

## **Report for 2001CO1721B: Technology Transfer/Information Dissemination**

- Conference Proceedings:
  - Brown, Jennifer, 2002, Wassup in the South Platte Basin, Proceedings of the 12th Annual South Platte Forum, Colorado Water Resources Research Institute, Colorado State University, Fort Collins, CO, 22 pp.
  - Epperson, Annie, 2001, Proceedings of the Fifth Annual Colorado State University Student Water Symposium, published on-line at the Student Water Symposium website <http://watersym.colostate.edu/>

Report Follows:

## INFORMATION TRANSFER ACTIVITIES

CWRRI provides the latest water information and research results to Colorado water users, managers and the public via an active technology transfer program. The CWRRI newsletter, COLORADO WATER, is published six times a year, with approximately 30-40 pages of water information including research findings, lists of water faculty and water courses, upcoming water conferences, short courses and seminars, new water research projects, and water news summaries. The newsletter is distributed widely throughout Colorado, to state water institutes, selected federal agency personnel out-of-state, and others upon request. The newsletter can be found at the CWRRI web site.

## WEB SITES

CWRRI maintains the following web sites:

The CWRRI Homepage at <http://cwrri.colostate.edu>



[Creating and Transmitting New Water Knowledge](#)

- About CWRRI
- [History and Mission](#)
- [Contact Us](#)
- Research Projects and Publications
- [Water Research Projects](#)
- [Water in the Balance](#)
- [Report Series](#)
- Newsletter
- [Index of Newsletters](#)
- Water Research Expertise
- [Academic Faculty](#)
- [Federal Agency Contacts](#)
- Additional Resources
- [Useful Water Links](#)
- [KIDS Zone](#)
- [Jobs in Water](#)
- [Colorado Water Concerns](#)

The Water Center web site at: <http://watercenter.colostate.edu>



The Water Center brings together a rich history in water related education and research with diverse talent from 25 different departments at Colorado State University students can find the following information at the web site:

Professional Development <a href="#">Jobs in Water Resources</a> <a href="#">Meetings/Seminars</a>	Study Water at CSU – Undergraduate <a href="#">Undergraduate Water Minor</a> <a href="#">Research Experiences for Undergraduates in Water</a>
Educational Opportunities <a href="#">Water Related Courses at Colorado Universities</a> <a href="#">Short Courses</a> <a href="#">Scholarships</a>	Study Water at CSU – Graduate <a href="#">Water Information for New CSU Graduate Students</a>

The Colorado Water Knowledge web site <http://waterknowledge.colostate.edu>

● Colorado Water -

A huge list of water facts!

A description of stream processes and an overview of Colorado's geology, water history, and climate. Links to water related definitions are also provided.

A description of Colorado's major river basins and aquifers, how the water from these sources is used and managed, and methods for conserving Colorado's water.

A description of the fish and aquatic insects present in Colorado's waters, wetlands, water quality, and links to environmental laws.

A description of transmountain diversions, interstate compacts, Colorado water rights law, and federal, state, and local administrative agencies.

A list of frequently asked questions and answers about Colorado water.

## COLORADO WATER KNOWLEDGE

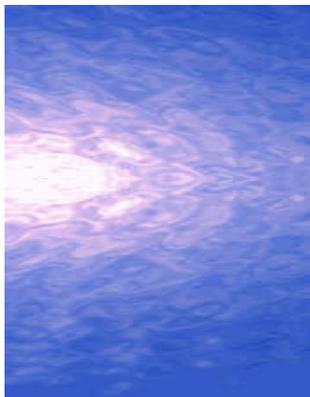
The South Platte Forum web site at:  
<http://southplatteforum.colostate.edu/>

Right: South Platte River near  
Greeley, Colorado.



The Hydrology Days web site at:  
<http://HydrologyDays.colostate.edu>

## Hydrology Days 2002



21st Annual  
American Geophysical Union  
**HYDROLOGY DAYS**  
April 2-5, 2001

Cherokee Park Room  
Lory Student Center  
Colorado State University  
Fort Collins, Colorado, USA

Sponsored by  
Hydrology Section of the  
American Geophysical Union

The Research Experiences for Undergraduates Program at: <http://waterreu.colostate.edu/>

With funding provided by The National Science Foundation, the Water Center at Colorado State University provided a unique opportunity for undergraduate students from four-year colleges and universities to conduct independent research in Water Science and Engineering during 8 weeks in the summer under the guidance of faculty in the departments of Civil Engineering, Earth Resources, Soil and Crop Science, Chemical Engineering, Fishery and Wildlife Biology and Rangeland Ecosystem Science. Students work in teams including faculty, graduate students, and staff to conduct research and gain hands-on experience in laboratory and field research methods.



## PUBLICATIONS

CWRRI publishes and distributes water research information via the following publications:

- WATER IN THE BALANCE, a user-friendly new publication series that provides a condensed version of research completion reports that gives water users a 16-24 page review and analysis of the results of research conducted under the auspices of the State Water Institute Program.

Water in the Balance No. 9, "A History of Drought in Colorado: Lessons Learned and What Lies Ahead," was published and printed in February, 2000 in collaboration with Colorado State's Department of Atmospheric Science. It has been reprinted several times, and with the current drought situation in Colorado, is still in demand.

- COMPLETION REPORTS--Final reports on completed research containing details of procedure, analysis of data and conclusions reached.
- TECHNICAL REPORTS--Technical information of interest to water resource professionals.
- INFORMATION SERIES--Information of general public interest on water-related subjects.
- OPEN-FILE REPORTS--Complete reports of research that are provided at cost upon request. These reports consist primarily of theses and dissertations from CWRRI-funded research projects.

CWRRI is in the process of making all its publications available on the World Wide Web.

## MEETINGS AND CONFERENCES

Arkansas River Basin Water Forum  
The Value of Water, The Value of Life  
Lamar, Colorado -- March 22-23, 2001

CWRRI cosponsors this annual meeting that gathers together water interests in Colorado's Arkansas River valley. The 2001 meeting, held March 22-23, headlined "The Value of Water, The Value of Life." The forum featured sessions on Water Quality, The New Bush Administration and Water Policy Issues, Recreational Issues, Flow Management and Deliveries, The Rocky Ford Canal: Aurora's Perspective, and Saving Colorado's Water. Principal Investigators Luis Garcia and Tim Gates presented an update on their salinity study in the Arkansas Basin during the Water Quality session.

21<sup>st</sup> Annual Hydrology Days  
Colorado State University -- April 2-5, 2001

The 21st Annual Hydrology Days was held April 2-5, 2001 on the campus of Colorado State University. The meeting was dedicated to Professor Emeritus Stanley Schumm of the Earth Resources Department at Colorado State. Hydrology Days provides an opportunity for students to present papers in a friendly, yet professional, atmosphere and have the opportunity to meet leading hydrologists and hydrology-related professionals. The four-day program includes contributed papers, student papers and a poster session. The 2001 program included presentations by representatives of local, state and federal agencies and the private sector. Updates on hydrology concerns and research were presented by international representatives as well, who came from

Venezuela, Brazil, Albania, Colombia, Greece, Queensland, Italy, Uzbekistan and Iran to attend the meeting. CWRRI sponsors the annual meeting.

Colorado Streamgaging Symposium  
Breckenridge, Colorado  
May 3, 2001

In a cooperative effort, CWRRI, the U.S. Geological Survey, and the Colorado State Engineer's Office cosponsored a symposium to provide information about streamgaging programs in Colorado – the history; evolving uses and importance; current access to streamflow information; user perspectives on information uses, needs and priorities; and opportunities for improvement in gage network coverage and dissemination of streamflow information. Despite an early spring snowstorm, more than 80 people attended the symposium. The symposium included three panel discussions on two broad topics: perspectives on the use of stream flow data, and the need for improvement in gage network coverage and dissemination of stream flow data. The panels were moderated by Robert Ward, CWRRI; Bill Horak, U.S. Geological Survey, Denver; and Hal Simpson, Colorado State Engineer.

26<sup>th</sup> Annual Colorado Water Workshop  
**Who's in Charge**  
Western State College, Gunnison, Colorado – July 25-27, 2001

The 26<sup>th</sup> Annual Colorado Water Workshop's theme produced excellent presentations and generated spirited discussion around several key water issues, such as recreation flows, elections of conservancy district boards, and reserved water rights. More than 200 people attended the conference, including state legislators; county commissioners from both the West Slope and Front Range; and representatives from local, regional, state and federal agencies and the private-sector. University students attending the meeting had an excellent opportunity to meet key water leaders and learn first hand about the latest issues facing Colorado water managers and strategies being employed to address particular problems. CWRRI cosponsors the workshop.

Colorado Watershed Assembly  
September 7-8, 2001  
Frisco, Colorado

Representatives from Colorado watershed groups, along with nonprofits and governmental agencies, formed the Colorado Watershed Assembly to formally link together the growing number of people and entities committed to collaborative, watershed-based approaches to conserving Colorado's natural resources. The second annual conference of the Assembly featured workshops and a chance for watershed groups and agencies from across the state to network – something geographically diverse groups often don't get a chance to do. A panel discussed what local and regional watershed activities are occurring in Colorado. Most groups reported having coalesced around a local issue such as stream restoration, but each watershed group reportedly evolved in a different way and direction, according to local needs. Reagan Waskom, CWRRI's Water Resources Specialist, has been active in the assembly since its inception.

Wassup in the South Platte Basin  
12<sup>th</sup> Annual South Platte Forum -- October 24-25, 2001

The 12<sup>th</sup> Annual South Platte Forum brought together more than 160 water users and managers, state and federal agency personnel, academics and students in water-related programs to hear views on "Wassup in the South Platte Basin." Ralph Morganweck, Regional Director, U.S. Fish and Wildlife Service and Russell George, Director of the Colorado Division of Wildlife, provided updates on the federal and state perspectives regarding the interface between water and wildlife issues. Panel discussions were held on the topics of Use Less Water, Reuse More, A Water Quality Update, Well Augmentation, Water Banking, Recreation Quantity Issues, and an Update on Recreation Quality and Opportunities. The annual South Platte Forum is jointly

sponsored by the Colorado Division of Wildlife, CSU Cooperative Extension, CWRRI, Denver Water, the Northern Colorado Water Conservancy District, the U.S. Bureau of Reclamation, the Environmental Protection Agency, the U.S. Fish and Wildlife, and the U.S. Geological Survey.

Planning for the Inevitable  
5<sup>th</sup> Annual Student Water Symposium  
Colorado State University -- November 7-9, 2001

The 2001 Colorado State University Student Water Symposium was held November 7-9 at the Lory Student Center on the CSU campus. The annual event was organized by graduate students focusing on a career in water. Invited speakers included Peter Gleick of the Pacific Institute for Studies in Development, Environment and Security, who touched on the social, political and ecological components of the changing world of water; and Professor Emeritus Gilbert White of the University of Colorado in Boulder, former director of the Natural Hazards Research and Applications Information Center. The symposium also included student speakers, who were given a chance to hone their presentation skills in an informal atmosphere. Certificates of achievement are given each year to exemplary student oral and poster presenters.

Economics of the Ogallala Aquifer  
Ogallala Aquifer Symposium  
Northeastern Junior College – Sterling, Colorado  
February 21, 2002

This symposium gave attendees the “Big Picture” of the Ogallala Aquifer – current water use and management practices and food for thought on the issues at hand concerning the future and protection of this most valuable resource. The symposium is sponsored by Colorado State University Cooperative Extension and CWRRI.

STUDENT INTERN PROGRAM

The Institute continued its Student Intern Program in FY2001, a program designed to increase student interest in water issues. Student interns worked on the following projects.

**Children’s Water Festivals**--Children’s Water Festivals are fun for both students and presenters. These festivals are an excellent way to educate Colorado’s children about one of our most precious resources, WATER. CWRRI interns taught children about Careers in Water. The students dressed in attire for their profession and taught other members of their class about their Career in Water.

Student interns also helped maintain, improve and update the CWRRI World Wide Web Homepages, monitored press reports and prepared newsletter summaries of water issues in Colorado; and researched background material for unfolding water issues and developed in-depth articles for the CWRRI newsletter, Colorado Water, and/or publications.