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our newest CFMs! Paisley Marotta Old Hickory Amy Miller Nashville Brian McCain Kingston Springs

> Matthew Fasig Murfreesboro

Zach Hodge Monterey

SCHEDULE OF EVENTS

Floodplain Management Refresher Course October 17, 2018 - 12-4pm Metro Office Building Room TBD 800 2nd Ave S. Nashville, TN 37210 To sign up for this course, contact Roger.Lindsey@nashville.gov

CFM Exam

November 2, 2018 - 1:00pm Wood Environment & Infrastructure, Inc. 3800 Ezell Road, Suite 100 Training Room Nashville, TN 37211 More details on pg.17

West TN Regional Training

December 7, 2018 8:30am - 2:00pm Shelby County Roads, Bridges & Engineering Training Room 6449 Haley Road Memphis, TN 38134 More details at www.TNAFPM.com

State Coordinator's Update

Football season is my favorite time of year; the emotion, the stadiums, the rivalries, and the atmosphere. The Cleveland Browns have finally won a game after a 635 day drought. The fans were elated and even a possum decided to visit the stadium and witness the miracle.

One of the biggest reasons for the team's victory is training camp. New players and coaches acclimate themselves to new teammates, and systems. Learning the playbook, practicing plays and physical conditioning is key to being prepared during a game or getting called up to play.

The same can be said for floodplain management continuing education. Each year, we provide statewide training to local floodplain administrators on a variety of topics. This year we had floodway development and the preparation of hydraulic and hydrologic (H&H) studies. Last year, we conducted FEMA elevation certificate training. Keep in mind that the materials and handouts can be part of your playbook as various stakeholders ask questions or need assistance.

Some additional materials for your playbook:

• Letter of Map Changes will no longer be mailed to you. Therefore, you need to visit the Map Service Center's website monthly to update your community file or GIS database.

https://msc.fema.gov/portal/advanceSearch

 Tennessee State Board of Examiners for Land Surveyors, Chapter 0820-03 Standards of Practice: 0820-03-.11 GLOBAL POSITION SYSTEMS SURVEYS

(1) Global Positioning Systems (GPS) are defined as the navigation and positioning systems that comprise the Global Navigation Satellite System (GNSS), which includes NAVSTAR, GLONASS, GALILEO, COMPASS, and any other satellite-based navigation and positioning systems.

(2) The professional Land Surveyor in responsible charge of the GPS survey shall note on all prepared documents the following information. When a map or document consists of more than one (1) sheet, only one (1) sheet must contain the notes.

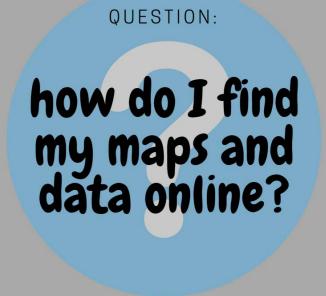
- (a) Type of GPS field procedure, such as Static, Kinematic, Psuedo-Kinematic, Real-time Kinematic, Real-time Kinematic, Real-time Kinematic, and Online Position User Service;
- (b) Relative positional accuracy or other mathematical expression as chosen by the Land Surveyor;
- (c) Dates of survey;
- (d) What datum and epoch coordinates or geographic positions are based on;
- (e) Designation of fixed-control stations and their positional data;
- (f) Geoid model used; and
- (g) Combined grid factor(s).

(3) GPS surveys performed to provide control networks shall be performed in such a manner to obtain a ninety-five percent (95%) confidence level of the positional accuracy of each point relative to the published positions of the control points used.

(4) Fixed station(s) used for the project shall appear on the map, plat, or report. The minimum data shown for each fixed station shall be station name, horizontal position (northing and easting) or latitude, longitude, elevation (ellipsoid or orthometric), and datum and epoch.

https://publications.tnsosfiles.com/rules/0820/0820-03.20180411.pdf

Amy Miller, CFM



All of your community's data can be found online at the following site: <u>https://msc.fema.gov/portal/home</u>

Once at the link above, click on Search All Products

Fill out the State, County, and Community information and click Search.

Tip: The option for "All Jurisdictions" will bring up countywide data. Otherwise, the search results will include data that applies only to the chosen community.

In the example below, Effective, Preliminary, and Historic Products are all available:

Search Results for CHEATHAM COUNTY ALL JURISDICTIONS

Click subscribe to receive email notifications when products are updated.

Please Note: Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

Effective Products (76) ?
 Preliminary Products (32) ?
 Pending Product (0) ?
 Historic Products (132) ?
 Flood Risk Products (0) ?

By expanding any of the items, you can see the item name, date issued, and click a button to download.

Tip: The Map Service Center incorporates LOMRs directly into the DFIRM Database once the LOMRs are effective. On the MSC Website, the DFIRM Database is called the National Flood Hazard Layer (NFHL).

To see which LOMRs have already been incorporated into your community's database, expand the information for the effective NFHL and check the Latest LOMR Effective Date:



NFHL Data-County (1)

Product ID	Latest Study Effective Date	Latest LOMR Effective Date	Size	Download
NFHL_47021C	12/22/2016	10/26/2010	8MB	₽ DL



Thank You to the TN AFPM Board Members whose terms of service have come to a close. We appreciate your service to the organization!



Tennessee Certified Floodplain Surveyor Class of 2018

September 21, 2018; 8:47 AM (CST); West Tennessee AgResearch and Education Center; Jackson, Tennessee

As I write this, serving as a co-proctor, I am watching 24 Tennessee land surveyors complete a 125 question examination on floodplain issues. The test is the culmination of two and one-half days of education dealing with the land surveyor and the vast subject of floodplain management. If the gentlemen are successful in answering 75% and 85% (a two part exam) of the multiple choice questions correctly, they will join the 28 other Certified Floodplain Surveyors in the State of Tennessee.

Day one of the class study is always quite interesting. To the man, practically every individual walks out of the room with huge doe-eyes, obviously suffering from that malady "My Gosh; Everything I've been doing all these years is wrong" disease. Never too far into the first day of instruction, it becomes crystal clear that, for the most part, when doing any sort of flood related work, we have maybe, somewhat likely been practicing outside of our level of competence. Every surveyor knows that he or she can complete Section C (Building Elevation Information) on the Elevation Certificate and can do it with confidence and competence. It is not until being exposed to the proper way of completing all of the remaining sections of the certificate the surveyor loudly proclaims "UH-OH".

Over the next day, the surveyor receives the one/two punch to the gut when exposed to the many details about our role in the National Flood Insurance Program (NFIP), followed by our role in Letters of Map Change (LOMA, LOMR-F, CLOMA, CLOMR-F). Around now is when the surveyors begin realizing the many possible liability issues. The guys are now viewing this as a very, very important aspect in all of our practices and one that requires a full level of professionalism. EC's and LOMA's will no longer be considered a side line source of additional income.

By the third day, all of the fellows are getting comfortable with the actual and crucial task expected of the surveyor in the NFIP. Our profession was not given this responsibility because of convenience. No, FEMA chose the surveying profession with expectations of working closely with us and also expecting a complete and correct product. By the last day of instruction, one can see the changed attitude and new appreciation of our role in flood issues on the faces of the class participants.

We are all quite fortunate to have Amy Miller, NFIP coordinator for the State of Tennessee, take such an interest in us surveyors. Lori does a marvelous job with registration and enrollment and Amy has chosen to shoulder the burden for the bulk of the remaining obligation of organizing this program to date. This year's course instruction was conducted by Brian Bartlett, Benny Moorman, Aaron Sams, Amy and myself. The next time Amy attends one of our meetings, please let her know how much gratitude we have for her work for TAPS and Tennessee surveyors.

The next CFS course and exam will be held in Franklin. Dates and details will be announced at a later date. Also, the first round of CFS participants will be due for re-certification. This year's class had two unlicensed folks attend the entire course work without being tested. If you can't make it, send a trusted technician. I strongly urge anyone dealing in any sort of floodplain commerce, especially any requiring professional certification, to attend the courses, get tested and become a Certified Floodplain Surveyor.

Respectfully, C. Barton (Bart) Crattie, LS, CFS, CFM



ASFPM Floodplain Management Best Practices and Case Studies Compendium

Best practices and case studies are effective tools to highlight State and local initiatives to reduce flood risks at the local and regional level. The ASFPM Floodplain Management Best Practices and Case Studies Compendium catalogues best practices and case studies in a searchable format for online viewing; this will increase accessibility and usefulness to the reader. This project, funded by the ASFPM Foundation, was completed a few months ago and is now ready for prime-time use!

ASFPM's Flood Science Center collected twenty five best practices and case studies that comprise the compendium. This project created a typology that established the means to organize and index case studies associated with best practices. Sources included the ASFPM's No Adverse Impact (NAI) How-to-Guide; "The Nature Conservancy's Naturally Resilient Communities Project;" and the FEMA Cooperating Technical Partners (CTP) mentoring project.

• NAI How-to-Guides:

To further ASFPM's No Adverse Impact[™] initiative, ASFPM developed a series of No Adverse Impact How-to-Guides. These How-to-Guides were developed for each of the Building Blocks in the publication entitled "No Adverse Impact: A Toolkit for Common Sense Floodplain Management."

• Naturally Resilient Communities:

The Nature Conservancy (TNC) contracted with ASFPM to assist in developing a guide and case studies for the mainstreaming of natural infrastructure, such as comprehensive planning, education of developers, relocation of property, the raising of infrastructure, and floodplain regulations, to address coastal and riverine flooding.

• CTP Support:

FEMA contracted with ASFPM to help support the Cooperating Technical Partners (CTP). The CTP Program is a partnership between FEMA and participating NFIP communities, regional agencies, state agencies, tribes, and universities that have the intent and capability to become a more active participant in FEMA's mapping program. The project involved documenting best practices and providing training, such as automatic engineering tasks.

These best practices and case studies can be important and very useful at the State and local levels in designing programs or projects to reduce their flood risks. The Best Practices and Case Studies Compendium can be found at the ASFPM Flood Science Center by <u>clicking here</u>.



<u>Thank You!</u>

NOOGA.

Our Tennessee Association of Floodplain Management (<u>TN AFPM</u>) Board of Directors would like to say "Thank You" for attending our 9th annual conference this past July 25-27, 2018 at the

Chattanooga Marriott Downtown.

EEMA

NATIONAL FLOOD



We hope you found the presentations and information beneficial and we look forward to continued opportunities to provide educational training for floodplain administrators, community leaders, and technical professionals throughout the State. We encourage you to contact members of the Board of Directors, your

Regional Representative, or Committee Chair if you have any questions, suggestions, or interest in a more active role in the

association. Thank you, TN AFPM Board of Directors

<u>Stay In Touch</u>

We encourage you to stay in touch with the many contacts you made during the conference:

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	l		

We hope to see everyone again in 2019!

Many Thanks to:

- Paul Abrams **SmartVent**
- Jacob Bates Wood E&IS
- Bruce Bender Bender Consulting Sevices
- Chad Berginnis ASFPM
- Dan Brubaker NC NFIP Coordinator
- Oliva Elliot Wood E&IS
- Adam Frimel Wood E&IS
- Christina Groves ISO
- Tammy Hansen FEMA Region IV

Our Sponsors:

Our Speakers:

- Brad Heilwagen Wood E&IS
- Roger Lindsey Metro Water Services
- Amy Miller TDFC
- Dale Miller FM Global
- Janice Mitchell FEMA Region IV
- Andrew Morkert City of Collegedale
- Tom Palko Metro Water Services
- Jeff Shaver CFC

- Steve Stello USACE
- Dale Thamure ISO
- Brantley Thames USACE
- Lacey Thomason USACE
- Jaime Tyson AECOM
- Suzanne White TN STS GIS Services
- Carrie Williamson TVA
- Doug Worden TFMA
- Ben Zoeller Barge Design

Our Host Community:

Justin Holland **Director of Public Works** City of Chattanooga, TN



Website Resources

www.tnafpm.com

All Conference presentations are available on the TN AFPM website.

- Click on the "Resources" tab in the main banner
- Select "Documents"
- Use the File Manager structure to navigate to the 2018 Conference folder

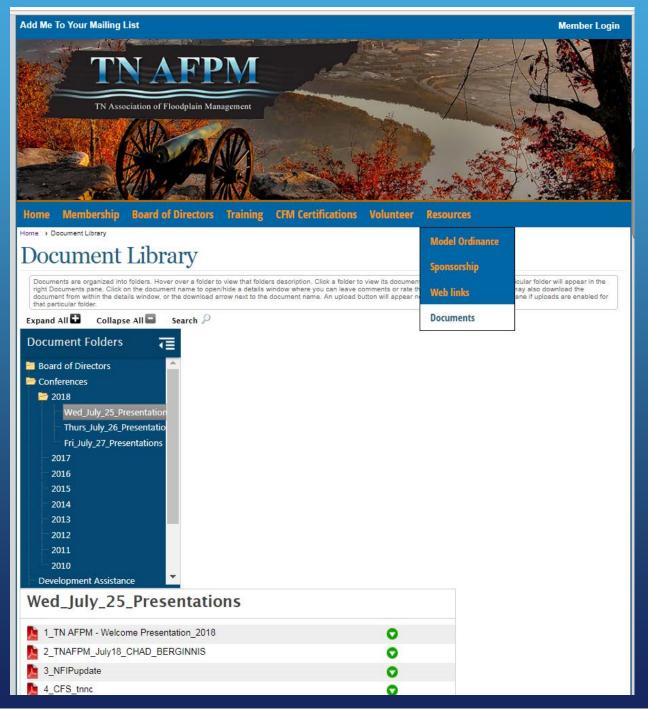


Photo Gallery













Photo Gallery



2018 Conference Feedback

Total Number of Registrants – 133 (our final count and largest conference, yet!) Total Number of Evaluations – 36 (please, tell us more! We value your feedback)

- 1. Overall, the conference met or exceeded my expectations:
 - Strongly Agree 21
 - Agree 15
- 2. Event presenters (sessions and keynote) met or exceeded my expectations:
 - Strongly Agree 16
 - Agree 19
 - Neutral 1
- 3. Presentations were informative and relevant:
 - Strongly Agree 15
 - Agree 20
 - Neutral 1
- 4. The event better prepared me to do my job or perform my role:
 - Strongly Agree 15
 - Agree 19
 - Neutral 2
 - Disagree 1

From items 1 through 4, it appears the conference is meeting the education and training needs of most of our attendees, but our newest floodplain managers have requested more introductory courses. We'll work on tailoring courses for you in 2019!

How did you hear about the conference? (multiple responses)

- Email from TN AFPM Website 16
- Email from Amy Miller 12
- Email from Cindy Popplewell 12
- TN AFPM Website 3
- Professional Contact 5

Email was again the biggest outreach effort, we'll work on publicizing the event through additional avenues in the future.

- 6. Why did you choose to attend this event? (multiple responses)
 - Topics 22
 - Presenters/Speakers 12
 - CEU credit 20
 - Location 11
 - Networking 2

Topics and speakers were a success this year. We'll work hard to continue to bring relevant and requested topics to you in 2019. And great to hear folks are taking advantage of the networking opportunities!

Suggestions for the location of future conferences

- State Parks 10
- Cookeville (TN Tech)
- Murfreesboro (MTSU) 3
- Cool Springs area
- Chattanooga 15 •
- Memphis 3 •
- Knoxville 3
- Nashville
- Jackson •
- Gatlinburg

We'll let you know our destination for 2019, ASAP!

Thanks for the great ideas -

Glad folks enjoyed Chattanooga this year.

For State Parks -

Fall Creek Falls is under construction through 2020.

- 8. Are there any topics you would like to see covered in future events?
 - Elevation certificates 2
 - LOMR's
 - More presentations from local officials
 - TN Dams / Dam Break
 - Low Impact Development and commercial design •
 - Field trips
 - Adjacent State NFIP Coordinators (GA, AL, KY) •
 - More basic information - 3
 - More engaging speakers •
 - Interested in more visuals, photographs and/or videos •
 - Hands-on workshop with segments from L-273 class •
 - Small breakout groups
 - Special shout outs to Ben Zoeller, Suzanne White, Tammy Hansen, Dan Brubaker, Dale • Thamure, Paul Abrams - well done!

9. Any additional comments or concerns?

- Contact list for attendees
- Enjoyed the low carb snacks!
- Help with acronyms
- Thanks for investing your time 8
- Late check-out from hotel
- Coordinate timing of concurrent sessions
- Coordinate with EMA conference
- Sessions ran very long this year
- Include membership dues with conference fee
- Don't use bottled water

Great feedback -We'll include FAQ's and acronyms with next year's conference package.

We're really thrilled with the success of this year's conference and plan to make 2019 EVEN BETTER – Get Ready!

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Thanks again for the great ideas! Yes - we definitely need more hands-on classes and less sitting/listening all day.

We'll work on more activity-based presentations and see what we

can find for a field trip.

Our 2018-2020 Board of Directors

Additional contact information is provided on our website: www.tnafpm.com Click on the "Board of Directors" tab in the main banner

Office	Name	Contact Info
Chair	Roger Lindsey, PE, CFM	roger.lindsey@nashville.gov
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Ex-Officio	Tammy Hansen, CFM	tamara.hansen@fema.dhs.gov

TN AFPM Committees

TN AFPM encourages member participation in all of our committees. If you interested in becoming more involved, please contact the current committee lead:

Conference	Cindy Popplewell, cindy.popplewell@woodplc.com
Membership	William Veazey, tcplanning@bellsouth.net
Newsletter	Jaime Tyson, jaime.tyson@aecom.com
Training	Regional Representatives (see table above)
Website	Vacant, would you like to volunteer?
Social Media	Barrett Fisher, barrettf@hamilton.gov

Certified Floodplain Manager

The Association of State Floodplain Managers (ASFPM) has established a national program for certifying floodplain managers. This program recognizes continuing education and professional development that enhances the knowledge and performance of local, state, federal, and private-sector floodplain management professionals.



The role of the nation's floodplain managers is expanding due to increases in disaster losses, the emphasis on mitigation to alleviate the cycle of damage-rebuild-damage, and a recognized need for professionals to adequately address these issues. This certification program will lay the foundation for ensuring that highly qualified individuals are available to meet the challenge of breaking the damage cycle and stopping its negative drain on the nation's human, financial, and natural resources.

Upcoming Exam Date and Location

November 2, 2018 – 1:00pm, Nashville, TN

Wood Environment & Infrastructure, Inc. 3800 Ezell Road, Suite 100 Training Room Nashville, TN 37211

Registration Information

Application packet, processing, & exam \$450 OR with current ASFPM Membership\$100 (this is membership with the national association, not our State Chapter TN AFPM)

You must register for the CFM Exam through the ASFPM website: www.floods.org

Study Materials

Study materials, including FEMA 480 NFIP Desk Reference and Study Guide are available from the ASFPM website:

http://www.floods.org/index.asp?menuID=215&firstlevelmenuID=180&siteID=1