



Ditch and Reservoir Company Alliance

# 2010 CONVENTION REGISTRATION FORM DURANGO, CO - FEB 10-12, 2010 DOUBLETREE HOTEL DURANGO

## CONVENTION REGISTRATION (FEB 11-12)

Early Bird DARCA/CWC Member Registration by Jan 10.....\$125  
 Early Bird non-members by Jan 10.....\$250  
 Regular DARCA/CWC Member Registration.....\$150  
 Regular non-member Registration.....\$300

## PRE-CONVENTION WORKSHOP REGISTRATION (FEB 10)

Micro Hydroelectric Opportunities Workshop DARCA/CWC Member.....\$100  
 (If you are also registered for the Convention, please subtract \$25.)  
 Micro Hydroelectric Opportunities Workshop non-member.....\$200  
 (If you are also registered for the Convention, please subtract \$25.)

**OVERNIGHT ACCOMMODATIONS** - Special rates have been arranged with local hotels, please mention DARCA when reserving your rooms:

- Doubletree Hotel Durango 970-259-6580
- Best Western Rio Grande Inn 970-385-4980
- Strater Hotel 800-247-4431
- Holiday Inn Durango Hotel 970-247-5393

## FOUR WAYS TO REGISTER

- ◆ Phone: (970) 412-1960
- ◆ Mail: 1630A 30<sup>th</sup> St.,#431  
Boulder, CO 80301
- ◆ Fax: (303) 516-1202
- ◆ Online: [www.darca.org](http://www.darca.org)

**CONTACT DARCA FOR PARTIAL SCHOLARSHIPS FOR STUDENTS**

**PLEASE REGISTER AND BOOK YOUR ROOM EARLY**

Name: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Names of other Participant(s) attending for company

1. \_\_\_\_\_ Email \_\_\_\_\_

2. \_\_\_\_\_ Email \_\_\_\_\_

Total Amount \_\_\_\_\_ Paying by: Check \_\_\_\_\_ Credit Card \_\_\_\_\_ (VISA/MasterCard only)

Credit Card No. \_\_\_\_\_ Exp. Date: \_\_\_\_\_ Card Security Code \_\_\_\_\_

Signature: \_\_\_\_\_



**2010 CONVENTION  
DURANGO, CO - FEB 10-12, 2010  
DOUBLETREE HOTEL DURANGO**

***8<sup>th</sup> Annual DARCA Convention Program  
Agricultural Water - Reinventing Strategies for a New World***

***Convention Day One  
Thursday, February 11***

***Focus On: Laying the Groundwork—What’s Ahead for Ag?***

8:00 a.m. **Registration and Breakfast** – Continental breakfast.

9:00 a.m. **Welcome**  
Phil Bertrand, Superintendent of the Grand Valley Irrigation Company  
& President of DARCA

9:15 a.m. **Colorado River Water Availability Study**  
Ray Alvarado, Section Chief of the Water Information for the Colorado Water Conservation Board

**How Dust-on-Snow is Complicating Ditch and Reservoir Operations**  
Chris Landry, Executive Director of Center for Snow & Avalanche Studies &  
Colorado Dust-on-Snow Program Manager

10:15 a.m. Networking and Exhibits - Enjoy Refreshments & Snacks.

10:45 a.m. **Colorado Water Congress Legislative Update**  
Doug Kemper, Executive Director of the Colorado Water Congress

11:15 a.m. **Alternatives to Traditional Buy and Dry Transfers – What do DARCA Members Want?**  
Troy Lepper, Sociology Water Lab, Colorado State University

11:30 a.m. **Colorado’s Next Generation of Farmers**  
The Economics and Carbon Footprint of the New Agriculture  
Kyle Baker, University of Colorado

12:00 a.m. **Lunch & Guest Speaker**  
John Stulp, Colorado Commissioner of Agriculture

***Focus On: What’s Happening in Colorado***

1:00 p.m. **Drainage Systems & Districts in Colorado**  
Will Hutchins, Bona Fide Ditch & DARCA Board Member  
John McKenzie, Executive Director, DARCA

2:00 p.m. **Pressurized Systems - Dolores Project**  
Ken Curtis, Engineer, Dolores Water Conservancy District

- 2:45 p.m. **Networking and Exhibits.—Enjoy Refreshments & Snacks.**
- 3:15 p.m. **Reinventing the Bureau of Reclamation..Future Strategies**  
Bill McDonald, Pacific Northwest Regional Director, United States Bureau of Reclamation
- 4:00p.m. **Ag Efficiency Rules**  
Heath Kuntz, Senior Project Hydrologist/Agronomist, Leonard Rice Engineers, Inc.
- 4:45 p.m. **Ag to Urban Transfers Update**  
Peter Nichols, Esq. Trout, Raley, Montaño, Witwer & Freeman, P.C.,  
General Counsel of the Super Ditch
- 6:00 p.m. **Reception at the Durango & Silverton Narrow Gauge Railroad Museum  
and tour of the adjoining machine shop.**
- 7:30 p.m. **Dinner on your own**

## **Convention Day Two**

### **Friday, February 12**

- 8:00 a.m. **Breakfast with the Board**  
*Join us for "Breakfast with the Board" to help plan DARCA's future!*
- 8:30 a.m. **DARCA Annual Board Meeting**  
Election of board members and other DARCA business. If you would like to become more involved with DARCA, please consider running for a position on the Board of Directors.

#### *Focus On:* **DARCA's Role for Ditch Companies**

- 9:00 a.m. **GIS Opportunities for Ditch Companies**  
Mannie Colon, Canon City Hydraulic and Irrigating Company & Vice-President of DARCA
- 10:00 a.m. **Networking and Exhibits.—Enjoy Refreshments & Snacks.**
- 10:30 a.m. **Issues Facing the Western Slope**  
Aaron Clay, Esq. Clay & Dodson, P.C., Delta
- 11:30 a.m. **DARCA Wrap Up: DARCA Education & Consulting Services**  
Facilitated dialogue with participants  
Eve Triffo, & John McKenzie, DARCA Board Members
- 12:00 a.m. **Convention Ends.**

**Lunch is on your own.**  
**Please enjoy one of *Durango's fine restaurants.***

# MICRO HYDROELECTRIC OPPORTUNITIES

## *for Dam Owners and Operators*

- When: Wednesday, February 10, 2010  
 9:00 a.m. to 4:00 p.m.
- Where: Sunlight Room - Durango Community Recreation Center  
 2700 Main Ave.  
 Durango, Colorado
- Cost: \$100 for DARCA/CWC members;  
 \$200 for non-members  
**If you are registered for the 2010 convention , please subtract \$25 from the workshop price**

Micro Hydropower Opportunities is a pre-convention workshop before the 8th Annual DARCA Convention in Durango, February 10-12, 2010. The workshop will cover best management practices and strategies for successfully implementing and maintaining micro hydropower systems for dam owners and operators. Micro hydropower typically refers to hydro systems with a capacity of up to approximately 300 kilowatts (kW). Hydropower is based on simple concepts. Moving water turns a turbine, the turbine spins a generator, and electricity is produced. Water is diverted from a stream into a pipeline, where it is directed downhill and through the turbine (flow). The vertical drop (head) creates pressure at the bottom end of the pipeline. The pressurized water emerging from the end of the pipe creates the force that drives the turbine. More flow or more head produces more electricity.

This workshop will begin with a brief Micro Hydropower tutorial followed by a series of topics including:

- ◆ **Micro Hydropower Overview**, presented by Ed Toms, P.E., URS
- ◆ **Permitting and Legal Considerations**, presented by Steve Rowe, MS, URS and Karl Kumli, Dietze and Davis P.C.
- ◆ **Engineering**, presented by Tim Volz, P.E., URS
- ◆ **Financial Opportunities and Constraints**, presented by Ronald Miller, P.E., URS

This workshop will include a discussion of a micro hydropower project feasibility study that would incorporate an assessment of environmental constraints/permitting, engineering analysis/equipment selection, and an economic analysis to determine if the project is financially-attractive and viable. Economic assessment portion of this topic will estimate the capital costs for a hydro unit including installation, and operating costs to generate a cash flow analysis, the rate of return expected from the project owner's investment, and the number of years until payback of the money spent to build the project.

Finally, the funding analysis topic will evaluate ways of accessing capital to pay for the project's installation. Sources of capital would be loans secured by the revenue generated from the project's energy sales, federal and state guaranteed loans and grants, and tax incentives for renewable energy.

Guest speakers with expertise in the micro hydropower industry will be invited. Instructors will provide participants with case examples of dam owners and operators who have benefited from the execution of micro hydropower systems.

*DARCA's Mirco Hydroelectric Opprotunities for Dam Owners and Operators workshop is sponsored by Aqua Engineering Inc., TruePoint Solutions, and URS Corporation.*

