

COLORADO ASSOCIATION OF STORMWATER AND FLOODPLAIN MANAGERS

2480 W. 26th Ave., Suite 156-B

Denver, CO 80211

www.casfm.org



Date/Time: Thursday, March 10, 2016, 9:00 AM
Hosted by: CH2M
Location: 9189 S. Jamaica St., Englewood, CO
Remote: (855) 559-2426 (Conference ID 4156028)

GENERAL MEMBERSHIP MEETING AGENDA:

I. Call to Order – *Shea Thomas*

- A. Introductions – Sign in sheet attached
- B. Shea Thomas – UDFCD – CASFM Chair
- C. Brian Murphy – CDM Smith – CASFM Vice Chair
- D. Danny Elsner – CH2M – CASFM Secretary
- E. Brad Bettag – CH2M – CASFM Treasurer
- F. Stuart Gardner – CDOT – CASFM Webmaster and Membership Administrator (on the phone)
- G. Brian Varrella – CDOT – CASFM Northeast Region Representative (on the phone)
- H. Drew Beck – Matrix – CASFM Metro Denver Representative
- I. Robert Krehbiel – Matrix – CASFM Annual Conference Chair
- J. Sarah Houghland – Michael Baker – CASFM Conference Program Coordinator
- K. Jacob James – Parker – CASFM Scholarship Committee Chair
- L. Craig Jacobson – ICON – CASFM Outreach & Training Committee Co-Chair
- M. Alan Turner – CH2M – CASFM Outreach & Training Committee Co-Chair
- N. Marsha Hilmes-Robinson – City of Fort Collins CASFM CRS Committee Chair (on the phone)
- O. Kevin Houck – CWCB
- P. Monica Bortolini
- Q. Haley Heinemann – CH2M
- R. Doug Stewart – CH2M
- S. Jeremy Deischer – ICON
- T. Jason Messamer - Olsson
- U. Emily Murphy Siem – Calibre (on the phone)
- V. Matt Simpson (on the phone)
- W. Ken Cecil (on the phone)
- X. John Laser (on the phone)
- Y. Alana Bales – HDR (on the phone)
- Z. Many others on phone but did not have a good list (please comment)

II. Secretary Report – *Danny Elsner*

- A. Handed out General Meeting Minutes from January 14, 2016 meeting
- B. Moved to approve and passed unanimously

III. Treasurer Report – *Brad Bettag*

- A. Reviewed Balance Sheet (See attached)
- B. Reviewed Profit and Loss (See attached)
- C. Minor items discussed regarding initial expenses for the year.
- D. Moved to approve and passed unanimously

IV. CRS Comment Letter – *Marsha Hilmes-Robinson*

- A. Discussed the CRS Committee comment letter on the CRS process
- B. Marsha discussed the topics, the purpose of the letter, and next steps

OFFICERS

Chair	Vice Chair	Secretary	Treasurer
Shea Thomas, PE	Brian Murphy, PE, CFM	Danny Elsner, PE, CFM	Brad Bettag, PE
Urban Drainage & Flood Control Dist.	CDM Smith	CH2M	CH2M
2480 West 26 th Ave., Suite 156-B	555 17 th Street, #1100	9189 S. Jamaica St.	9189 S. Jamaica St.
Denver, CO 80211	Denver, CO 80202	Englewood, CO 80112	Englewood, CO 80112
(303) 455-6277	(303) 383-2429	(720) 286-4107	(720) 286-5326
stthomas@udfcd.org	murphybm@cdmsmith.com	danny.elsner@ch2m.com	bbettag@ch2m.com

COLORADO ASSOCIATION OF STORMWATER AND FLOODPLAIN MANAGERS

2480 W. 26th Ave., Suite 156-B

Denver, CO 80211

www.casfm.org



- C. Moved to approve and passed unanimously
- D. CRS Committee will be highlighted at May meeting

V. **ASFPM Update** – *Brian Varrella, Shea Thomas*

- A. 2015 Audit was passed with no material weaknesses or significant deficiencies. All 2014 audit concerns were resolved through process changes at the Executive Office
- B. Board Retreat Summary
- C. 2016 Membership numbers are up 500 over this same time last year
- D. A new Riverine Erosion Hazards discussion paper was upgraded to a White Paper by the Board at the February Retreat. The draft is available online at <http://floods.org/ace-images/ASFPMRiverineErosionWhitePaperFeb2016.pdf> and is the first White Paper published by ASFPM since 2011. Advocacy vs. lobbying; Brian raised this issue as a question at the Retreat. The only obligations CASFM has to avoid a lobbying conflict are to (1) avoid endorsing a political candidate and to (2) avoid financing any campaign. All other activities will be safe and prudent, including advocating for a position on specific legislation. Examples of advocacy from past CASFM events include informing US Senator Udall that CASFM encourages land owners in the 2013 flood zones to purchase flood insurance before the 2014 spring runoff. Bottom Line = CASFM is doing things right!
- E. Conference 5K Contribution - \$500 have been made in the past – no opposition so we will continue with donation
- F. Certification Board of Regents Nomination – Jamie Prochno has been nominated by CASFM to become a Regent.
- G. James Lee Witt Award Nomination – Project award from CASFM Annual Conference (Eco Park) was nominated; winner will be announced at Annual Conference in June
- H. Discussion of the local Floodplain Manager; Brian is endorsing Kim Neiman from Pilger, NE, for her work to help Pilger recover from a tornado in 2014. The entire 1 square mile town is in the SFHA and every building was damaged or substantially damaged. Kim is the Town Clerk, FP Administrator, EMS expert, volunteer firefighter, and building code official. She led by example when repairing her home by elevating above the BFE, not digging a basement, and proving to the community that a tornado safe-room can be constructed above grade and below budget.

VI. **Brochure** – *Brian Murphy*

- A. Brian provided an overview of the new draft brochure for CASFM.
- B. The draft brochure includes information from committee chairs. It was produced by Janae at Olsson.
- C. Comments provided during the meeting included adding job descriptions Officers, adding hyperlinks to each committees to website
- D. Shea said Officers could include a link to the brochure at the bottom of CASFM emails
- E. Brian will coordinate with Janae on edits to the brochure and work with her on updates especially in November following elections.
- F. Next step is to send out to the general public with a comment period till next May meeting
- G. Comments from the general membership will be reviewed and discussed at the May meeting.

VII. **Scholarship Committee Update** – *Jacob James*

- A. CASFM is sponsoring 3 scholarships
- B. Undergraduate, graduate and family scholarship.
- C. 2 to 3 applicants are interviewed

OFFICERS

Chair	Vice Chair	Secretary	Treasurer
Shea Thomas, PE	Brian Murphy, PE, CFM	Danny Elsner, PE, CFM	Brad Bettag, PE
Urban Drainage & Flood Control Dist.	CDM Smith	CH2M	CH2M
2480 West 26 th Ave., Suite 156-B	555 17 th Street, #1100	9189 S. Jamaica St.	9189 S. Jamaica St.
Denver, CO 80211	Denver, CO 80202	Englewood, CO 80112	Englewood, CO 80112
(303) 455-6277	(303) 383-2429	(720) 286-4107	(720) 286-5326
stthomas@udfcd.org	murphybm@cdmsmith.com	danny.elsner@ch2m.com	bbettag@ch2m.com



- D. Undergraduate – undergraduate student in sophomore year or higher in field of water resources \$2500
- E. Ben Urbonas – graduate level student in field closely related to goals of CASFM \$2500
- F. Family – student in sophomore year or higher (including graduate students) who is the child of a CASFM member studying in field of science \$4000
- G. Family scholarship was not awarded in 2015 due to lack of applicants
- H. Will be working on getting more attention to these
- I. Colorado Gives could be possible for funding, however, donations can be received at any time
- J. Fundraiser could also be possible for funding (Raffle at the conference?)

VIII. Conference Planning – Robert Krehbiel

- A. Call for papers and call projects is currently out. Technical presentations due April 29. Project award nominations due June 30. Emily Murphy Siem developed call for papers and awards.
- B. Invited speakers update
 - 1. Chad Pegracke is available for our Wednesday keynote speaker. Chad is the President and Founder of Living Lands & Waters
 - 2. Fee is \$5000 plus travel, but we will try to negotiate to \$5000 including travel
 - 3. Budget for invited speakers is \$5000
 - 4. Featured speaker is usually determined from the technical papers received and has not been decided yet, Scott Sampson (Dinosaur Train – getting kids into nature) was not available. Ian Hyde from the Governor's office of Emergency Management is a potential speaker.
 - 5. Nothing has been finalized so we are open to other recommendations as well
- C. Theme
 - 1. "Changing the World One Drop at a Time", or some variation
 - 2. Will finalize at May meeting with the selection of a keynote
- D. Field Trips
 - 1. Julia Traylor will head up field trips. Options discussed are a walking tour of Crested Butte and discussion of snow storage for water quality.
 - 2. To be discussed further at the May meeting
- E. Entertainment
 - 1. Desire to promote networking during the time slot such as Casino Night. To be discussed at May meeting. Suggestion for a band with dancing.

IX. Other Business – Shea Thomas

- A. PPRPD donation – provided a donation of \$2000 for general use
- B. FEMA Disaster Deductible Concept comments – comments are due March 21
 - 1. Discussion on how to become eligible for FEMA disaster
 - 2. Change to how the disasters are declared based mostly on population
 - 3. CASFM will provide a comment letter concurring with State's comments
- C. Kevin Houck will have Jamie Prochno send State's comments to Shea
- D. Training event contracts
 - 1. Non-compete clause in our language – Outreach and Training Committee to review next steps
- E. CEU credits for Lunch and Learns
 - 1. Policy for having firms receive credits if they have groups attend a lunch and learn
 - 2. Outreach and Training Committee to look into this
- F. Scholarships for workshops
 - 1. Possibly consider offering scholarship in specific pre-determined situations

OFFICERS

Chair	Vice Chair	Secretary	Treasurer
Shea Thomas, PE	Brian Murphy, PE, CFM	Danny Elsner, PE, CFM	Brad Bettag, PE
Urban Drainage & Flood Control Dist.	CDM Smith	CH2M	CH2M
2480 West 26 th Ave., Suite 156-B	555 17 th Street, #1100	9189 S. Jamaica St.	9189 S. Jamaica St.
Denver, CO 80211	Denver, CO 80202	Englewood, CO 80112	Englewood, CO 80112
(303) 455-6277	(303) 383-2429	(720) 286-4107	(720) 286-5326
stthomas@udfcd.org	murphybm@cdmsmith.com	danny.elsner@ch2m.com	bbettag@ch2m.com

COLORADO ASSOCIATION OF STORMWATER AND FLOODPLAIN MANAGERS

2480 W. 26th Ave., Suite 156-B

Denver, CO 80211

www.casfm.org



- 2. Will look into this when budgets are reviewed
- G. Membership & Website
 - 1. Discussion on registration software switch
- H. Younger Members
 - 1. River sweep - more information to come if additional slots are needed beyond the younger members
- I. Committee and Regional Representatives Report (See attached)
- X. **Upcoming Events** – *Shea Thomas*
 - A. March 24/25 – LID and BMP Selection, Design & Economics class
 - B. April 5 – UDFCD Annual Seminar
 - C. April 20 – CRS Committee Meeting
 - D. April 21/22 – FIRM Map Revisions class
 - E. May 4/5, 2016 – Stormwater Chemistry class
- XI. **Next Meeting** – *May 12th, City of Loveland Public Works*
- XII. **Adjourn**

OFFICERS

Chair Shea Thomas, PE Urban Drainage & Flood Control Dist. 2480 West 26 th Ave., Suite 156-B Denver, CO 80211 (303) 455-6277 stthomas@udfcd.org	Vice Chair Brian Murphy, PE, CFM CDM Smith 555 17 th Street, #1100 Denver, CO 80202 (303) 383-2429 murphybm@cdmsmith.com	Secretary Danny Elsner, PE, CFM CH2M 9189 S. Jamaica St. Englewood, CO 80112 (720) 286-4107 danny.elsner@ch2m.com	Treasurer Brad Bettag, PE CH2M 9189 S. Jamaica St. Englewood, CO 80112 (720) 286-5326 bbettag@ch2m.com
---	---	---	---

COLORADO ASSOCIATION OF STORMWATER AND FLOODPLAIN MANAGERS2480 W. 26th Ave., Suite 156-B

Denver, CO 80211

www.casfm.org

Date/Time: Thursday, March 9, 2016, 9:00 AM
Hosted by: CH2M
Location: 9189 S. Jamaica St., Englewood, CO

GENERAL MEMBERSHIP SIGN IN SHEET:

Name	Company	Email
Danny Elsner	CH2M	danny.elsner@ch2m.com
Jacob James	Town of Parker	james@parkeronline.org
Brad Bettag	CH2M	bbettag@ch2m.com
Haley Heinemann	CH2M	haley.heinemann@ch2m.com hheinemann@ch2m.com
Alan Turner	CH2M	alan.turner@ch2m.com
Marica Bertolini	N/A	mbertolini@att.net
Doug Stewart	CH2M	doug.stewart@ch2m.com
SUZZAL KARMACHARYA	CH2M	suzzal.karmacharya@ch2m.com
Sarah Houghland	Michael Baker	shoughland@mbakerintl.com
Jeremy Deischer	ICON	jdeischer@iconeng.com
Jason Messamer	Olsson	jmessamer@olssonassociates.com

Chair
Shea Thomas, PE
Urban Drainage & Flood Control Dist.
2480 West 26th Ave., Suite 156-B
Denver, CO 80211
(303) 455-6277
stthomas@udfcd.org

Vice Chair
Brian Murphy, PE, CFM
CDM Smith
555 17th Street, #1100
Denver, CO 80202
(303) 383-2429
murphybm@cdmsmith.com

Secretary
Danny Elsner, PE, CFM
CH2M
9189 S. Jamaica St.
Englewood, CO 80112
(720) 286-4107
danny.elsner@ch2m.com

Treasurer
Brad Bettag, PE
CH2M
9189 S. Jamaica St.
Englewood, CO 80112
(720) 286-5326
bbettag@ch2m.com

COLORADO ASSOCIATION OF STORMWATER AND FLOODPLAIN MANAGERS2480 W. 26th Ave., Suite 156-B

Denver, CO 80211

www.casfm.org

Date/Time: Thursday, March 9, 2016, 9:00 AM
Hosted by: CH2M
Location: 9189 S. Jamaica St., Englewood, CO

GENERAL MEMBERSHIP SIGN IN SHEET:

Name	Company	Email
Brian Murphy	CDM Smith	murphybm@cdmsmith.com
Shea Thomas	UDFCD	
Craig Jacobson	Icon	cjacobson@iconeng.com
Drew Beck	Matrix	drew_beck@matrixdesigngroup.com
Robert Kneib	Matrix	robertk@matrixdesigngroup.com
Kevin Horck	CWCB	kevin.horck@state.co.us

Chair
Shea Thomas, PE
Urban Drainage & Flood Control Dist.
2480 West 26th Ave., Suite 156-B
Denver, CO 80211
(303) 455-6277
sthas@udfcd.org

Vice Chair
Brian Murphy, PE, CFM
CDM Smith
555 17th Street, #1100
Denver, CO 80202
(303) 383-2429
murphybm@cdmsmith.com

Secretary
Danny Elsner, PE, CFM
CH2M
9189 S. Jamaica St.
Englewood, CO 80112
(720) 286-4107
danny.elsner@ch2m.com

Treasurer
Brad Bettag, PE
CH2M
9189 S. Jamaica St.
Englewood, CO 80112
(720) 286-5326
bbettag@ch2m.com

8:44 PM

03/05/16

Accrual Basis

Colorado Assn of Stormwater and Floodplain Managers, Inc.

Balance Sheet

As of February 29, 2016

	<u>Feb 29, 16</u>
ASSETS	
Current Assets	
Checking/Savings	
10300 · 1st Bank Checking	63,699.25
10400 · 1st Bank CASFM Family Schshp	21,386.60
Total Checking/Savings	<u>85,085.85</u>
Total Current Assets	<u>85,085.85</u>
TOTAL ASSETS	<u>85,085.85</u>
LIABILITIES & EQUITY	
Equity	
30000 · Opening Balance Equity	45,815.00
31500 · Temp. Restricted Net Assets	20,000.00
32000 · Unrestricted Net Assets	-789.15
Net Income	<u>20,060.00</u>
Total Equity	<u>85,085.85</u>
TOTAL LIABILITIES & EQUITY	<u>85,085.85</u>

11:13 PM

03/08/16

Accrual Basis

Colorado Assn of Stormwater and Floodplain Managers, Inc.
Profit & Loss Budget vs. Actual
January through February 2016

	Jan - Feb 16	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
43400 · Direct Public Support				
43410 · Corporate Contributions	0.00	2,000.00	-2,000.00	0.0%
43415 · Scholarships Contributions	4,000.00	4,000.00	0.00	100.0%
43460 · Undergrad Scholarship Donations	2,000.00	2,500.00	-500.00	80.0%
Total 43400 · Direct Public Support	6,000.00	8,500.00	-2,500.00	70.6%
45000 · Investments				
45030 · Interest-Savings, Short-term CD	4.08	50.00	-45.92	8.2%
Total 45000 · Investments	4.08	50.00	-45.92	8.2%
47200 · Program Income				
47230 · Membership Dues	15,500.00	17,500.00	-2,000.00	88.6%
47240 · Annual Conference Fees	0.00	105,000.00	-105,000.00	0.0%
47245 · Annual Conference Sponsorships	0.00	20,000.00	-20,000.00	0.0%
47250 · Workshops Fees				
47251 · Lunch & Learn Training	189.16	1,000.00	-810.84	18.9%
47260 · WQ Field Trip	0.00	2,200.00	-2,200.00	0.0%
47270 · UDFCD Conf Fees	0.00	20,000.00	-20,000.00	0.0%
47280 · Seminars/Training	1,580.00	22,500.00	-20,920.00	7.0%
Total 47250 · Workshops Fees	1,769.16	45,700.00	-43,930.84	3.9%
Total 47200 · Program Income	17,269.16	188,200.00	-170,930.84	9.2%
Total Income	23,273.24	196,750.00	-173,476.76	11.8%
Expense				
62100 · Contract Services				
62110 · Accounting Fees	0.00	2,000.00	-2,000.00	0.0%
62140 · Legal Fees	0.00	500.00	-500.00	0.0%
Total 62100 · Contract Services	0.00	2,500.00	-2,500.00	0.0%
62200 · Dues and Subscriptions				
62210 · ASFPD Dues	500.00	500.00	0.00	100.0%
Total 62200 · Dues and Subscriptions	500.00	500.00	0.00	100.0%
64000 · Annual Conference				
64200 · Annual Conference Costs	0.00	124,000.00	-124,000.00	0.0%
Total 64000 · Annual Conference	0.00	124,000.00	-124,000.00	0.0%
65000 · Operations				
63400 · Membership & Database Coordinat	0.00	1,200.00	-1,200.00	0.0%
63500 · Newsletters	962.50	1,750.00	-787.50	55.0%
65020 · Postage, Mailing Service	0.00	60.00	-60.00	0.0%
65040 · Supplies	0.00	400.00	-400.00	0.0%
65120 · Insurance - Liability, D and O	0.00	2,000.00	-2,000.00	0.0%
65150 · Credit Card Fees				
65151 · Credit Card Fees - monthly	228.32	7,000.00	-6,771.68	3.3%
65152 · Credit Card Fees - (per trans)	530.78	0.00	530.78	100.0%
65153 · Credit Card Fees - UDFCD conf.	0.00	0.00	0.00	0.0%
Total 65150 · Credit Card Fees	759.10	7,000.00	-6,240.90	10.8%
65200 · Website	0.00	2,000.00	-2,000.00	0.0%
65400 · Database Registrations	448.00	2,000.00	-1,552.00	22.4%
68305 · Membership Meetings	0.00	500.00	-500.00	0.0%
70000 · Miscellaneous	0.00	200.00	-200.00	0.0%
Total 65000 · Operations	2,169.60	17,110.00	-14,940.40	12.7%
65500 · ASFPD National Conf	0.00	2,000.00	-2,000.00	0.0%
65900 · UDFCD Seminar	0.00	20,000.00	-20,000.00	0.0%
66000 · Workshops				
66100 · Workshops - Lunch & Learn	0.00	1,500.00	-1,500.00	0.0%
66150 · Water Quality Fieldtrip	0.00	1,500.00	-1,500.00	0.0%
66200 · Workshops - Seminars/Training	0.00	17,500.00	-17,500.00	0.0%
Total 66000 · Workshops	0.00	20,500.00	-20,500.00	0.0%
68000 · Socials				
68100 · Metro Socials (4 w/35 people)	419.18	2,000.00	-1,580.82	21.0%
68200 · Northeast Socials	0.00	1,000.00	-1,000.00	0.0%
68400 · Southeast Socials	0.00	700.00	-700.00	0.0%
68500 · Northwest Socials	0.00	500.00	-500.00	0.0%
68600 · Young Members Social	124.46	500.00	-375.54	24.9%
Total 68000 · Socials	543.64	4,700.00	-4,156.36	11.6%
68800 · Donations				
68920 · ASFPD Foundation	0.00	500.00	-500.00	0.0%
68930 · Reserch	0.00	2,500.00	-2,500.00	0.0%
Total 68800 · Donations	0.00	3,000.00	-3,000.00	0.0%
69000 · Scholarships				
69100 · UWRI Scholarship	0.00	2,500.00	-2,500.00	0.0%
69200 · Ben Urbonas Scholarship	0.00	2,500.00	-2,500.00	0.0%
69300 · CASFM Family Scholarship	0.00	4,000.00	-4,000.00	0.0%
Total 69000 · Scholarships	0.00	9,000.00	-9,000.00	0.0%
Total Expense	3,213.24	203,310.00	-200,096.76	1.6%
Net Ordinary Income	20,060.00	-6,560.00	26,620.00	-305.8%
Net Income	20,060.00	-6,560.00	26,620.00	-305.8%



Committee and Regional Representatives Reports

March 10, 2016

Stormwater Quality – Holly Piza

The SWQ committee has started quarterly meetings. The next meeting will be held April 7, 2016 at the offices of UDFCD. The meeting starts at 8 AM. Remote attendance is also available. If interested, contact Holly Piza at hpiza@udfcd.org.

CRS – Marsha Hilmes-Robinson

The next CRS Committee meeting will be April 20th, 10 AM-Noon at UDFCD. Diana Herrera, the FEMA Region VIII Regional Insurance Specialist will be presenting on flood insurance.

Scholarship – Jacob James

Scholarship Committee – The Scholarship Committee has been working on preparing the undergraduate scholarship that has been funded by CASFM for 2016. The undergraduate scholarship will be awarded this year along with the CASFM family scholarship and the Ben Urbonas graduate scholarship.

Floodplain Management – Jamie Prochno

No report.

Flood TAP – Brian Varrella

No report.

Outreach & Training – Alan Turner, Craig Jacobson

See attached.

Membership & Website – Stuart Gardner

We have 830 members:

- | | |
|------------------------|-----|
| • Corporate Large (11) | 292 |
| • Corporate Medium (9) | 123 |
| • Corporate Small (28) | 213 |
| • Individual | 195 |
| • Student | 7 |

Website: Completed the annual Trustwave Trustkeeper Security PCI Compliance Assessment.

Registration Software: Much to my chagrin - Regpacks hasn't been working out as wonderfully as I had hoped. I still like the concept, and there are certainly several things that I do like, but there are a number of things about it that are cumbersome to implement and unwieldy to use. We can still use it, but I'm keeping my eye out for future replacement alternatives.

Metro Region – Drew Beck

No report.

COLORADO ASSOCIATION OF STORMWATER AND FLOODPLAIN MANAGERS

2480 W. 26th Ave., Suite 156-B

Denver, CO 80211

www.casfm.org



NE Region – Brian Varrella

No report.

NW Region – Betsy Suerth

The NW Region will host a HEC-RAS 2D training in June (see attached flyer).

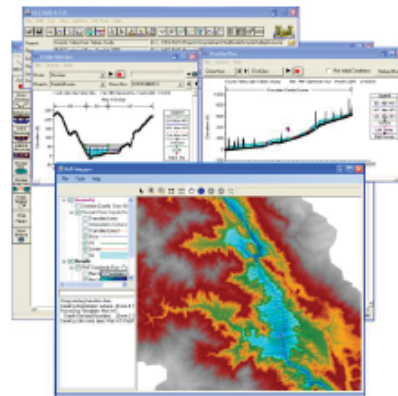
SE Region – Keith Curtis

- 1) Working on CRS submittal, Cycle visit tentatively 4th quarter 2016
- 2) South east Social Spring Fling at Bristol Brewing in April-May details to follow.
- 3) Manitou Springs Hazard Mitigation plan underway
- 4) Monument Creek Masterplan underway (Matrix)
- 5) Numerous Flood Mitigation/Repair projects going on in all jurisdictions
- 6) DFIRMS currently in “appeals” period with no comments to date
- 7) Cheyenne Creek LOMR effective March 7, 2016, just in time for one lucky homeowner to build his dream garage in what used to be the floodway

SW Region – Sam Samuelson

Southwest Region has nothing to report.

HEC-RAS 2D Training
June 13, 14 and 15, 2016
Two Rivers Convention
Center
Adobe/Escalante Rooms
Grand Junction, Colorado



CASFM is pleased to offer an intensive 3-day workshop that prepares water resources professionals to use the HEC-RAS (Hydrologic Engineering Center River Analysis System) for modeling two-dimensional (2D) unsteady flow applications. Dr. Ray Walton from WEST Consultants will lead this interactive small group training. Participants will learn how to approach and construct a 2D model for unsteady flow conditions, and to effectively view and analyze results.

WHO SHOULD ATTEND? Consulting engineers, water resource planners, engineers employed by local, state, or federal government agencies. Participants should have some experience in floodplain hydrology and hydraulics and HEC-RAS steady flow modeling. Familiarity with unsteady flow modeling will be helpful.

COURSE BENEFITS AND OUTCOMES: Participants will:

- Learn to use HEC-RAS to model 2D unsteady flow hydraulics.
- Get an overview of 2D flow theory and the differences between it and 1D modeling.
- Gain hands-on HEC-RAS experience by participating in practical computer workshops.
- Understand how to develop a stable and calibrated 2D flow model.
- Obtain valuable insights in methods for minimizing computation errors and instabilities for 2D unsteady hydraulic models.
- Learn from "real world" projects and applications.

COST: \$550 for early registration by April 15, 2016. \$600 after April 15, 2016.

Refund Policy: A Full Refund (less \$25) is available through May 10, 2016. After that a 50% refund will be available through May 31, 2016. No refunds will be made after that time. Cancellations must be made by contacting Stuart Gardner at stuart.gardner@state.co.us

DATES: June 13 – 15 **TIME:** 8 a.m. to 5 p.m. **LOCATION:** Two Rivers Convention Center, Adobe/Escalante Rooms, 159 Main St, Grand Junction, CO 81501

REMEMBER you must bring your own laptop. Refreshments and snacks will be provided during training. Lunch and dinner on your own.

REGISTRATION: Only 25 spots are available. Reserve your seat at www.Regpacks.com/casfm

Attendees receive 12 CFM CECs. Contact Betsy Suerth at betsysuerth@yahoo.com for information.

Community Outreach and Training General Board Meeting Update March 10, 2016

The Outreach and Training Committee met on February 19, 2016 to review progress on our new sub-committees.

The social media committee continue to update the Twitter feed to the CASFM website and have been populating Twitter and LinkedIn with pertinent and relevant information. In addition, The Social Media Committee is preparing to distribute a survey to the membership asking about the use and preferences regarding social media. The survey will also have a raffle for a \$25 gift certificate to help with participation. Special thanks to Lisa Laver and Emily Murphy Siem

The Younger Members group has continued to be active in building the Younger Members group. Many thanks to Jeremy Deischer for his hard work.

- The group held an initial social on February 17, 2016
 - Approximately 25 people were in attendance
 - A live survey was conducted
 - Total cost was \$105 in addition to Muller Engineering sponsoring \$100 for a door prize giveaway.
- Current activities include
 - Adding a blog on the younger members website page
 - Planning the next networking event
- The younger members group would also like to participate in service projects and are looking at potential participation in the Greenway Foundation South Platte River Cleanup. More to come from the younger members committee.
- The Younger Members website can be found at <http://casfm.wildapricot.org/YMG>

The Community Outreach and Training Committee now has an active web page. This was built in Wild Apricot and can be found at: <http://casfm.wildapricot.org/Outreach>.

Other Items discussed at the COTC meeting

Website:

1. The existing CASFM website has begun to be cataloged. There is a substantial amount of information stored on the website. Once the cataloging is complete, the data on the website will be discussed at the next COTC meeting and placed into categories to be saved or potentially deleted. The plan being to present recommendations to the board at the May Board Meeting.
2. A new website platform is being investigated and recommendations for a new platform will be made at the May Board Meeting.

Outreach to other Professional Organizations:

1. Brian Varrella has worked hard to set up a social that includes both the APA and CASFM.

Training:

1. Thanks to the hard work of Tyler Roseburg and Betsey Suerth we will be hosting a HEC-RAS 5.0 class in Grand Junction from June 13 - 15
2. Stormwater chemistry class scheduled for May 4th and 5th 2016 at UDFCD.
3. It was discussed and Decided that a FLO-2D course will not happen in 2016 but might be offered in 2017

4. There was discussion of a potential class for SRH-2D which would be hosted by Federal Highways. The contact person for the course would be Scott Hogan and provides an additional opportunity for training.
5. We are currently looking for additional people to support Holly Piza with Lunch and Learns moving forward.

The committee will continue having Bi-Monthly meetings continuing in April (off months from General CASFM Meetings).

- The next meeting will be held on February 15, 2016 with the Location to be determined.

Craig Jacobson, P.E., CFM Outreach and Training Co-Chair Principal ICON Engineering, Inc. 7000 S. Akron Street Suite #120 Centennial, CO 80112 cjacobson@iconeng.com (303) 221-0802	Alan Turner, P.E., CFM Outreach and Training Co-Chair Deputy Regional Service Lead CH2M 9189 S. Jamaica Street Englewood, CO 80112 Alan.Turner@CH2M.com (720) 286-0844
--	--