



CASFM

THE OPEN CHANNEL

WILLOW CREEK PROJECT WINS TOP CASFM, ASFPM AWARDS

A creek project in the south Denver metro area has achieved the industry's two highest honors at state and national levels. The Willow Creek at Dry Creek Road Channel Improvements and Sedimentation Pond project won the CASFM Engineering Excellence Award as well as the ASFPM Local Award for Excellence in Flood-plain Management.

The Willow Creek project first won CASFM's highest award at its 1999 annual conference. Subsequently, CASFM nominated the project for a national award. In April, CASFM learned that the Willow Creek project won the national award and will be honored at the 24th Annual ASFPM Conference, June 18-23, 2000, Austin, Texas. The award will be presented during the Awards Luncheon at noon, June 21.

The project was sponsored by the Urban Drainage and Flood Control District, Arapahoe County and the South Suburban Parks and Recreation District. The project engineer was Muller Engineering and Wenk and Associates, and the contractor was L&M Enterprises. This is the first time CASFM has won a national award through the ASFPM organization. Congratulations to all individuals involved with this excellent project!

The project concerned a specific reach of Willow Creek with a unique set of problems that required innovative solutions. The primary purpose of the project required stabilizing the Willow Creek channel and repairing a vertical channel bank approximately 30 feet high. Through creativity and willingness of all project sponsors, several bioengineering techniques were used instead of traditional stabilization techniques. Not only is the bioengineering more aesthetic, it is being studied as a pilot project for future practical use on other projects.

During the design phase, the project sponsors also addressed water quality



CASFM members at the 1999 Conference dare John Pflaum to take their pictures. See article, photos of conference, pages 5-7.

concerns, specifically sediment from the upstream watershed. They built a pond to remove sediment before it reached the Englewood dam flood pool area. The pond enhances the water quality of the storm water before it reaches the open space area. It also mitigates excessive sediment buildup that repeatedly has closed the recreation trail downstream of the project area.

Next time you are in the area of East Dry Creek Road between South Monaco Street and South Quebec Street, stop by and check out this national award winning project.

**CASFM 1999 Conference
Article, Photos**

See Pages 5 – 7

LETTER FROM THE CHAIR

By Kevin Gingery

Thank you for electing me Chair of CASFM. I am trying my best to serve CASFM, and I hope that I can provide as much leadership and enthusiasm to the organization as my predecessors. I'd like to extend a special thanks to Susan Hayes for serving as Chair for the past two years. Susan also has been our representative to the Association of State Floodplain Managers (ASFPM) organization. Her time and investment in CASFM is greatly appreciated.

To date, we have had four general meetings; our next two are scheduled for July 13 at the City of Longmont office and October 12 at McLaughlin Water Engineer's office. All meetings start at 9 a.m. and end between 11-11:30 a.m. Please let me know if you need directions to either of these locations. The reasons you have not been made aware of the past four meetings are:

- 1) Chip Paulson, our longtime CASFM newsletter editor, retired.
- 2) Finding a replacement for Chip from within the organization has failed.
- 3) Finding a professional newsletter editor has taken a great deal of time.
- 4) The membership database has been revamped from scratch due to reasons beyond our control.
- 5) Membership has increased to more than 300 people.

I'd like to extend a special thanks to Chip Paulson for his unending work as our CASFM newsletter editor. I'm finding firsthand that being involved with the newsletter is a never ending battle, especially in this economy when we are all so busy with our own work. Next time you see Chip, please give him a big pat on the back!

Many thanks to CASFM Secretary Cindy Thrush for completing the following tasks since taking office: setting up the new membership database, creating and mailing invoices, visiting the post office box, receiving invoices, entering more than 300 memberships into a new database, tracking down people with missing membership information, sending invoice reminders, preparing mailing labels, preparing and mailing membership lists to every member, preparing general meeting minutes, distributing meeting minutes, as well as beginning to set up an e-mail database -- and living to tell about it. I know

Goals from the first General Meeting:

- obtain e-mail addresses for all CASFM members to ensure distribution of meeting agendas, meeting minutes, workshop announcements, and information from ASFPM;
- define the relationship and communication links between CASFM and ASFPM;
- reach out to communities in need of educational or emergency help; and
- ensure more help at annual conferences and workshops.

Cindy has spent many many hours accomplishing the above tasks. Next time you see Cindy, please thank her again! Cindy and I recently read the CASFM bylaws that state, "The Association Treasurer will be responsible for sending out notices and collecting dues for the Membership Committee." Boy Doug, you owe Cindy big time!

A special thanks to John Pflaum and Jamie Cribbs (2000 Conference Chair and Program Chair) for many hours of work already completed this year in planning our next conference. John and Jamie are supported by: Robert Krehbiel, Doug Trieste, Tom Browning, Brian Hyde, Doug Williams, Doug Stewart, Terry Bowen, John Doerfer, Mark Glidden, and Mike Bartusek. When you see these folks at our conference in August, please let them know how much you appreciate their efforts. We could not have done it without them!

I believe we are now back on track with a goal of providing you a CASFM newsletter every three to four months. Through our newsletter, I can keep you apprised of past and future activities/events.

Future workshop topics established thus far include:

- define and identify available grants;
- elevation certificates;
- Floodplain Management 101;
- National Flood Insurance Program;
- GIS in Water Resources;
- UDFCD Volume 3 Best Management Practices; and
- Phase 2 Storm Water NPDES permitting process.

CASFM 2000 CONFERENCE

YOU HELPED US CELEBRATE OUR
10TH ANNIVERSARY IN 1999

HELP US CELEBRATE THE
2000 CONFERENCE AS CASFM
STORMS INTO THE NEW CENTURY

CASFM is not merely moving into the new millennium – it is storming. As defined by *Webster's Dictionary*, storming describes moving with *unusual force*. Used in conjunction with the 21st century technology, floodplain managers now can achieve projects that their predecessors only dreamed were possible.

CASFM members will be able to learn more about these tools and advanced technology by attending technical workshops and presentations offered at the CASFM 2000 Conference, August 30 - September 1, Sheraton Steamboat Springs Resort.

One area of floodplain management that is gaining interest is the use of bioengineering techniques to stabilize streambanks. Members will be able to attend several flood control/channel stabilization workshops featuring companies using the latest in bioengineering techniques on their projects.

The workshops will focus on how bioengineering techniques developed on the East Coast can be effectively applied to the West, according to John Pflaum, conference organizer.

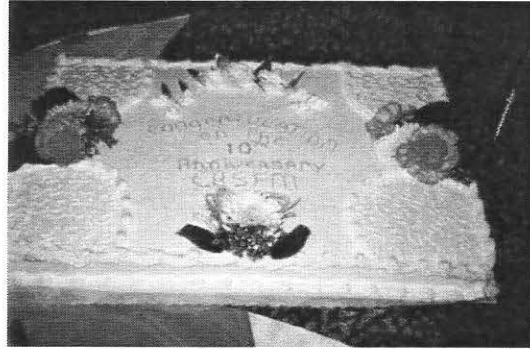
"We have problems getting vegetation to grow in our arid climate that only averages 14 inches of rainfall a year," he said.

Members also will be able to attend technical sessions on water quality and hydrology/culvert hydraulics.

Pflaum anticipates that the panel discussion on growth and development in Colorado will attract a lot of attendees. Representatives from government agencies, developers/home builders and floodplain engineers will discuss the impact of growth and development as it relates to floodplain and wastewater issues.

"This will be an interactive session," Pflaum said, encouraging CASFM members to bring up their issues and projects with panel members.

Dr. Larry Roesner with Colorado State University will present the keynote address, identifying the pros and cons of the different



types of BMPs that can be applied in the arid West. He also will discuss how BMPs affect the flow frequency curve and the need to control all types of storms using current drainage system flood prevention and control techniques.

Ben Urbonas with Urban Drainage & Flood Control District will talk about efforts to update Volumes I and II of its *Storm Drainage Criteria Manual*. In addition, he will discuss basic concepts, procedures, and considerations in designing Best Management Practices (BMPs) that are outlined in the revised Volume III of the *Urban Storm Drainage Criteria Manual*. This was published in 1999. (Related story, page 4.)

Recipients of the Grand Award and the Honor Awards will be recognized at the CASFM Association Dinner, August 31.

CASFM 1999 CONFERENCE LOOKING BACK -- LOOKING AHEAD

The 1999 CASFM Conference provided an overview of where the floodplain industry has been as well as where it hopes to be in the future. Presentations ranged from historic processes, such as asking a landscape architect to make a project "look good" to bioengineering solutions that address demands for urban open space.

Don Glondys, CASFM chapter director, with URS Greiner Woodward Clyde Engineers, addressed these issues in his presentation. He identified the "driving forces" behind the changes in floodplain management as:

- failure of past practices,
- increased land costs,
- limitation of available and/or developable land in desired areas,
- population shifts,

(CONTINUED ON PAGES 6-7)

LOOKING BACK...



Cindy Thrush (left), UDFCD; Lanae Raymond, Arapahoe County, and Wendy Vanwoerkom, Muller Engineering receive the Grand Award for the Willow Creek Channel Improvements and Sedimentation Pond Projects from John Doerfer.



Brian Hyde (left) and Robert Krehbiel receive an Honor Award from John Doerfer on the Roaring Fork and Fryingpan Rivers Multi-Objective Planning Project.



Bob Saulmon (left) and Mike Bartusek receive an Honor Award on the Orchard Avenue Detention Facility, Canon City, from John Doerfer.

- changes in land planning,
- interest in water quality
- increased concern for safety,
- increased governmental growth
- current economics (vs. past)

Because of these changes, floodplain managers have become more knowledgeable than their counterparts in the past in achieving public expectations as well as meeting regulatory demands. Glondys expects increased governmental regulations in the future that will require competing entities to work together.

Although not new, bioengineering techniques have become an effective tool in creating a more aesthetic and environmental means to address channel erosion and bank protection. Looking back to where the floodplain industry has been, the Urban Drainage & Flood Control District presented a case study in which bioengineering techniques were first used in a 1987 project along Clear Creek. These results were presented in contrast with a case study of the award-winning techniques used in Willow Creek Channel Improvements and Sedimentation Ponds project.

Another problem facing communities today is what to do with the vacant properties and ugly conditions along their river corridors. What once were eyesores are now desirable, commercial and residential properties as people are choosing to face their river corridors rather than having their backs to the river. Floodplain managers are choosing to work in multidisciplinary teams to incorporate recreational, aesthetics, wildlife habitat and ecological demands into channel design.

(CONTINUED ON PAGE 7)



"We have no idea what the last technical session was about, but it sure beats working."

... LOOKING FORWARD

Several speakers presented "firsts" at the conference:

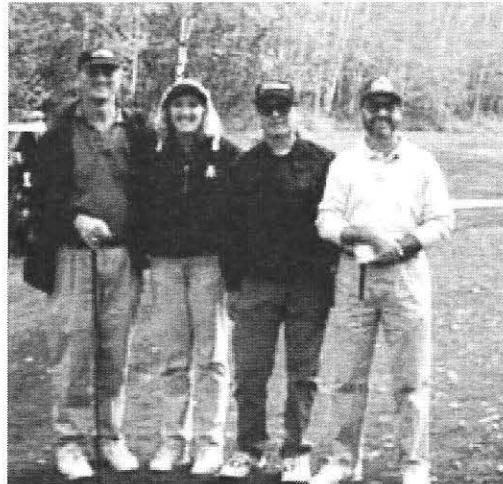
- Use of Geographic Information System (GIS) database for the Roaring Fork & Fryingpan Rivers Multi-Objective Planning Project; the power of GIS lies in the ability to derive problem-solving information from existing data through techniques such as map overlays and modeling.
- Use of a stormwater quality plan for the Cherry Creek Basin Water Quality Authority to identify future capital improvement projects and stormwater controls that would reduce external phosphorus loads into the reservoir.
- Execution of a cooperating technical communities agreement between CASFM and the Federal Emergency Management Agency (FEMA).
- Use and implications of FEMA's National Emergency Management Information System, a database that tracks all disaster declaration activities.

In his keynote address, Christopher Adams, co-director of the flash flood laboratory, Colorado State University, Fort Collins, outlined the Second Assessment of Natural Hazards. This program calls for a broader perspective on the role of natural hazards, specifically flash floods, in communities.

CASFM presented awards to several floodplain projects. In addition to the ones previously noted on page 1 and page 6, the city of Colorado Springs earned recognition for its erosion control program.



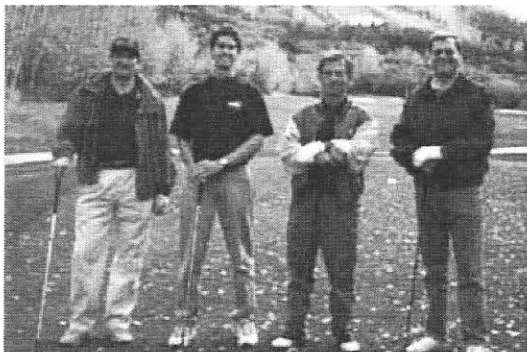
*Don Glondys,
chapter director,
talks on floodplain
management.*



Just getting ready for another day at the office!



Let the competition for lost balls begin!



OK guys, stand back, we're ready to win!

MEET YOUR REGIONAL REPS!

Thanks to the regional representatives, CASFM keeps apprised of issues, events and other activities in floodplain management. Each representative completed an e-mail questionnaire.

METRO DENVER REGIONAL REP – CRAIG HOUESHELL

A member of CASFM since 1994, Craig Houdeshell is serving his first term as regional representative for Metro Denver and plans to serve another term(s). The Metro Denver region comprises the following counties: Adams, Arapahoe, Denver, Douglas and Jefferson. Previously, he has served as Northeast regional rep and board secretary.

Houdeshell has been in the construction and engineering industries since 1981 and worked in the areas of stormwater and flood control since 1990. Currently, he is president of Engineering Design and Research Corporation (EDRC).

Why did you choose to work in the waste-water/floodplain management industry?

I attended CSU planning to be a structural engineer. However, CSU has a way of turning many of their civil engineering students into water engineers.

What do you hope to accomplish regional representative?

I would like to see other professional organizations (e.g., ASCE, APWA) acknowledge CASFM – for example, holding a joint activity between with CASFM and ASCE. I would also like to see each town/city and special district in my region to have an active member in CASFM.

What have you learned as a regional representative?

I have learned that CASFM, both as an organization and as an industry, needs to reach out to smaller communities and the public with information and technical expertise about how floodplains benefit a community.

I also believe a method needs to be determined that will ease the administrative burdens of floodplain management. Small communities are not prepared for the technical aspects and administrative requirements of floodplain management. Many times the person who is assigned as floodplain administrator

wears many hats and has numerous responsibilities.

I propose creating a “circuit rider” for floodplain administration, similar to how smaller communities contract for managerial needs. However, this would take a change of state statute.

What are some projects in your region that CASFM is or has been involved with?

I am coordinating with the Colorado Water Conservation Board for its September Flood Hazard Mitigation workshop. In addition, I am involved with planning the Autumn Metro Regional Workshop, November 2, Holiday Inn at Parker Road/I-225.

What are the ongoing issues in your region that CASFM is involved with?

Sharing the work efforts across a broad sector of the membership. I urge more members to become involved in CASFM activities.

What has been your top career achievement to date?

Starting EDRC and working to patent a new high-technology pipe-bedding density-testing device. After two years, our firm anticipates securing the patent within six months.

NORTHEAST REGIONAL REP -- DAVID HOLLINGSWORTH

David Hollingsworth has been a CASFM member since 1992 and as has served as the regional representative the past three years. The Northeast region includes part of Boulder County as well as the counties of Larimer, Weld, Morgan, Logan, Phillips, Washington, Lincoln, Kit Carson and Yuma. He is running CASFM treasurer next year.

He has worked in the storm drainage field for 19 years and has been the storm drainage engineer for the City of Longmont for the past eight years.

Why did you choose to work in the waste-water/floodplain management industry?

I became involved in this field because I like water and I like to build things – this combines both.

What do you hope to accomplish regional representative?

I try to provide workshops or other functions for the members in this area.

What have you learned as a regional representative?

I've learned that we all have similar challenges to our jobs and that it helps to share information with other members. I know that these talks have challenged me to be more progressive about new projects.

What are some projects in your region that CASFM is or has been involved with?

The biggest problem has been 1997 floods in Fort Collins and Sterling. CASFM members helped document the effects of the flooding and assisted government agencies.

What are the ongoing issues in your region that CASFM is involved with?

Educating younger members in proper storm drainage design.

What has been your top career achievement to date?

Designing most of the major drainageway improvements at DIA.

**NORTHWEST REGIONAL REP –
STUART GARDNER**

A member of CASFM for more than seven years, Stuart Gardner became the regional representative in 1999 and plans to serve in this capacity as long as possible. The Northwest region includes everything north and west of Jackson, Grand, Gilpin, Clear Creek, Summit, Pitkin, and Mesa counties.

Gardner currently (since 8/99) is the Region 3 Hydraulics Engineer for Colorado Department of Transportation (CDOT). Prior to that, he had nine years of experience, working primarily with stormwater management design and construction as well as land development and road design.

Located in Grand Junction, his region covers nearly 30 percent of the state. In the past couple of years, the hydraulics engineers for CDOT have moved from a central unit of 10 to 12 engineers in Denver to being physically located in the region offices. This has allowed a much closer working relationship with region designers and maintenance personnel, but stretches thin individual expertise statewide.



Attendees at the CASFM 1999 Conference enjoy lunch on the plaza.

Why did you choose to work in the wastewater/floodplain management industry?

I started my civil engineering career with a small firm in Illinois that performed site civil design for Wal-Mart, working both on new stores and expansions. Getting into drainage engineering was actually more chance than choice, but I enjoy what I do.

What do you hope to accomplish regional representative?

Increase drainage awareness in a region whose battle cry is "It never rains here, what do we need to worry about?" And then of course it rains, and water flows, and mud flows, and debris flows. And then people promptly forget about it until it rains the next time, and the cycle repeats.

What are some projects in your region that CASFM is or has been involved with?

I have been organizing training opportunities for CDOT employees and consulting engineers, such as the NHI Stream Stability and Bridge Scour course. I hope to continue to organize these training opportunities.

**SOUTHWEST REGIONAL REP –
KERRIE ASHBECK**

Kerrie Ashbeck has been with CASFM for two years. She served as the Northwest Region representative for a brief time before moving to Gunnison County in 1999. Her region includes the following counties: Delta, Montrose, Gunnison, San Miguel, Ouray, Hinsdale, Saguache, Dolores, San Juan, Mineral, Costilla, Rio Grande, Alamosa, Conejos, Archuleta, La Plata and Montezuma.

Ashbeck has nine years experience in municipal government, primarily as a development review engineer. For the past year, she has worked as a project manager/project engineer for a small engineering and surveying firm in Crested Butte.

What do you hope to accomplish regional representative?

Being new as a representative as well as new to CASFM, my goals are to learn more about the needs of the local communities within the Southwest region, what CASFM does and what I, as a regional rep, can do to assist these communities with stormwater/floodplain management.

What have you learned as a regional representative?

I made a career transition from working in the public sector along the Front Range (Fort Collins) to the working in private sector, which involves working in Grand Junction and smaller communities on the Western Slope. In doing so, I am seeing firsthand how different communities in disparate regions of the state view the importance of stormwater/floodplain management and to what degree they have developed and enforced management and mitigation measures.

I'm learning that most communities in my region are relatively small and have limited resources. However, new growth is increasing the visibility of stormwater/floodplain management. I see education as the tool to help these communities understand regulations and policies that should be adopted and enforced for managing and mitigating these issues.

What are some projects in your region that CASFM is or has been involved with?

Since becoming regional rep, I have been involved with securing workshop locations. However, I also want to focus on educational outreach, particularly with the smaller, growing communities.

What has been your top career achievement to date?

Because I have primarily worked in the public sector until last year, I am adept at negotiation and problem solving. I gained job satisfaction from informing and educating the developer, public, community leaders and/or staff members about a particular issue as it related to community goals.

**SOUTHEAST REGIONAL REP –
BOB SAULMON**

Bob Saulmon has been a member of CASFM for the past 10 years and was elected regional representative in September 1999. The Southeast region is fairly large, comprising El Paso County and all counties south and east.

As City Engineer for Canon City for the past 15 years, he also is responsible for floodplain administration.

Why did you choose to work in the waste-water/floodplain management industry?

I am a civil engineer and floodplain management is part of my job.

What do you hope to accomplish regional representative?

Maintain and increase communication with CASFM members in the Southeast region. My goal is to host a social gathering for floodplain managers. This would be an evening meeting, probably in Pueblo, with a brief presentation by a speaker and then the social gathering.

What have you learned as a regional representative?

I have learned, as regional rep, that it is difficult to find time to try to accomplish anything for the region. I need to set one day aside each month just for this purpose.

What are some projects in your region that CASFM is or has been involved with?

Assisting Colorado Water Conservation Board with workshops.

What are the ongoing issues in your region that CASFM is involved with?

Stormwater Permit process -- CASFM has named a liaison for all workgroups to assist the State Water Quality agency determine criteria for Phase II permitting.

What has been your top career achievement to date?

Being involved with the increased emphasis and awareness of stormwater management issues. We have completed master studies of all drainage basins in Canon City and will be promoting a stormwater utility during the next year. We have completed several major stormwater detention basins in Canon City, alleviating some historic flooding problems.

DATES SET FOR FLOOD HAZARD MITIGATION WORKSHOPS

One of the primary goals of local, state and federal floodplain managers and emergency managers is to reduce or eliminate the effects of natural hazards such as flooding. Efforts to achieve and implement mitigation techniques, approaches and successes have been actively underway. Great strides have been made, lives saved and property damage avoided by mitigation planning. More often than not, these achievements have been made following disasters, when affected local officials and the public realized the need to effect change in their communities. Change through mitigation means breaking the disaster/rebuild/disaster cycle.

The Colorado Water Conservation Board is planning four workshops on Flood Hazard Mitigation Planning. CASFM is helping to secure arrangements for the meeting facilities.

The 2000 workshops will be held on:

Denver	September 25
Grand Junction	September 26
Durango	September 27
Canon City	September 28

The objectives of the workshops are:

- 1) The evolution/history of flood hazard mitigation in the United States
- 2) FEMA's increased emphasis on mitigation and repetitive losses
- 3) Basic hazard mitigation principles
- 4) Flood hazard mitigation techniques and alternatives
- 5) Developing a community hazard mitigation plan
- 6) Integrating FEMA and non-FEMA pre- and post-disaster mitigation programs into local flood hazard mitigation plans and post-disaster recovery
- 7) Making mitigation work: Learning from case studies

BACK BY POPULAR DEMAND -- FLOODPLAIN MANAGEMENT 101

The well-received CASFM/CWCB workshops, Floodplain Management 101, are coming back. Two years ago workshops were held throughout the state, and the response was very positive. With an eye toward new floodplain managers, rapid growth in various

parts of Colorado, and specific regions where workshops were not held, plans are underway for two workshops.

Dates have not been set yet, but the workshops tentatively are planned for this summer or fall. One workshop will be held in Alamosa, probably in July or August. There is interest in the San Luis Valley on the part of elected officials, their staff, and property owners in having a workshop to raise awareness of floodplain management.

In addition, the CWCB and the San Luis Valley Water Conservancy District are about to embark on a Multi-Objective Study on a 55-mile reach of the Rio Grande roughly between South Fork and Alamosa. Interest in floodplain issues is high right now. After the Multi-Objective Study is underway, probably in July 2000, a firm date for the workshop will be set. The other workshop is preliminarily planned for the Montrose area. Details will be available within the month.

Those interested in assisting with these workshops or attending them should contact Brian Hyde at the CWCB.

SCOUR COURSE FULL; CULVERT COURSE SCHEDULED

The Colorado Department of Transportation hosted the National Highway Institute (NHI) and Federal Highway Administration course, "Stream Stability & Scour at Highway Bridges". The class, held in Denver in March, focused on preventing hydraulic related failures of highway bridges. A scour counter measures workshop also was presented.

Demand for the scour course was so great that a second one is scheduled for July -- it is already filled. While we do have a short waiting list, we don't really have enough to warrant a third offering. If there is sufficient interest, the course can be scheduled again, most likely in the Denver area in early 2001. If you are interested, please contact Stuart Gardner at voice, 970-248-7222, fax, 970-241-3539, or e-mail, stuart.gardner@dot.state.co.us.

CDOT has scheduled the NHI Culvert Design course, September 26-28, in Grand Junction. If you are interested in attending this three-day course, call Johnie Garcia at 303-757-9678 to register. Information about these courses can be viewed at:

www.nhi.fhwa.dot.gov/courses/13046.html
www.nhi.fhwa.dot.gov/courses/13056.html

STORMWATER EVENTS

by John Doerfer

STATE RULEMAKING ON PHASE II REGULATIONS

The state of Colorado has formed a Stormwater Task Force to prepare regulations for Phase II stormwater sources. Phase II sources are defined as small municipalities, those with less than 100,000 population located within an urbanized area, and construction sites of 1 to 5 acres. The state must adopt regulations that are at least as restrictive as those published by Environmental Protection Agency (EPA) in the December 9, 1999, *Federal Register*.

Workgroups on municipal, industrial, and construction issues are presently meeting to discuss the language that will be proposed to the Water Quality Control Commission at a hearing in December 2000. For further information, contact Kathy Dolan at kdolan@smtpgate.dphe.state.us or 303-692-3596.

PROPOSED REVISIONS TO BASIC STANDARDS

The Water Quality Control Commission will conduct a hearing on proposed revisions to the Basic Standards and Methodologies for Surface Water, July 10, 2000. This promises to be an interesting hearing because 58 entities have requested party status. Basic standards are narrative and numeric criteria that apply to all surface waters in the state, and are designed to protect the beneficial uses of rivers and lakes as classified by the Commission.

The Water Quality Control Division staff has proposed changes to address statewide issues identified in the past few years, and those prompted by the EPA. Three other parties also have proposed changes. Of primary interest to stormwater managers are the methods and levels set for nutrients, metals, and bacteria. The numeric criteria resulting from this rulemaking will change the way surface waters are evaluated statewide.

NUMERIC LIMITS IN MUNICIPAL STORMWATER PERMITS

The EPA issued a municipal stormwater discharge permit to the District of Columbia that includes a numeric effluent limit. This is the first numeric limit placed in a municipal stormwater



Mark Matulik (left), Bill DeGroot, and Susan Hayes enjoy a non-technical session at the CASFM 1999 Conference.

permit. A limit of 11.9 pounds per day of oil and grease was defined for Hickey Run—a small tributary of the Anacostia River and Chesapeake Bay. Hickey Run is listed as an impaired waterbody and is subject to a Total Maximum Daily Load (TMDL) requirement. TMDLs are a method to limit pollutant discharges from sources in a watershed and maintain water-quality standards. Section 402(p) of the Clean Water Act requires municipalities to reduce discharges of pollutants in stormwater to the “maximum extent practicable” by implementation of BMPs. It is uncertain at present if there will be a legal challenge to the numeric limit for Hickey Run—stay tuned!

COMMITTEES PLAN HAPPY HOUR SOCIALS IN METRO DENVER

The Flood and Stormwater Committees have held two “Happy Hour Socials” at Baby Doe Matchless Mine earlier this year. The guest speakers made the following presentations: Dr. Ed Tomlinson on PMP studies and Dr. Bob Jarrett on forensic hydrology. Both the March and May events were well attended.

The events offer an opportunity to network, learn and socialize. So, by popular demand, we would like to continue the socials with the same format – a 4 p.m. start with socializing and free food, a presentation by a guest speaker and then more socializing until 8 p.m. We will not have any during the summer, but plan to continue them next fall. I would appreciate your feedback and help for the upcoming socials, especially in lining up speakers. If you have a presentation you would like to give, or know of someone who may like to do so, please contact Doug Trieste, Chair, Flood Committee, at 303-989-1427 or dtrieste@msn.com.

**YEAR 2000 ELECTED OFFICIALS,
COMMITTEE CHAIRS &
REGIONAL REPRESENTATIVES**

ELECTED OFFICIALS

CHAIR

Kevin Gingery
City of Loveland
200 N. Wilson Ave.
Loveland, CO 80537
(970) 962-3571
gingek@ci.loveland.co.us

VICE CHAIR

Terry Bowen
Boyle Engineering
165 S. Union Blvd., Ste. 200
Lakewood, CO 80228
(303) 987-3443
tbowen@boyleengineering.com

SECRETARY

Cindy Thrush
Urban Drainage & Flood Control
District
2480 W. 26th Ave., Ste. 156B
Denver, CO 80211
(303) 455-6277
cthrush@udfcd.org

TREASURER

Doug Williams
ICON Engineering
8100 S. Akron St., Ste. 300
Englewood, CO 80112
(303) 221-0802
email@iconeng.com

COMMITTEE CHAIRS

STORMWATER QUALITY COMMITTEE

John Doerfer
Urban Drainage & Flood Control
District
2480 West 26th Ave., Ste. 156B
Denver, CO 80211
(303) 455-6277
jdoerfer@udfcd.org

FLOODPLAIN COMMITTEE

Douglas Trieste
Flow Technologies
P.O. Box 260595
Lakewood, CO 80226
(303) 989-1427
dtrieste@classic.msn.com

REGIONAL REPRESENTATIVES

NORTHEAST REGION

David Hollingsworth
City of Longmont
408 Third Ave.
Longmont, CO 80501
(303) 651-8328
david.hollingsworth@ci.longmont.co.us

NORTHWEST REGION

Stuart Gardner
Colorado Department of Transportation
222 South 6th St., Room 317
Grand Junction, CO 81501
(970) 248-7222
stuart.gardner@dot.state.co.us

SOUTHEAST REGION

Bob Saulmon
City of Canon City
P.O. Box 1460
Canon City, CO 80215
(719) 269-9011
bwsaulmon@canoncity.org

SOUTHWEST REGION

Kerrie Ashbeck
NCW Associates
P.O. Box 3688
Crested Butte, CO 81224
(970) 349-6384

METRO DENVER REGION

Craig Houdeshell
EDRC, PMB #110
5616 S. Gibraltar Way, Ste. H
Aurora, CO 80015
(303) 627-7162
craig970h@aol.com

11000 10 100 1 100 100 0 10 1000 11 1000 1



CASFM

Colorado Association of Stormwater
and Floodplain Managers
P.O. Box 22673
Denver, CO 80227-0673



John Pflaum
McLaughlin Water Engineers, Ltd.
2420 Alcott St.
Denver, CO 80211

