2008 CASFM CONFERENCE PROGRAM
“High Elevation – Low Impact
Sustainable Stormwater Management”

Tuesday, September 9, 2008
8:00 am - 5:00 pm  Certified Floodplain Manager Training Session
Location: Mountaineer Square – Elko Room
Chris Tagert - Michael Baker, Kevin Houck – CWCB, Craig Jacobson - ICON

Wednesday, September 10, 2008
7:00 - 10:00 am Certified Floodplain Manager Exam
Location: Elevations Conference Center – Anthracite Room
Chris Tagert - Michael Baker, Kevin Houck – CWCB, Craig Jacobson - ICON

8:00 - 9:45 am Registration
Chris Butler - CH2M Hill

9:45 - 10:00 am Introduction and Welcome
Location: Mountaineer Square – Grand Ballroom
Kevin Houck - CASFM Chair

10:00 - 11:30 am LID from the Watershed Perspective and Decision-Making Process
Keynote Address by Thomas Ballestero - Professor at University of New Hampshire
Location: Mountaineer Square – Grand Ballroom

11:30 – 1:00 pm Lunch in the Elevations Conference Center – Peak Ballroom
Introduction of 2008/2009 Officers
Introduction to 2008 Scholarship Recipient - Jeffery Cheng Ph.D. Candidate at UCD
Scholarship Presentation by Ben Urbonas, UWRI
Stormwater and LID Development - Michelle DeLaria
ASFPM Foundation - Mike DePue, ASFPM Foundation Trustee

1:00 - 2:30 pm A Tool for Determining Performance and Whole Life Costs of BMPs
Location: Mountaineer Square – Grand Ballroom
Chris Olson and Larry A. Roesner, Ph.D., P.E.
Colorado State University, Department of Civil and Environmental Engineering

2:30 - 3:00 pm Break in Vendor Areas

3:00 - 5:00 pm Project Presentations: 2008 CASFM Award Finalists
Location: Mountaineer Square – Grand Ballroom
Moderator: John Pflaum - WH Pacific, Inc.
McIntyre Gulch Stabilization
Olsson Associates
Jefferson County Public School District
Fossil Creek Drainage Improvements
Stantec Consulting, Inc.
City of Fort Collins Utilities Department
Public Education Marketing Brochure
Urban Drainage & Flood Control District
Matrix Design Group
Montclair Storm Drainage Project
WHPacific, Inc.
City & County of Denver

5:00 - 6:30 pm Happy Hour sponsored by SEH, Inc. in Vendor Exhibit Area
Dinner on your own
Thursday, September 11, 2008

7:00 - 8:00 am  **General Membership Breakfast Meeting**  
Location: Mountaineer Square – Grand Ballroom

8:00 – 12:00 pm  **Concurrent Technical Sessions**  
(9:30 – 10:00 am Break)

**Low Impact Development (LID)**  
Location: Elevations Conference Center – Anthracite Room  
Moderator: Dennis Maroney - City of Pueblo

Stormwater Facilities Design To Minimize Impacts on Streams in Urbanizing Watersheds  
Larry A. Roesner, Ph.D., P.E. - Colorado State University  
Department of Civil and Environmental Engineering  
Christine A. Pomeroy, Ph.D., P.E. - University of Utah  
Department of Civil and Environmental Engineering

UDFCD Pavement BMP Demonstration Site at Denver Wastewater  
Ken MacKenzie - Urban Drainage and Flood Control District and  
Terry Baus - City and County of Denver

Waste Incorporated Porous Landscape Detention (PLD) and Pervious Concrete Pavement (PCP) BMPs for Sustainable Urban Stormwater Management  
Angela S. Hager, PhD Candidate - University of Colorado at Denver  
Shauna Kocman, PhD Candidate - University of Colorado at Denver  
Jeffrey Y.C Cheng, PhD Candidate - University of Colorado at Denver

Optimal Subbase Dimension for Infiltrating Bed Design  
Guo, J. C.Y., Professor - Civil Engineering, University of Colorado at Denver  
Ben Urbonas, President - Urban Watersheds Research Institute  
Ken MacKenzie, Project Manager - Urban Drainage and Flood Control District

Effectiveness Imperviousness Low Impact Development  
James C.Y. Guo - Professor, P.E. Civil Engineering, University of Colorado at Denver  
Tim Ho - Graduate Student and Matrix Design Group, Inc.

Effects of Land Development on Waterways and LID Solutions  
Michelle DeLaria, Stormwater Quality Chairperson - Meza Construction

Stormwater Management for Urban Environments  
Charles Taylor - Advanced Pavement Technology
Stream Restoration
Location: Elevations Conference Center – Beckwith Room
Moderator: Brian Murphy - CDM

Design Procedure to Determine Economic and Hydraulically Efficient Open Channel Trapezoidal Cross Section
Gerald E. Blackler - CH2M Hill

Howe-Haller Reservoir B Reclamation, Commerce City, Colorado
Jeffrey A. Butson, P.E., CFM - Tetra Tech

Could a River Run Through It? Envisioning the Restoration of Underground Urban Streams
Brian Hyde - WCC, and David Duclos - The COLE Company

Predicting Bank Erosion Using a GIS
Francis Rengers, CFM - Engineering and Hydrosystems, Inc.

Lessons Learned in Design and Construction of a Habitat-Based Restoration on Black Forest Creek at the U.S. Air Force Academy
Brian S. Mihlbachler, PhD, U.S. Fish and Wildlife Service and
Graham W. Thompson, P.E., Matrix Design Group, Inc.

Determination of Stable Sediment Load and Stable Longitudinal Slopes for Sandy Streams
Gerald Blackler and Mark Glidden - CH2M Hill
Ken MacKenzie - Urban Drainage and Flood Control District

Technical Modeling
Location: Elevations Conference Center – Conundrum Room
Moderator: Barbara Chongtoua - UDFCD

Reconciling Administrative Realities with State of the Art Analyses during the South Boulder Creek Flood Mapping Study
Mark Glidden - CH2M Hill, Cristina Martinez - City of Boulder, Alan Taylor

Gauge Adjusted Radar Rainfall Estimation and Basin Averaged Rainfall for Use in Local Flash Flood Prediction and Runoff Modeling
Beth Clarke - Weather Decision Technologies
Chad Kudym - Urban Drainage and Flood Control District
Bruce Rindahl - Leonard Rice Engineers, Inc

Evaluation of Summer Storms in Colorado with a Mobile Dual-Polarized Radar
Steven V. Vasiloff and Kenneth W. Howard - NOAA/National Severe Storms Laboratory
Joe Busto and Kevin Houck - Colorado Water Conservation Board

Physically Based Hydrologic Modeling – Cottonwood Creek DBPS
Lucas Babbitt - Matrix Design Group, Inc.

Urban Flood Modeling Using FLO-2D and CUHP
Don Jacobs, PE - PBS&J

Computer Model: Flow-SPA for Riprap Design and Scour Analysis
Hui-Ming Shih, Ph.D., CFM, and Eugene P. Vodjansky, CFM - Parsons Brinckerhoff

Hydrology Modeling of Level Spreader Systems and its Application on Low Impact Development
Jeffrey Y.C Cheng P.E. and Stephen McGaffick - AMEC Earth and Environmental Inc
12:00 - 1:00 pm  
**Conference Attendee Lunch:** Mountaineer Square – Grand Ballroom  
Board Member Meeting (All Board Members, Regional Rep’s, and Committee Chairs)  
Location: Mountaineer Square – Al Johnson Boardroom

1:00 - 5:00 pm  
**Concurrent Technical Sessions**

(2:30 – 3:00 pm Break)

**Floodplain Management and Hazard Preparedness**  
Location: Elevations Conference Center – Anthracite Room  
Moderator: Mark Glidden - CH2M Hill

How NAI Principals Guided a Difficult CLOMR Review  
David Mallory, P.E. - Urban Drainage & Flood Control District  
Jennifer A. Winters, P.E., CFM - Brown & Caldwell  
Craig D. Jacobson, P.E., CFM - ICON Engineering, Inc.

FEMA’s Risk Map Concept as a Means to Pursue Floodplain Harmony  
Variations on a Theme from Nashville, Tennessee  
Brian Hyde and Iain Hyde - Dewberry

Accuracy of “Modernized” Zone A Floodplains – Where is Your Flood Hazard Delineated?  
Greg Koch, P.E., CFM and Mark Kempton P.E., CFM - Anderson Consulting Engineers

2008 Flood Season Review  
Kevin Houck - Colorado Water Conservation Board

Critical Repairs to the Sacramento River Flood Control System  
Nikki Randall, PE; Richard Smith, PE; Andy Shoaf, PE;  
Dustin Robinson, PE; Anthony Alvarado, PE - Ayres Associates

The City of Evans Provides Flood Risk Reduction through Irrigation Ditch Improvements  
Brandon Luster, PE - HDR and Cameron Parrott, PE - City of Evans

Flood Mitigation Planning in Colorado: Recent Experiences, Challenges, and Opportunities  
Jeff Brislawn and Julie Baxter - AMEC Earth and Environmental

**Urban Stormwater Runoff**  
Location: Elevations Conference Center – Beckwith Room  
Moderator: Terry Baus, City & County of Denver

Stormwater Planning, Stream Stabilization and Open Space on Haynes Gulch at Aurora Reservoir  
Mark Donelson - Aurora Water and Tiffany McEachen, PE, CFM - CH2M Hill

Solving the Mystery – Untangling 50 Years of Re-Routed Wastewater and Stormwater Sewers  
Craig Wilkening, P.E., CFM and Mark Glidden, P.E. - CH2M Hill

Breaking Down the Barriers to Low Impact Development in Colorado  
Derek Rapp, Andrew Earles, Ph.D., and Jane Clary, Wright Water Engineers, Inc  
Janice Lopitz - Keep It Clean Partnership

Getting Real with Bacteria, Stormwater BMPs, and TMDLs  
Jane Clary and Jonathan Jones, P.E., D.WRE - Wright Water Engineers, Inc.

When Good Pipes Turn Bad – Evaluation and Inspection of a Major Pipe Outfall System in Aurora  
Craig Jacobson, P.E., CFM and Stephen Brown, P.E., CFM - ICON Engineering, Inc.  
Joe Kleiner, P.E. - City of Aurora

Colorado Stormwater Council – MS4s Working Together
Jill E. Piatt Kemper, P.E. - City of Aurora Water Department

Public Enforcement of Contractor Compliance: Sharing the Burden of Erosion Control Inspections in Madison, WI
   Jason Sprague, PE - SEH, Inc.

**Watershed Protection and Sustainable Stormwater Management**

Location: Elevations Conference Center – Conundrum Room
Moderator: David Bennetts - UDFCD

Burlington Mine VCUP Case History: An Ecological Approach to Mine Site Remediation
   Maureen O'Shea-Stone and Julie Ash, P.E.
   Walsh Environmental Scientists and Engineers, LLC

High Altitude Wetland Mitigation within Former Gold and Silver Mine Tailings: Lessons Learned
   John Ewy - Drexel, Barrell & Co.
   Scott Franklin - U.S. Army Corps of Engineers

High Altitude Stormwater BMP’s
   Peggy Bailey, P.E. and Alaina Smith, P.E. - Tetra Tech, Inc.

Willwood Diversion Dam Siltation Removal in Wyoming Phase I: Options and Alternatives Study
   Hui-Ming Shih, Ph.D., CFM, and Patrick Horn, PE - Martin/Martin Inc.
   Chih Ted Yang, Ph.D., PE - Dept of Civil and Environmental Engineering, CSU

Tackling Erosion Caused by Roadway Deicing Agents
   Catherine Rafferty P.E. - City and County of Denver – Department of Aviation

Innovative Techniques to Promote Sustainable Stormwater Management Strategies at a Light Industrial Site – The Arapahoe County Challenge
   Julie Vlier, P.E. - Tetra Tech
   Steve Miller - Arapahoe County

Optimal Siting for Construction Stormwater Quality BMPs – A New Look at the Old Universal Soil Loss Equation
   Tiffany McEachen, PE, CFM - CH2M Hill

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5:30 - 7:00 pm  **Cocktail Hour Sponsored by Matrix Design Group** in Vendor Area

7:00 - 9:30 pm  **CASFM Association Dinner and Awards Ceremony Sponsored by Ayres Associates**

   Location: Mountaineer Square – Grand Ballroom
   Grand Prize Drawings, Stuart Gardner - CDOT
   2008 CASFM Project Awards Presentation, John Pflaum - WH Pacific, Inc.

9:30 - 12:00 am  **Hospitality Suite by CH2M HILL at the Lodge at Mountaineer Square** - Open to all registered conference participants
Friday, September 12, 2008

7:00 - 8:30 am  Continental Breakfast in Vendor Area

8:30 - 9:00 am  Field Trip Instructions and Closing Remarks
Location: Mountaineer Square – Grand Ballroom
CASFM Chair, Stormwater/Flood Committee Chair
Conference Evaluation

9:00 – 1:30 pm  Field Trip Options:

1. Taylor Reservoir Tour
   Coordination by Chris Butler/Cory Hooper – CH2M HILL
   The first stop on the tour will be to visit the Roaring Judy Fish Hatchery located in
   Almont, Colorado. The hatchery was designed to divert water from the East River
   under a fishing pond access road and then on to a point on the hatchery effluent
   channel. Flow is controlled by a headgate at the diversion structure. Five boulder
   check dam weirs are installed to control river flows immediately upstream and
   downstream of the diversion structure. The hatchery is home to several species of
   fish including Trout and Salmon.

   The next stop will be at the Taylor Park Marina located at the Taylor Reservoir,
   which is on the Taylor River, a tributary of the Gunnison River. Join us in viewing
   this spectacular reservoir and learn more about the history of the reservoir and
   dam. The tour will include a boat around the reservoir with the tour leaders giving
   some interesting facts about the reservoir history.

2. Crested Butte Bike Tour – Lower Loop Trail
   Coordination by Rich Ommert - Moser & Associates
   The trail winds its way through the woods on very easy grade parallel to the Slate
   River. The tour will highlight channel restoration improvements which blend with the
   natural landscape of the area. Bring your own bike or rent a bike through the
   conference to join us on this adventure.

3. Crested Butte Walking Tour
   Coordination by Brian Murphy- CDM
   This field trip will begin with a presentation in the Elko Room in Mountaineer
   Square. Explore stormwater opportunities, flood history and land development
   issues in downtown Crested Butte. Start with an overview of Low Impact
   Development and Crested Butte Stormwater Criteria. Begin a walking tour of
   downtown Crested Butte with the City Planner, City Engineer, Town Historian, and
   Dr. Tom Ballestero – Professor at the University of New Hampshire. Discuss
   opportunities to incorporate LID into the downtown area with national experts while
   gaining an understanding of the Crested Butte Mining Town History.

12:00 - 5:00 pm  Golf Tournament
   Mike Bartusek – Associated Design Professionals
Wednesday Sessions and Thursday Meals will be held in the Mountaineer Square.

The CFM Exam, Wednesday Lunch, and Thursday Breakout Sessions will be held in the Elevation Conference Center.