



**COLORADO ASSOCIATION OF
STORMWATER AND FLOODPLAIN
MANAGERS**

ANNUAL CONFERENCE

**September 27-29, 2006
Hotel Colorado
Glenwood Springs, Colorado**



ARRANGEMENTS

This year's annual conference will be held at the **Hotel Colorado** in beautiful Glenwood Springs. Glenwood Springs is located 2½ hours west of Denver on Interstate 70. From Denver, drive westbound on I-70, through the Eisenhower Tunnel, over Vail Pass and through scenic Glenwood Canyon. The Hotel Colorado is visible from the interstate immediately north of the Hot Springs Pool. Exit 116 from I-70 to reach the hotel.

A block of rooms has been reserved for conference participants. The room rate is **\$105** plus tax per night for a standard room, which is a discount from the normal fall rate. Unique multiple occupancy rooms are also available.

Reservations should be made through the hotel by August 30th. After this date, the rooms reserved for conference participants will be released. For reservations, please contact:

Hotel Colorado
526 Pine Street
Glenwood Springs, CO 81601

Reservations:
1-800-544-3998
Direct: 970-945-6511

Please identify the CASFM Conference to receive the special room rate.

*** or go to www.casfm.org ***

Click on CASFM's 17th Annual Conference and go to "Reserve a Room" to book online



DESCRIPTION

The Colorado Association of Stormwater and Floodplain Managers (CASFM) proudly announces its 17th Annual Conference. This year, we will host the conference once again at the Hotel Colorado in Glenwood Springs, Colorado.

This year's theme for the annual conference is

"Building Communities Beyond the 100-Year Line"

The presentations and technical sessions will provide us with the opportunity to discuss current issues, including flood hazards and emergency preparedness plans.

The 2006 conference will also provide an opportunity to take the Certified Floodplain Manager's (CFM) exam. For those interested, see the www.casfm.org website for details. The conference will also offer two opportunities for workshops for attendees:

- Stream Restoration Monitoring
- Improving Basin Model Calibration using gage and radar-estimated precipitation

As always, the conference will feature the annual presentations of the CASFM Project Award nominees (voted on by all attendees), our annual dinner, and the CASFM golf tournament.

NOTE TO VENDORS:

Limited vendor space is available at this year's conference. Vendors interested in reserving a space at the conference should contact David Krickbaum immediately at (720) 962-6072.



Robert Krehbiel
c/o Matrix Design Group, Inc.
1601 Blake Street, Suite 200
Denver, Colorado 80202

Tuesday, September 26, 2006

8:00 am - 5:00 pm **Certified Floodplain Manager Training Session**

Wednesday September 27, 2006

7:00 - 10:00 am **Certified Floodplain Manager Exam**

8:00 - 9:45 am **Registration**

9:45 - 10:00 am **Introduction and Welcome**

10:00 - 11:15 am **Keynote Address**

"FEMA's New Policies on Levees"

Dave Maurstad, Acting Director of Mitigation Division at FEMA

11:30 – 1:00 pm **Lunch**

Introduction of 2006/2007 Officers

Pam Pogue, Chair ASFPM

Scholarship Recipient 2005/2006 Technical Presentation

"Aggregated Uncertainties in Floodplain Delineations"

Nancy Steinberger, CSU, CASFM Scholarship Recipient

1:00 - 2:30 pm **Post-Katrina Experiences**

Brian Hyde and Penn Gildersleeve

3:00 - 5:00 pm **Four Project Presentations:**

2006 CASFM Award Finalists

5:00 - 6:30 pm **Happy Hour in Vendor Exhibit Area**

Dinner on your own

Vendor exhibits will be open all day on Wednesday and Thursday, and from 8:00 am to noon on Friday.

Thursday, September 28, 2006

7:30 - 8:30 am **General Membership Breakfast Meeting**

8:30 – 12:00 pm **Concurrent Technical Sessions**

Flood Preparedness

"Flood Preparedness Exercise 2006 – Dealing with a Big Thompson-Like Flood on Boulder Creek"

Alan Taylor, City of Boulder, Jeff Brislaw, AMEC

Kevin Stewart, UDFCD

"Chatfield Reservoir Reallocation Study"

Tom Browning, CWCB

"2006 Flood Season Review"

Kevin Houck, CWCB

"Map Modernization, Lessons Learned, Changes and the Future"

Dawn Gladwell, CWCB

"Updated Hydrologic Analyses for the Virgin and Santa Clara Rivers based on Statistical Methods"

Frank Lan, PhD, and Monica Bortolini, URS Corporation

Jeffrey Smith, Dewberry and John Liou, PhD, FEMA

"A Geomorphologic Evaluation of the Fountain Creek Watershed based on the Updated Hydrology and Hydraulics, and the Analysis of Sediment Transport and Historical Aerial Photos"

Frank Lan, PhD, Jennifer Dichkans, Graham Thompson,

Williams Alspach, URS Corp.

Stream Restoration

"Science-Based Bio- and Bio-Technical Engineering"

George W. Annandale, Engineering and Hydrosystems Inc.,

"South Platte River Segment 15, Aquatic Life/Habitat Assessment"

Moosub Eom and Ted Johnson, CDM Inc.,

Barbara Biggs and Jim Dorsch, Metro Wastewater

"Stream Insects: A Tool to Evaluate Stormwater Impacts"

David E. Rees, Timberline Aquatics and Donna Scott, Boulder

"Stream Restoration in Highlands Ranch – 25 Years in Review"

Forrest Dykstra, Highlands Ranch Metro Districts

"Can Vegetation Augmentation Stabilize a Prairie Drainage Swale?"

Derek Johns and Joe Juergensen, Muller Engineering Company

"Business Cooperation for a Successful Project, the Van Bibber Drainage Improvement Project"

Deb Keammerer, Restoration Group & Cindy Thrush, UDFCD

"Monitoring Results from Highlands Ranch"

Patrick Dougherty, City of Arvada

Stormwater Management and Erosion Control

"Promoting Stormwater Infiltration with Mountain Construction and Post Construction BMP's"

Michelle DeLaria, Jefferson County

"Post-Fire Sediment Yield Estimation Study"

Brian Murphy & Jennifer Patterson, Engineering & Hydrosystems

"Use of Level Spreaders in Stormwater Infiltration BMPs"

Jeff Cheng and Kevin Wegener, City of Aurora; and

Penn Gildersleeve, Icon Engineering

"Impediments to Innovative Urban Water Resources Management"

Jonathan E. Jones and Derek Rapp, Wright Water Engineers and

William Wenk and Paul Thomas, Wenk Associates

"Sediment Basin and Stream Stabilization at Arapahoe Road"

Cherry Creek Water Quality Authority & Peggy Bailey, Tetra Tech

"Stormwater Mgmt in Cherry Creek, a Critical Urban Watershed"

Dr. Robert McGregor, AMEC Earth & Environmental, Inc.

12:00 - 1:00 pm **Lunch**

1:30 - 4:30 pm **Concurrent - Workshops/Field Trip**

Workshop #1 – Monitoring Stream Restoration Projects

A field trip and lecture on past restoration projects, techniques and methods

Instructors: John Elliott, USGS & Ray Tenney, CRWCD

Workshop #2 –Calibrating Basins under the Radar

A "hands-on" practical workshop on improving basin model calibration using gage and radar-estimated precipitation

Instructors: John F. Henz, Dr. Jerry Kenny,

William Badini, Patrick McNierney and

Robert Rahrs, HDR Water Resources

5:00 - 7:00 pm **Cocktail Hour and Vendor Exhibit**

7:00 - 9:30 pm **CASFM Dinner and Awards Ceremony**

Friday, September 29, 2006

7:30 - 8:30 am **Breakfast**

8:30 - 9:00 am **Closing Remarks**

9:00 – 12:00 pm **Concurrent Technical Sessions**

River Hydrology and Hydraulic Modeling

"3-D Hydraulic Computer Modeling of Rivers and Storm Drainage"

William Taggart, Michael Galuzzi, George Slovensky, and

Brian Chevalier, ASCG Inc.

"An Alternate Floodway Approach for Salt Creek: Balancing Regulatory Requirements and Community Needs"

Erin Ansell, CDM

"DFIRM Requirements for Mapping the Effects of Levees"

Mark Kempton and Greg Koch, Anderson Consulting, and

Dennis Maroney, City of Pueblo and Dawn Gladwell, CWCB

"East Grand Forks Flood Protection Project"

Mark Angelo, SEH Inc.

"Flood Hazard Area Delineation and Damage Assessment using GIS-Based Tools and Techniques"

Jun Wang and Travis Bogan, CDM and

Sergio Vargas, Ventura County Watershed Protection District

"Large Scale, GIS-based Hydrologic Analysis of the Fountain Creek Watershed"

Jennifer Dickhans and Graham Thompson, URS

Channel Stabilization

"Sculpted Concrete Drop Structures"

David Bennetts, and David Mallory, UDFCD

"Urban Surface Water Diversions – A New Generation"

Douglas R. Laiho, Hydrosphere Resource Consultants

"Heartsville Coulee Diversion Channel East Grand Forks Flood Protection"

Brad Woznak, Rocky Keehn, Pete Fischer, Dan Cazanaci, SEH Inc.

"Virginia Canyon Watershed Multi-Objective Study Part II"

Jim Kapinos, Parsons and Bruce Curtis, AMEC

"Stable Channel Design for Meandering Channels"

Hui-Ming Shih, Eugene Vdojansky and Jeff Cheng

"Technical Considerations in Hydraulic Jump Design"

R. Leif Embertson, Ayres Associates

Urban Stormwater Runoff and Master Planning

"Paradox of Computer Modeling for Stormwater Designs"

James Guo, PhD Professor, UCD

"Effect of Rain Gage Density and Hyetograph Compositing on Stormwater Runoff Simulation"

Ken MacKenzie, UDFCD and James Guo, PhD Professor, UCD

"Comparison of Small Watershed Flood Flow Analysis from Gauge Data to Modeled Estimates"

Kimberly Watanabe, City & County of Denver

"Consideration of Residual Floodplains with On-Site and Regional Detention in Master Planning"

Andrew Earles, Ph.D., Wright Water Engineers, Inc.

"Construction of the Dry Creek Drainage Improvement"

Greg Glunz, URS Corporation

"Stormwater Funding in Unincorporated El Paso County"

André Brackin, El Paso County and Rob Zuber, HDR

12:00 - 5:00 pm **Golf Tournament at Lakota Canyon Ranch in New Castle**

We hope to see you there!

REGISTRATION

2006 CASFM Annual Conference

****Please register online at www.casfm.org****

CASFM can now accept credit cards on-line

Alternative Registration Form

Name: _____

Organization: _____

Address: _____

City/State/Zip: _____

Phone: _____

Email: _____

REGISTRATION FEES

Non-member fee includes membership for 2006.

Registration Fee: \$ _____

Early: (before Aug. 23) Mem \$220, Non-members \$250

Reg: (Aug 23-Sept 14) Members \$260, Non-members \$290

Late: (after Sept. 14) Mem \$300, Non-members \$330

Additional Meal Tickets: \$ _____

Registration fee includes conference and all meals associated with conference. Additional meal tickets may be purchased:

Lunch Weds \$20 \$ _____

Lunch Thurs \$20 \$ _____

Dinner Thurs \$40 \$ _____

Optional CFM Review Course \$40 \$ _____

Total \$ _____

Workshop/Field Trip: Please check one:

Monitoring Stream Restoration

Calibrating Basin Models

Mail registration with payment on or before September 15th. Checks only, please. Make checks payable to CASFM.

Please Mail Registration Form, Payment and Direct All

Registration Inquiries to:

Bruce A. Behrer

Muller Engineering Co., Inc.

777 S Wadsworth, Irongate 4 #100

Lakewood, CO 80226

Phone 303-988-4939 ext 256