research advancements with local communities and stakeholders.

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

SCHOLARSHIPS

Scholarships for Graduate Students to attend Water Tables event

The Colorado Water Institute has a few scholarships for graduate students to attend the Water Tables dinner in conjunction with the Colorado Water Congress annual convention. This is an

ideal way to network with water professionals and identify potential career opportunities. The event will take place on Thursday, January 30.

Contact Colorado Water Institute at: Reagan.Waskom@colostate.edu.

WEF Canham Graduate Studies Scholarship

Application deadline: March 1, 2014

This scholarship provides \$25,000 for a post-baccalaureate student in the water environment field. The scholarship is for education related expenses such as room and board, tuition and books. Applicant must be a member of WEF.

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

EMPLOYMENT AND COMMUNITY SERVICE OPPORTUNITIES

Civil Engineer - Hydrology and Hydraulics

MWH Global is seeking an engineer to perform hydrologic and hydraulic analyses and design, prepare hydrologic, hydraulic and sediment transport models, analyze model results, and prepare materials to present results to clients. Position is based in Denver, CO.

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

Hydrologic Technician - Bureau of Land Management

The Bureau of Land Management is seeking temporary hydrologic technicians in various locations across Colorado and throughout the United States.

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

Internship Opportunity - Implementation Support for National Nonpoint Source Program

A postgraduate internship project is available at the U.S. Environmental Protection Agency's (EPA) Office of Water. The intern may be engaged in several projects researching and highlighting successful restoration of nonpoint source-impaired watersheds.

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

Summer Water Resources Internship

Application Deadline: February 21, 2014

A position is available for a paid eight-week summer internship with Bishop-Brogden Associates, Inc. The internship provides students an opportunity to work on water resource and water rights projects with professional engineers, geologists and hydrologists. The prerequisites for the internship include, but are not limited to, completion of one or more introductory water resources engineering/hydrology/hydrogeology/geology courses.

To apply, email, fax, or send a resume and brief cover letter to:

Bishop-Brogden Associates, Inc.
333 W. Hampden Ave., Suite 1050
Englewood, CO 80110
Fax: (303)806-8953
Email: tcrawford@bbawater.com

Denver Water Internship

This position is for a part-time/temporary Engineering Systems Technician to assist with the long term development of water treatment improvements. Applicant must be a junior, senior, or graduate student with some knowledge of utility piping theory and practice as well as contract document reading.

If interested contact Karen Knight at karen@conetstaff.com.

PUBLICATIONS

Poff, N. LeRoy. (2013) Environmental flows in the Anthropocene: past progress and future prospects. *Current Opinion in Environmental Sustainability*, 5(6), 667-675.

To read his paper, click [here](#).

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