

The Open Channel

Summer 2015 Vol. 26 / Issue 2



2015 ANNUAL CONFERENCE
September 22-25, 2015
Vail, Colorado

STORMWATER BACK TO THE FUTURE

*By Robert Krehbiel, Matrix Design Group,
Conference Chair and Sarah Houghland,
Michael Baker, Jr. Program Coordinator*

26th ANNUAL CASFM CONFERENCE

The conference committee has been hard at work planning this year's annual conference, and we look forward to seeing at least 300 of you in Vail this September. The annual CASFM conference is the best deal going at just \$325 for a 3½-day conference (early registration rate). We actually know this because we checked other conference registration fees to compare! The Call for Registration will go out soon so keep your eyes open for it to catch the best early rates. For an added bonus, your attendance at the CASFM conference will get 12 continuing education credits that go toward your CFM continuing education requirement.

The conference program will consist of 3 key addresses, 3 educational workshops, 33 technical presentations, the 2015 CASFM Engineering Excellence Award, an informative field trip, a mountain bike excursion, and the annual golf tournament. We have many great presentations on advancements in stream restoration, technical modeling, water quality and emergency preparedness, and we are excited CASFM provides a platform for industry leaders to share their knowledge on these topics. And...the conference also gives you a chance to network with your colleagues!

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Key Addresses



Andy Reese

CASFM's Keynote Speaker this year is Andrew Reese, Vice President at AMEC Foster Wheeler. Andy was CASFM's keynote speaker in 2002 on **Stormwater Paradigms**, which was one of the most memorable presentations in CASFM's history on how the industry has come full circle from engineered systems

back to restoring natural systems. Each approach, or stormwater paradigm, seemed to solve an immediate problem, but also seemed to create a more difficult problem in its place. We have now arrived full circle; we have gone **Back to the Future** realizing that natural systems can teach us a few things about stormwater management.

Speaking of going back to natural systems, our Featured Speakers are Glenn Johnson from the Lower Platte South Natural Resources District and Carter Hubbard from Olsson Associates. They will present **Antelope Creek Daylighting for Flood Reduction**. The \$72 million project in Lincoln, Nebraska, designed by the US Army Corps of Engineers and completed in 2010, reduces average annual flood damages and removed 835 buildings and 1,200 residents from the 100-year floodplain. The Project constructed a new vegetated open channel parallel to a 4,000-foot section of Antelope Creek, which was buried in conduit in 1918, along with enlargement of the upstream and downstream existing channel.

To commemorate the 50th anniversary of the 1965 South Platte River flood that devastated Denver, UDFCD will present **Revisiting the '65 South Platte River Flood**

Sponsorship Opportunities

There are still sponsorship opportunities for the Conference. Contact Deb Ohlinger (dohlinger@olssonassociates.com) for information about corporate sponsorships and vendor booth exhibits.

50 Years Later to all conference attendees. The presentation will convey information regarding the South Platte River's history, the 1965 flood, and the mitigation projects that have been completed.

Workshops & CFM Training

The CASFM conference workshops are a great and relatively inexpensive way to learn about advancements in stormwater and floodplain management. For no extra charge, we are offering these workshops on Tuesday, September 22nd:

- » **HEC-RAS 2-D Basics for Dummies** by Max Shih and Chris Shrimpton with AECOM—afternoon only. The HEC-RAS 2-D workshop will focus on the basic knowledge and applications of two-dimensional (2-D) flood inundation modeling using the new version of the U.S. Army Corps of Engineers' HEC-RAS 5.0, which has been significantly improved and includes new abilities. You will need to bring a laptop with the HEC RAS 5.0 beta software installed.
- » **Bioretention Planning, Design and Maintenance** by Chris Olson, CSU, and Holly Piza, UDFCD—afternoon only. This workshop will provide an overview to planning, design and long-term maintenance of bioretention (aka - rain garden/porous landscape detention) best management practices with the overall goal of providing participants with relevant information and knowledge to increase the successful application of these facilities.
- » **Certified Floodplain Manager Training**—all day training session. The CFM exam will be held Wednesday morning. The CASFM conference is a great opportunity to get your Certified Floodplain Manager accreditation!

On Friday, September 25th, we are offering this workshop:

- » **Culvert Hydraulics** by Ayres Associates. The Culvert Hydraulics workshop is an interactive flume demonstration, and participants will learn the essential elements of the hydraulic analysis and design of culverts. By the end of the workshop, attendees will have received instruction on factors affecting culvert capacity; inlet control vs. outlet control; and effects of barrel roughness, size, shape, slope, and inlet treatment.

Other Conference Activities

- » Thursday morning will include presentations by three award finalists competing for the coveted **CASFM Engineering Excellence Award**.
- » The **Mountain Bike Tour** has become an annual conference event, and it will once again take place along the scenic Gore Creek. Join the tour on Friday morning.
- » On Friday, a guided field trip along the Swan River near Breckenridge that will highlight the “before” conditions along the Swan River prior to the initiation of the **Swan River Stream Restoration** Design-Build project. When the project is finished (and when the conference is back in the project's vicinity), CASFM intends to offer a follow-up field trip to show the “after” conditions.
- » For those of you wanting to show off your non-engineering skills, the annual **Golf Tournament** will be held on Friday at the EagleVail Golf Club.

Visit www.CASFM.org for conference updates and conference registration. Remember to register early for the lowest possible rates! We are excited about this year's conference and hope that you can join us! And THANK YOU to everyone that submitted an abstract and all of our presenters and volunteers! You make the conference a yearly success! ■

Final A Word From the Chair

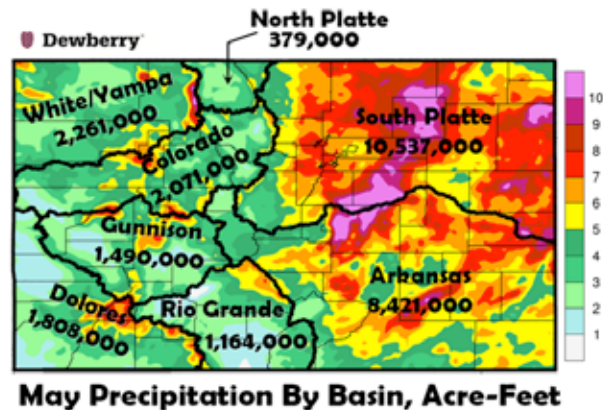


Brian Varrella, Olsson Associates, CASFM Chair



Vice Chair and Newsletter Editor, Shea Thomas is wrapping up her last Newsletter for her tenure. Those who have served CASFM as past officers know these final responsibilities, tasks and duties are bittersweet. The 9-member Board and our 8 Committee Chairs and Co-Chairs have worked unbelievably hard over the past 2 years, and I could not be more proud of their accomplishments. Their vision and execution makes CASFM an organization unlike any other. Personally, my past 2 years serving you as Chair have been some of the best experiences of my career, and for that I have more than 800 members of CASFM to thank.

This state needs the expertise of CASFM members more than ever. Surely you noticed we had some relentless weather through April and into June this year. Nearly all of Colorado experienced above-average rainfall and snowfall in the high country, and as a result many of our rivers and streams swelled above flood stage. CASFM members at Dewberry offered this diagram on Twitter as @COFloodUpdates on June 2, 2015;



OK, that is a lot of water. Enough for sandbag armies to mobilize multiple times in multiple communities fighting to protect property and infrastructure. We know this is a natural phenomenon, and that it is repeatable and predictable, and we talk about it all the time. The problem is that we as a society forget our history and repeat our poor community choices. Right now I am hearing from many community officials in our membership that the lessons of post-wildfire flash flooding and 2013 Floods have faded to a distant memory. Now we face as much resistance as we did before the disaster cycle kicked into high gear 4 years ago.

Of course there is flooding in the wildfire burn zones and 2013 Flood zones again. That is what everyone expects to see on the nightly news, right? There is no calculus to this relationship; the formula for flood disasters is very simple;

**Water + Gravity + People
= Flood Disaster Potential**

The biggest question that has vexed CASFM members is how to change this equation for better outcomes? If we can't stop the water, and we have little control over the force of gravity, then our only opportunity is to modify the "People" side of the equation. That is precisely our job; to change human decisions in the face of known hazards, though it is the most difficult challenge we have.

Realize what I am suggesting before your next thought dismisses this one. You cannot successfully change human behavior with your training alone. Remember these

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signs which appeared all over Colorado in the wake of the 1976 Big Thompson Flood disaster?

They are everywhere, and they have been proven to have a positive impact on human behavior in the face of dramatic natural hazards. If you see these signs, high-five a sociologist. Flood warning has also proven to save lives, so if you love to check the flood gages across Colorado published by the Division of Water Resources at <http://www.dwr.state.co.us/SurfaceWater/Default.aspx>, then shake the hand of a hydrologist. Love getting a wake-up alarm from late night warnings of floods in progress near your house? The local and national emergency managers are up all night and watching

your back and protecting you, your family, your neighbors and visitors, and everyone that lives in or passes through Colorado. It clearly takes a quiver of solutions to slowly turn the ship of human behavior in the face of natural hazards.

My point is that for you to succeed in stormwater and floodplain management, you are going to need some new friends. These are the kind of friends who work outside your circle of regular colleagues. They have capabilities, expertise, skills and insight that you do not have. I recall our keynote speaker from Steamboat in 2012, Michael Brown, left us with wise words from his keynote address:

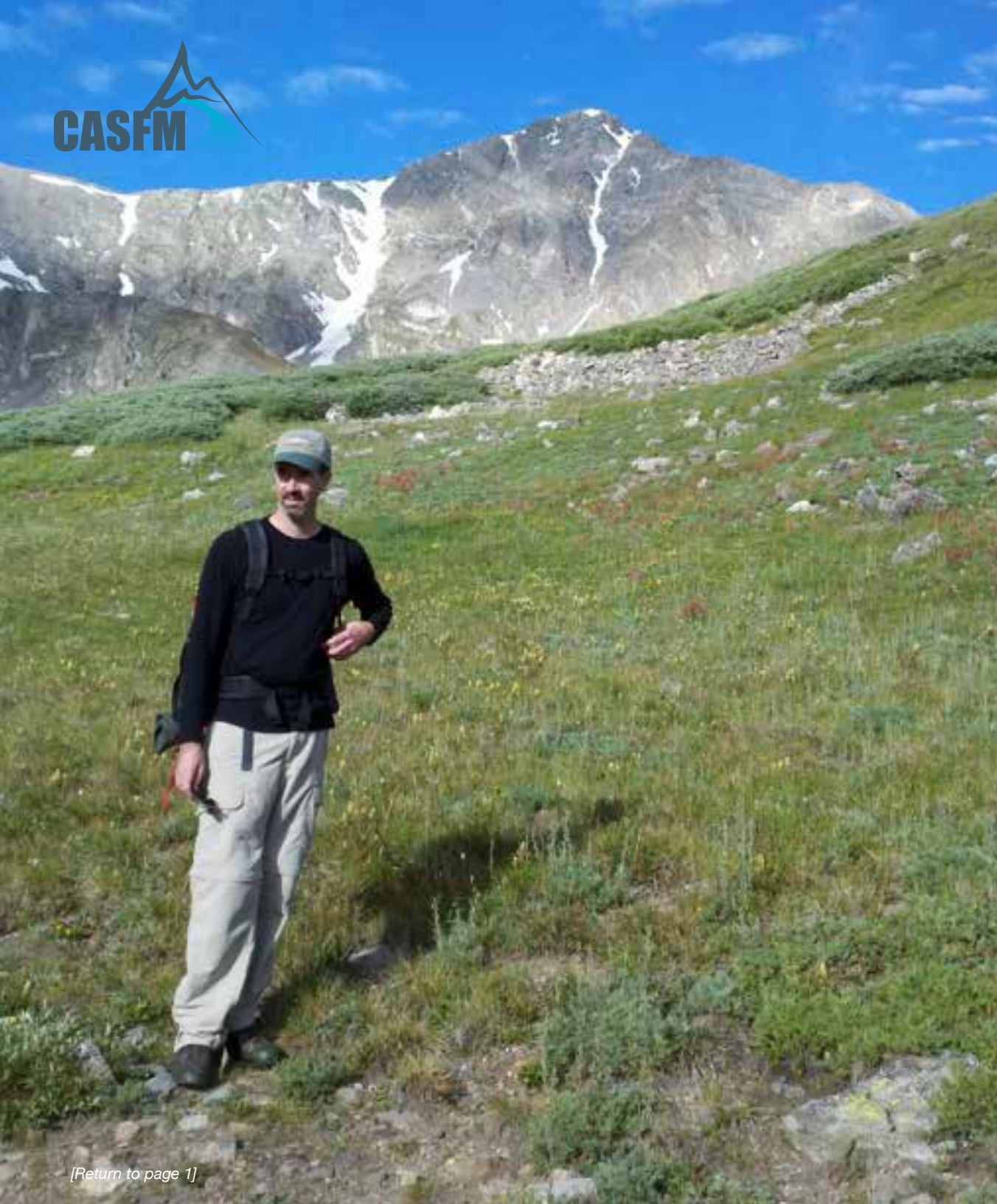
“Relationships are the most important things in your jobs and in your lives and you need to maintain them... In your personal and professional lives you will face a crisis and your relationships will get you through them.”

To get new friends, you need to create new relationships. Relationships are precisely what make CASFM successful and relevant before and after the 2013 Floods, and that is how we have formed new alliances with our elected officials, our colleagues in the other 35 state chapters, our ASFPM family, and every agency and community we work with daily. Coming soon; new professional alliances with APA Colorado, the Colorado Riparian Association, the Natural Hazards Center, and the Colorado Foundation for Water Education, to name only a few.

We have some incredible friends and colleagues at CASFM, and I once again have the pleasure of acknowledging some of their achievements. First, David Hollingsworth of the City of Longmont was recognized for his post-2013 Flood service by The American Public Works Association (APWA) as Professional Water Resource Manager of the Year! He was nominated by Allan Bryning of the City of Longmont and will officially receive the award at the Water Congress in Arizona in August. Congrats, David, on your 22 years of service to Longmont, and this national recognition from our friends at APWA!



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Second, I am pleased to acknowledge Chris Carlson and our colleagues at Colorado State University for their recent ASFPM Award. Chris and his team collaborated with CSU Facilities in the early 2000's to floodproof the main campus using non-traditional architectural methods to manage the type of major flooding that CSU experienced in 1997, twice in the 1950's, and in the 1930's along the Oval. Chris was working for Ayres Associates when the collaboration with CSU Facilities created the vision that is now on the ground at the greatest public education facility in Colorado (sorry, that is my bias...), and it was recognized this past June at the ASFPM Conference in Atlanta. Congrats, Chris, on receiving the John Sheaffer Floodproofing Award for 2015!



Relationships within this organization are what have fueled my work for you over these past 2 years. I want to end this soliloquy the way I started by thanking all CASFM members for allowing me the opportunity to serve you as Chair these past 2 years. If I had one regret, it would be that I wish I had more time to establish more relationships for CASFM. I have learned so much, met so many amazing people, and enjoyed everything that makes CASFM stronger, more connected, and more resilient; its relationships.

A BIG thanks goes out to Shea Thomas and Emmett Jordan again for making the Newsletter possible again, and for the last time before your new Board takes office in September. I hope to see all of you in Vail for our Annual Conference in September, and until then, may your paths take you far from the parking area, and may they be lined with wildflowers below and sunshine above.

Brian Varrella
CASFM Chair

Stormwater Quality Committee

By Holly Piza, Urban Drainage and Flood Control District

The CASFM annual stormwater quality field trip was held on June 23, 2015. With 47 members in attendance, the bus made its way up to Boulder and then down through Denver visiting seven sites. The tour included:

The Province in Boulder

This site provides new student apartments for CU Boulder. The site includes permeable interlocking concrete pavement as well as bioretention immediately adjacent to the building, providing both stormwater quality treatment and attractive landscaping in the same area. Cody Gratny from JVA presented the project and answered questions from the group.



Rock Creek Retention Pond in Louisville

This site, built in the 1980s, considered water quality before there was criteria for water quality. The design team was successful in developing an innovative outlet structure that minimized maintenance and provided good water quality treatment for decades. Engineer, Brian Chevalier, joined us to present the project and answer questions.



Sloan's Lake Forebay in Denver

When there's not enough room to design for full treatment of the water quality capture volume but you want to do what you can, pre-treatment can be beneficial in facilitating maintenance and removing trash and coarse sediments. These types of facilities can be challenging to design as an attractive feature in a highly visible location such as Sloan's Lake. This is a successful example of end of pipe treatment. Landscape architect, Paul Thomas, presented the project and answer questions from the group.



Huston Lake in Denver

This project started due to a nuisance drainage issue and the final plan addressed that and much more. The design includes a bioretention basin with an innovative forebay designed to be maintained as part of Denver's street sweeping program. Jim Wulliman from Muller Engineering Company and Jesse Clark of Stream Design presented the projects.



Morse Park in Lakewood

This bioretention basin was requested by a resident of the neighborhood. The basin replaced an old concrete-lined pond that was unattractive and required frequent maintenance. It treats a 15 acre watershed and utilizes a forebay design similar to Huston Lake. Similar to the Sloan's Lake forebay, it was important for this to be an attractive amenity for the park. The basin utilizes varied depth zones with plantings tailored to each zone. Both John Yeger from Muller Engineering Company and John Paliga from City of Lakewood presented at this site.

Mile High United Way Bioretention in Denver

This project includes a level spreader, grass buffer, bioretention basin, and rooftop detention. It's a good example of how to handle stormwater treatment at a constrained site and keep it above ground. Rob Frankenberger of Martin Martin presented the project and Mile High United Way and the contractor were present to answer questions.



Highland Bridge Lofts Rain Garden

This was a quick stop to a favorite from past years. ■

Scholarship Committee

By Morgan Lynch, CH2M

Summer is here! With summer, comes a little bit of downtime for the scholarship committee. However, we will be ramping up our outreach this fall and we encourage members to start spreading the word to local universities, college students and professional organizations regarding upcoming scholarship opportunities. We had a record number of applicants in 2014 and we hope to see the same participation this year. CASFM will award two scholarships in the fall of 2015:

- » The CASFM Ben Urbonas Scholarship is available to graduate level students in the engineering field.
- » The CASFM Family Scholarship is available to full-time students (Sophomore level or above), enrolled in an eligible program, and have a parent or legal guardian that is a current member of CASFM.

Please remember that CASFM is officially recognized as a 501(c)(3) with the IRS and all donations to the CASFM Family Scholarship Fund are tax free. If you have any interest in donating to the CASFM Family Scholarship please contact me or Brad Bettag, our current Treasurer.

To volunteer with the Scholarship Committee, or to receive information on the scholarships offered by CASFM, please contact me at morgan.lynch@ch2m.com.

Information about the scholarship and previous recipients can be found on the scholarship page on the CASFM website. ■

Flood TAP Committee

By Julie Baxter, Risk Prepared

Last November, CASFM established its newest committee to help support the Colorado Flood Technical Assistance Partnership (Flood TAP), a working group originally formed by the Colorado Division of Homeland Security and Emergency Management (DHSEM) in 2012, in partnership with the CWCB and FEMA Region VIII. The Flood TAP meets every other month to provide a forum for collaboration among agencies and organizations responsible for flood preparedness, mitigation, response, and recovery. The multi-agency group serves to assess statewide risks and vulnerabilities, enhance capabilities, and implement and track progress on projects and initiatives to reduce long-term flood risk and improve the resilience of Colorado communities.

During our January and March meetings, the Flood TAP reviewed the prioritization and progress of flood mitigation actions identified in the Colorado State Natural Hazards Mitigation Plan (2013) and Flood Hazard Mitigation Plan (2013). This is a role established in the State Mitigation Plan to monitor implementation and annually report progress to the State Hazard Mitigation Team.

The Flood TAP identified two projects to support and focus on in 2015—a Flood Response and Recovery Toolkit for local governments and an update to the State's Floodplain and Stormwater Criteria Manual. However, one of the primary successes of the Flood TAP remains the ongoing opportunity for agencies to share ideas and information and discuss each other's priorities and capabilities in order to better align resources to benefit Colorado communities.

To learn more about the Flood Response and Recovery Toolkit, look for our session at the annual conference this fall! ■



Outreach and Training Committee

*By Craig Jacobson, ICON Engineering
and Alan Turner, CH2M*

The CASFM Outreach and Training Committee began 2015 by refocusing on the revised vision for the Community Outreach and training Committee that was outlined prior to the 2013 Floods. The committee has been focused on supporting the communities affected by the 2013 floods for the past year, and we felt it was time to move forward with the revitalization of the committee. The committee goals include:

1. Identifying Meaningful Training Opportunities:
 - a. We plan to send out a survey to general membership to help focus and prioritize training opportunities.
 - b. UWRI Training Opportunities
 - c. NFIP/FIRM/CFM – Opportunities related to training and certification for NFIP related Activities
 - d. CRS – Training to understand and Highlight recent changes to the program
 - e. Water Quality Training
 - f. Stream Stability Training
2. Outreach to Colleges and Universities
3. Help to formalize CASFM Response to Emergencies based on the recent work
4. Social Media Presence
5. A Community Outreach and Training committee meeting was held on March 10, 2015 and was well attended. The goal of this meeting was to review and refine the goals and vision of the Committee and to setup sub-committees with leaders to champion each of the goals.

6. The Sub-committees Established includes:

- a. Website and Social Media Sub-Committee
- b. Political and Professional Organization Liaison Sub-Committee
- c. College Chapter Sub-Committee
- d. Grant sub-committee
- e. Training Sub-committee
- f. Professional Development and training

CASFM held quarterly Lunch and Learns in April where Brian Varrella from Olsson Associates presented information related to the new Federal Flood Risk Management Standards (FFRMS) that President Obama issued in January 2015 as Executive Order 13690.

Also in April, The Stormwater Chemistry Principles and Applications Training was held. Erick McWayne who has over twenty years of experience in water quality and environmental chemistry presented this training. He has conducted numerous water quality investigations and taught over 100 related courses. He currently provides consulting support to water quality projects and teaches courses in stormwater chemistry, groundwater chemistry, contaminant transport and fate, and hydrogeology around the country.

Finally, the committee has been busy with outreach to other organizations with related flood interests.

Brian Varrella and Alan Turner met with Waverly Klaw and Anne Miller with the APA CO Sustainability Committee on March 18, 2015 to discuss and explore opportunities to collaborate between our two organizations related to flood preparedness and sustainability concepts.

Alan Turner met with Lindsey Davis with FEMA FLOOD Smart to discuss information that could be added to the CASFM Website. This is still a work in progress but could provide additional collaboration with FEMA moving for-

ward. The tools and information discussed with Lindsey can be found below.

Cost of Flooding Tool

This is a great way to easily show residents just how much a flood could cost without flood insurance. https://www.floodsmart.gov/floodsmart/pages/flooding_flood_risks/the_cost_of_flooding.jsp

Flood After Fire Fact Sheet

This is a great one that can be used in advance of wildfire season to explain the flood risks surrounding burn scars and information on the 30 day exemption rule that was put into place following Biggert-Waters. https://www.floodsmart.gov/toolkits/flood/downloads/FS_FloodRisksFloodAfterFire.pdf

Spring Thaw Fact Sheet

This is a good fact sheet on the risks during the spring such as snowmelt. https://www.floodsmart.gov/floodsmart/pdfs/Spring%20Flood%20Risk%20Fact%20Sheet_FINAL_revised.pdf

Why You Need Flood Insurance

Basic tri-fold that explains the need for flood insurance. <https://www.fema.gov/media-library/assets/documents/4304>

Flood Preparation and Safety

Emergency Manager find this one useful. <https://www.fema.gov/media-library/assets/documents/1605>

Know Your Risk

FloodSmart uses this brochure regularly to provide to those interested in purchasing flood insurance. <https://www.fema.gov/media-library/assets/documents/18542>

CASFM's Outreach and Training Committee always has new and exciting opportunities to support the organization. Please contact the co-chairs directly with interest in joining (cjacobson@iconeng.com, alan.turner@ch2m.com). ■

Regional Reports



Metro Region

By Drew Beck, Matrix Design Group

It is hard to believe that half of 2015 is already behind us. Though the winter snowpack was slightly underwhelming this year the wettest May on record has provided some great spring and summer flowers. We had some great metro socials in the first half of the year and are looking forward to a few more in the second half.



For our winter social on February 11th Don Jacobs from Enginuity Engineering Solutions presented the Manitou Incline Improvement project. Simply known as “The Incline” it is a popular hiking trail rising above Manitou Springs, Colorado, near Colorado Springs. The trail

is the remains of a former narrow gauge funicular railway whose tracks washed out during a rock slide in 1990. The Incline is famous for its sweeping views and steep grade, as steep as 68% in places making it a fitness challenge for locals in the Colorado Springs area. The Incline gains over 2,000 feet of elevation in less than one mile, and has gained popularity in recent years attracting up to 45,000 visitors per month. The Incline was closed from August through December, 2014 for some much-needed repairs to prevent further erosion. The Incline work included repair and replacement of damaged retaining walls, clean-up of rebar and loose debris, construction of additional drainage structures, stabilization of existing ties and of surrounding slopes, and a new sustainable connection to the Barr Trail. All of these improvements were completed without vehicular access or the use of heavy machinery, at a cost of \$1.6 million.

For our spring social, in true CASFM style, rainbows abound over us at Rock Bottom Brewery in Westminster where Jeff Lukas from the CIRES Western Water Assessment gave a presentation titled, Future Changes to heavy and extreme precipitation events: What we know? The root of the presentation was from the Climate Change in Colorado: A Synthesis to Support Water Resources Management and Adaptation report which Jeff was the lead author of in conjunction with the CWCB. Based on the findings of the report and additional recent scientific literature, Jeff reviewed the projected future climate changes for Colorado and our relative confidence in those changes, highlighting heavy and extreme precipitation events given their implications for stormwater and floodplain management. The inherent uncertainties in the climate projections point to the need for new approaches to risk assessment and



long-term planning. The presentation was timely since CASFM had just submitted comments to FEMA on the revised guidelines for executive order 11988 for floodplain management and utilizing climate science to establish floodplain design parameters.

We are currently planning a July presentation from Tom Browning with the DNR on the Chatfield Reallocation project. Keep an eye on the CASFM calendar or your email on the exact date and location. As always if you, or someone you know, would like to present a project or research work, or if you would like to see a social event held at a specific location, please contact me at drew_beck@matrixdesigngroup.com. ■

Regional Reports



Northwest Region

By Betsy Suerth, Garfield County

Over 30 people attended the NW Region spring seminar on May 12 at the Basalt Library in the Roaring Fork Valley. Paul Hindman, Director, UDFCD kicked off the day with his Stormwater Management vs. Water Rights presentation. He delivered good news that the UDFCD was essentially successful getting legislation passed to better deal with the State Engineer's opinion regarding water rights and stormwater management. Contact UDFCD for details.

Paul was followed by an interesting presentation by Andrew Earles and Julia Traylor from Wright Water Engineers entitled "Planning for Variability & Uncertainty: Climate Change and the Urban Drainage System." The Wright Water study, commissioned by UDFCD, reviewed climate change projections to identify potential vulnerabilities of the urban drainage system.

Following lunch, the Honorable Jacque Whitsitt, Mayor of Basalt, gave a frank talk about the Town's Acquisition of the Pan & Fork Mobile Home Park for Flood Mitigation and lessons learned. She had some of the attendees teary eyed when she described the trials and tribulations of the process. Robert Krehbiel of Matrix Design Group then presented the river restoration project that followed the acquisition of the mobile home park and the group was treated to a tour of the project just outside of the library's doors. The day ended with an extensive tour of the water quality facility at Jennie Adair in Aspen, thanks to April Long from the City of Aspen. Additional commentary was added by Andrew Earles, who had assisted the City with the project. ■



Rick Dorris put together an interesting Grand Junction event hosting a group of approximately 35 attendees made up of an unusual blend of CASFM members and City Council and Planning and Zoning Commission officials. Rick invited Brian Varrella to give his perspective on the September 2013 floods with his presentation entitled "Preventing Flood Disasters from Becoming Disastrous." Rick's purpose was to provide elected and appointed officials the opportunity to better understand risks associated with flood events. Through both Brian's never disappointing appearance and the Q&A session following his presentation, Rick achieved his goal. True to form, Stuart Gardner assisted Rick's intent by bringing forward the flash flood risks specific to Grand Junction, offering a perspective that perhaps some of the participating officials had not yet considered. Betsy Suerth, who also attended the event, reported that one City Council member told her that he would now push for the drafting of a City Drainage Master Plan. Way to go, Mr. Dorris!

Thanks to all the CASFM members who attended the presentation and subsequent pizza feast! ■

ASFPM Chapter Director's Message



Here we sit toward the end of May with Bike Month Iowa almost over. As you know from my last messages, I have already been commuting in to work on my bike as much as I can. However, I have been making an extra effort as a part of the Snyder & Associates team this month.

With some cold and rainy riding, I have about a 40% commute rate with 133 miles for the month of May. As I type this message, we are currently sitting in second place in our category (100-499 employees). I guess I will have to rally the troops for one last push to take the crown. I have about 260 miles total in since March 9, my first ride of the year. Early on (March/April) it was much too cold for me. As with anything we put our time and effort in to, it needs to be mostly enjoyable. Being cold is one thing, but not being able to feel your fingers or toes, no matter what you do, is not all that enjoyable.

Since my last message I have continued with one assignment, attended the Board meeting in Madison, WI, and I am about to take on a new role on the board. Somehow the 2015 ASFPM Annual Conference in Atlanta, GA is upon us. So, with it rapidly approaching, I have been scrambling to prepare here in Ankeny at Snyder for while I am gone as well as at home. My wife is a homemaker that

will now need lots of help from family with a 4 year old and 2 year old twins by herself. My wife traveled with me to the Seattle conference last year, but we just couldn't make it work this year with her younger sister getting married the Saturday after conference.

The assignment I am continuing is being a member of the Long Term Financial Committee. The committee has met many times via conference call and while we were in Madison in late February. Our first task was to look through past conferences and assess what we should be doing for planning for Atlanta and for future conferences. These planning efforts included costs, venues, material, and etc. We had to make easy and hard decisions, but rest assured, decisions were made with the membership in mind while keeping ASFPM's premier event viable long term. The second task was to analyze the 2011 Long Term Financial Report that was prepared. We are in the process of updating these strategies, adding strategies, or even getting rid of some that we feel are not good moving forward.

A wrap up to the Board meeting in Madison is that it was, again, jam packed full of content for us to review and go through. Even though we speak by phone frequently, we only meet in person twice a year, so we like to get as much done face to face as possible. One whole day was dedicated to one goal, however. We went line by line going through policy recommendations. This was in an effort to

update the National Flood Policies and Programs in Review (NFPPR) last published in 2007. It was a very long and tedious day, but the end product should be one of the best resources ASFPM has to shape flood policy.

Finally, the new role I will be taking on with the board. There is a standing Chapter Director ad hoc committee that is appointed by the Board Chair. This ad hoc committee is the same committee that tackled the issue on whether or not the Chapter Districts should be reshuffled that I have written about previously. When our committee met in Madison in February, I was chosen to be the next committee chair when the current chair steps down at the Conference in Atlanta. I will obviously tackle issues as they have been coming up as we have been, but I also plan to develop resources that chapters can use in their marketing strategy for members to become more relevant or to stay relevant in their respective markets. More details to come.

Thank you for your continued support and please feel free to contact me with your information or concerns.

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Calendar

For a complete list of CASFM events, please visit the calendar on our website at www.casfm.org.

Upcoming scheduled events include:

- » Natural Hazards Mitigation Association Symposium
Omni Interlocken Resort in Broomfield
July 22-23
- » UWRI Course – Introduction to EPA SWMM 5
Leonard Rice Engineers office in Denver
July 23-24
- » UWRI Course – FIRM Map Revisions
Leonard Rice Engineers office in Denver
August 27-28
- » 26th Annual CASFM Conference
Vail Cascade Resort
September 23-25
- » UWRI Course – Stormwater Planning and Design with SWMM 5
Leonard Rice Engineers office in Denver
September 24-25
- » UWRI Course – Overview of WQ Regulations and Compliance
Leonard Rice Engineers office in Denver
October 22-23
- » FEMA L278 CRS Course
City of Longmont
November 2-5
- » UWRI Course – Floodplain Hydraulics using
HEC-RAS/GeoRAS
Leonard Rice Engineers office in Denver
December 3-4



THE COLORADO ASSOCIATION OF STORMWATER AND FLOODPLAIN MANAGERS

The Open Channel

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Beck Anderson, CFM
City of Fort Collins Utilities

Southwest Region

David "Sam" Samuelson, CFM
Town of Telluride

Northwest Region

Betsy Suerth, CFM
Garfield County

Metro Denver Region

Drew Beck, PE, CFM
Matrix Design Group

Southeast Region

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Pikes Peak Regional Bldg. Dept.

Committee Chairs

Conference

Robert Krehbiel, PE
Matrix Design Group

Colorado FloodTAP

Julie Baxter, AICP, CFM
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Floodplain/CFM Coordinator

Jamie Prochno, PE, CFM
Colorado Water
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Stormwater Quality

Holly Piza, PE
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