



## Nebraska Floodplain and Stormwater Managers Association

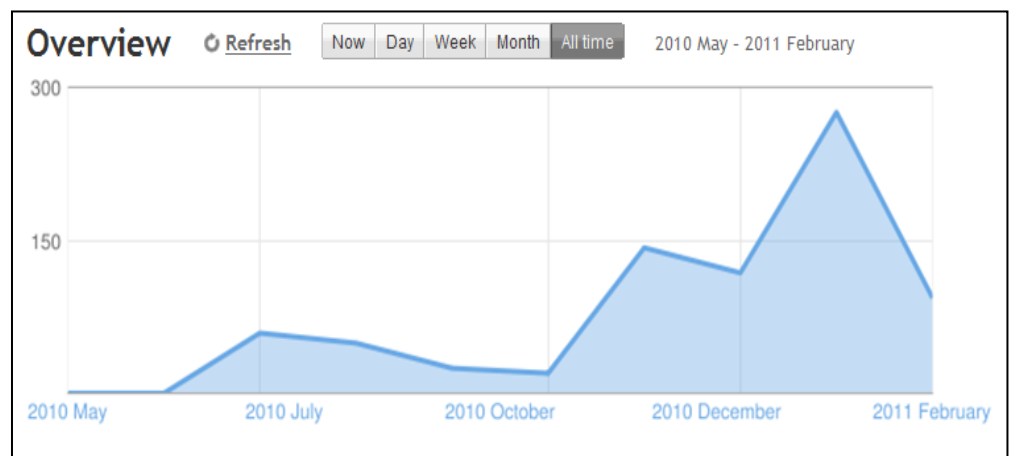
### 2011 Newsletter Volume 1

#### CHAIR'S COLUMN by Jesse Poore

Did you know that approximately **50,000 blogs** are started each day around the world? True! That many people actually think that they have something to say that is worth reading. Most of them crash and burn for myriad reasons, but some succeed beyond expectations. For those of you into Pop Culture, you may have seen the recent movie **Julia & Julia**. The film depicts Julia Child's story of her start in the cooking profession and how it is intertwined with blogger Julie Powell's 2002 challenge to cook all the recipes in Child's first book. See what a simple blog can do? The film about the Julia Challenge grossed over **\$120 million dollars**. Here is the original blog location <http://blogs.salon.com/0001399/> if you are interested. Or, there is the <http://1000awesomethings.com/> blog which was a very small idea that has certainly created a buzz about how to appreciate an "awesome" life. The blog currently has **27,320,836 Hits** and was the winner of the **14<sup>th</sup> Annual Webby Awards**. I'm a big fan of Awesome Things #972 and #383!

In 2010, NeFSMA started Blogging too at <http://nefsma.blogspot.com> as a better way to communicate with our members. Newsletters, *like the one you are reading*, are a dying breed as electronic, fast-paced media becomes the norm. Therefore, **I have challenged your Publication Committee to restructure how the NeFSMA Newsletter is presented to you**. Instead of trying to pack in a bunch of articles that we think you will find relevant, but ultimately may not read, we will be using this newsletter media to communicate what the Association is doing. Read below to get a quick snapshot of what each of our four NeFSMA Committees have been up to and what they are planning in 2011. I hope you will find this change a good one.

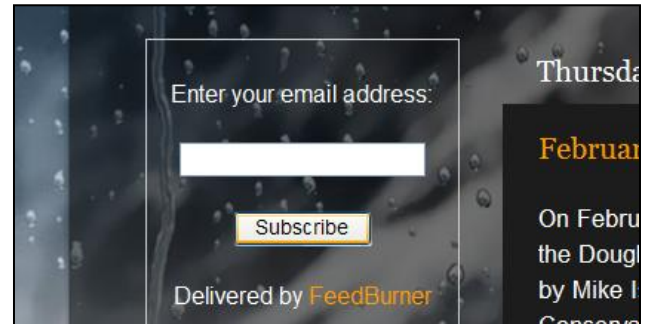
We've used the Blog to distribute a wider range of information to members as we find it rather than waiting for the next Newsletter to be published quarterly. Posts have covered information about research projects, workshop announcements, non-NeFSMA education events of interest, job postings, and project summaries. A summary of our Blog traffic is pictured to the right.





Only about 1/3<sup>rd</sup> of our membership are currently taking advantage of the real power of the NeFSMA Blog. See, you can tell us to send each post directly to your email address. If you don't do that, you will have to remember to go to our Blog.

In 2010, we posted 23 articles that would have come directly to your email address if you had registered your email address. I hope you will take advantage. When you visit <http://nefsma.blogspot.com> you will find our FeedBurner window next to the latest Post. Type the email address where you want to receive information, and then verify you want to receive it by clicking the hyperlink in the confirmation email that FeedBurner sends you. You can unsubscribe at any time using the hyperlink at any email or notifying one of our Board Members.



## 2010 ANNUAL MEMBERSHIP MEETING

NeFSMA's 2010 annual membership meeting was held on November 4, 2010 in Columbus, Nebraska. In addition to several great speakers, the elections were held for the 2011 Board of Directors.

The topics presented at the meeting included:

- **Nate Hartman, Lincoln-Lancaster County Health Department**, reviewed how to determine when a Stormwater Pollution Prevention Plan is required and what should be in that SWPPP.
- **Blayne Renner, Nebraska Department of Environmental Quality**, talked about the upcoming changes to the Nebraska Industrial General NPDES permit.
- **Pat Diederich, Nebraska Department of Natural Resources Dam Safety**, gave an overview of how dams are related to floodplains in Nebraska.
- **Steve McMaster** discussed the **Association of State Floodplain Managers Foundation** which supports the work of National policy, planning and research about floodplain management.
- **Stan Staab, Lower Elkhorn Natural Resources District**, gave a recap of the June 2010 flooding that occurred along the Elkhorn River.
- **Rocky Keehn, SEH**, discussed Bioretention Basics.

The NeFSMA bylaws state the Board of Directors may have up to 15 members. Since NeFSMA is a growing organization run by 100 percent volunteer work, having a larger board to share tasks will be beneficial in the coming year.



## The 2011 Board of Directors

### Officers

**Chair** - Jesse Poore, CFM • **Vice Chair** - Nate Hartman, C.P., R.E.H.S • **Second Vice Chair** – Rock Krzycki •  
**Secretary** – Mike McIntosh, PE, CFM • **Treasurer** – Lori Laster, CFM

### At Large Members

Shawn Smith, CFM • John Cambridge, P.E., CFM • Bill Jones, CFM • John Callen, P.E., CFM • Emily Holtzclaw, P.E., CFM • Bob Carnazzo, P.E., CFM • Bobbi Holm • Jamie Reinke, P.E. CFM • Nina Cudahy • Rocky Keehn, P.E., CFM

## ASFPM

*With excerpts from Deputy Executive Director's Report as seen in ASFPM Insider, January 2011*

NeFSMA is state chapter of ASFPM (Association of State Floodplain Managers). But how much do you know about ASFPM? In the January issue of the ASFPM newsletter, Deputy Executive Director George Reidel gave a summary of ASFPM's activities during 2010. Here is a portion of what he had to say:

*This past year, the Association was heavily involved nationally by working on policy issues dealing with levees, NFIP Reform, Mitigation Programs, COE's Principles and Standards, and Federal budget priorities. ASFPM continues to be involved with and participates on the National Committee on Levee Safety; the Interagency Flood Risk Management Committee consisting of NAFSMA, USACE, and FEMA which discusses national approaches on flood risk management; and with FEMA, the Project Management and Production teams and our mapping partners to discuss Risk MAP. In addition, ASFPM has developed and supported broad coalitions with partners who have common interests and goals such as the Flood Mapping Coalition, Stafford Act Coalition, USGS Coalition, and Insurance Group Coalition, etc.*

*The Association had a busy and productive year internally. The third Gilbert F. White National Flood Policy Forum was held in Washington, D.C. in March 2010. This event brought together over 90 experts in various aspects of floodplain management, economics, water resources, and other related fields to discuss "Flood Risk Management." The Forum participants pondered whether a risk management approach would be an appropriate and more effective way to manage floods and floodplain resources in the future.*

*Internally, ASFPM continues to grow. The membership increased in 2010. There are over 14,000 members including all of our national and chapter members. There are now 29 State Chapters of ASFPM. The CFM Program continued to grow in 2010 as well. Currently, there are over 7,000 CFMs nationwide. During the past year, Reliability and Validity testing of the CFM Exam and Certification Program was completed and a report issued. The Certification Board of Regents (CBOR) is using this report with recommendations to revise and update CBOR's Strategic Plan. This will help ensure the CFM Program continues to maintain a high professional level nationally.*



## NeFSMA FIRST QUARTERLY MEETING 2011

NeFSMA held its first quarterly meeting of 2011 on February 10<sup>th</sup> at the historic Auld Pavilion in Lincoln Nebraska. The meeting was a joint meeting with the Stormwater Awareness Network (SWAN) and was attended by almost 90 people. The meeting featured some great speakers and was offered at no cost and free lunch. Jesse Poore, the NeFSMA Chair, kicked off the meeting with an overview of the goals of NeFSMA and offered a call for abstracts for NeFSMA's 2011 Annual Conference. This is the first year NeFSMA is soliciting abstracts. The five topic areas include: Stormwater Projects, H&H Modeling, Stormwater Management / Water Quality, Floodplain Management, and Watershed Management/Stream Restoration. Please contact NeFSMA for more information on submitting an abstract.

Kathryn Pekarek presented on the UNL Extension Urban Stormwater Grant. UNL is focusing the grant efforts on extension, education and research. UNL is offering several green infrastructure workshops, a new pilot landscaping course with an emphasis on stormwater management, courses on rain garden installation, new publications and many other exciting programs. 2011 will feature new tours of stormwater BMPs and four water series seminars. For more information, please visit <http://water.unl.edu>.

A panel from NDEQ presented a roundtable discussion on planning and permitting for stormwater discharges. The presenters helped to clear the sometimes murky waters of stormwater NPDES Permitting and Total Maximum Daily Loads (TMDL). Stormwater is considered a regulated point source. Per a 2002 TMDL Stormwater Memorandum, the TMDLs do not need to have associated numeric limits. The TMDLs can instead be addressed through specific stormwater BMPs. However, if sufficient information is available, stormwater point sources can be treated with numeric limits. This is already occurring in sensitive areas such as the Chesapeake Bay area. The roundtable members also said to be on the lookout for new EPA stormwater standards for Total Nitrogen and Total Phosphorous.

After lunch, Alison Krohn with the Nebraska Department of Roads presented on the NDOR's experience with the EPA on the I-80 projects. Alison stressed the importance of good documentation throughout the construction process. Gary Lacy and Terry Ullsperger with the City of Lincoln and Chester Black with the City of Omaha presented overviews of their city's NPDES construction programs. Although both City's programs are slightly different, they both had common goals including a comprehensive Stormwater Pollution Prevention Plan, frequent site inspections, proper maintenance of BMPs and good documentation. With EPA fines coming in at tens of thousands of dollars, it is definitely worthwhile to maintain good housekeeping throughout the construction projects. As explained in each of the presentations, EPA inspectors can come through a site at anytime and anywhere.

Jesse Poore concluded the meeting with an overview of the City of Omaha's new efforts to standardize the site inspection process. The inspection process will focus on four categories: design and selection of BMPs, useful life, maintenance and installation. Look for more information on these efforts in the near future.



Thank you to everyone who attended this first annual NeFSMA meeting. We look forward to seeing you at future events. In the meantime, don't forget to sign up for the NeFSMA blog at [nefsma.blogspot.com](http://nefsma.blogspot.com).

## COMMITTEE REPORTS

### **Education Committee – Bobbi Holm, Chair**

The next meeting is scheduled for April 20 at the Douglas/Sarpy UNL Extension Office in Omaha. This meeting is being promoted as the "State-wide Stormwater Round Table." We anticipate our speakers to be Pat Sauer from the Iowa Stormwater Education Program and Holly Piza from Urban Drainage and Flood Control District in Colorado. Representatives from the UNL Extension stormwater grant group will also discuss their resources and opportunities, as will representatives from Phase I and Phase II MS4s in Nebraska. We plan to conclude the day with roundtable discussions on stormwater programs.

For the annual conference we hope to feature Dr. Dennis Mileti from the University of Colorado, or his colleague, as our keynote speaker. The topic would be education to motivate household preparedness and local planning efforts to avoid flood hazards. The Committee will be soliciting abstracts shortly to help identify speakers for the conference.

The Annual Membership meeting is tentatively scheduled for November 3 and this year will be closed to non-members (membership fee may be taken with registration). We will be getting the educational sessions in place for these meetings as the year progresses, so watch for updates.

### **Annual Conference Committee – John Cambridge, Chair**

The date and location for the third annual NeFSMA conference has been set. The conference will be held June 23, 2011 at Mahoney State Park (Interstate 80 Exit 426). Look for additional details in the coming months.

### **Membership Committee – Shawn Smith, Chair**

The Membership Committee is reviewing the results of the NeFSMA survey completed in 2010 and the evaluation forms received from the annual conference to learn how to improve our organization. If you have suggestions or concerns please let us know – we would love to hear from you. We are reaching out to communities and agencies that are not currently members but share common issues and goals.

Membership renewal notices have been sent. Please remember to send yours in if you have not yet done so.

### **Publication Committee – Lori Laster, Chair**

The Publication Committee will be working over the coming year to better communicate with our members. We will be looking at ways to integrate our blog and website to make sure that the most up-to-date information is easily accessible for everyone.



We will also be looking for guest writers and bloggers. If your community is working on a project that would be of interest to our members, please let us know. We would love to feature some of the great projects our members have initiated.

## FLOODPLAIN MANAGEMENT AND BUILDING CODES

Excerpted from Floodplain Manager's Notebook by Rebecca Quinn, January 2011 ASFPM Insider

### Here's Something You Might Find Interesting . . .

Most states and communities that adopt building codes base their codes on the International Code Series® that is developed and maintained by the International Code Council, Inc. The I-Codes have provisions that apply to buildings and structures in flood hazard areas and FEMA has determined that the provisions of the 2006, 2009 and upcoming 2012 editions are consistent with the NFIP regulations.

Communities that enforce a state-adopted building code (and communities that elect to adopt a code) may administer both the codes and a separate set of floodplain management regulations. In recent years, some states and communities are coordinating the codes and regulations to resolve differences, avoid overlap, and to ensure complete enforcement.

Many local code officials are also designated as their community's floodplain administrator. But many of us don't regularly deal with both codes and floodplain management regulations. As the two disciplines are brought together, I've become aware that some terms used in the building codes and by building officials are similar to terms that floodplain managers have used for years. But there are some important differences and nuances to keep in mind. Let's take a look at some of the more significant ones.

**Special Flood Hazard Area and Flood Hazard Area.** The NFIP regulations actually define "area of special flood hazard," but we all call it the SFHA. It's the area shown on Flood Insurance Rate Maps as subject to a one-percent or greater chance of flooding. The I-Codes use the term "flood hazard area" (FHA) which allows communities to adopt a map (or designate an area) other than the FIRM. Enforcement of the flood provisions of the I-Codes is required within flood hazard areas – and at a minimum, FHAs are SFHAs. Why might a community adopt another map? Well, a growing number of communities are developing "future condition" maps that take into consideration anticipated upland development. And sometimes, when significant events exceed the boundaries shown on FIRMs, some communities decide to regulate based on the flood of record. However, for most communities, the FIRM is the adopted map, which means the FHA is the same as the SFHA.

**Base Flood Elevation and Design Flood Elevation.** The Base Flood Elevation is the elevation of the base flood, which is the 1%-annual-chance (100-year) flood. The I-Codes use the term Design Flood Elevation (DFE). The term DFE traces back many years, originating in two standards that are referenced by the codes: ASCE 7 and the first edition of ASCE 24, *Flood Resistant Design and Construction*. Similar to the BFE, the DFE is the elevation of the design flood, and just as the SFHA is related to the FHA, the BFE is related to the DFE. The DFE is always at least the BFE – indeed, the two are exactly the same in the vast majority of communities because



they adopt FIRMs. The DFE is higher than the BFE only in communities that adopt a map that shows flood hazard areas that are greater than the SFHAs shown on their FIRMs. Another twist has started to appear, and that is related to freeboard. Some jurisdictions have modified the I-Codes by putting freeboard into the definition of DFE, for example defining the DFE as BFE+1' or 2'. You can download highlights of ASCE 24 from the web at: <http://www.fema.gov/library/viewRecord.do?id=3515>. (In the near future, this and other building code resources will be available on the FEMA Building Sciences webpage: <http://www.fema.gov/rebuild/buildingscience>.)

**Residential and Nonresidential.** The NFIP regulations have one significant provision that applies depending on whether a building is residential or nonresidential: nonresidential buildings in A zones must either be elevated or floodproofed (not applicable in V zones). But the terms “residential” and “nonresidential” are not defined in the NFIP regulations – and while the distinction seems clear at first, there are plenty of examples of buildings that aren’t easy to classify. The building codes use a different way to distinguish which code applies to which buildings. The International Residential Code is used to regulate one- and two-family dwellings and townhomes, all limited to three stories high. The International Building Code (sometimes called the “commercial” code) applies to all other buildings, called occupancies.

On the surface, it looks like the two codes line up with the NFIP’s distinction between residential and nonresidential. Ah, but it’s not so simple. The IBC’s Use and Occupancy Classifications include Assembly, Business, Educational, Factory, High-hazard, Institutional Mercantile, Storage, Utility and Miscellaneous, and Residential. That last classification, Residential, includes all residential occupancies other than the dwellings that are within the scope of the IRC. What might those be? Well, residential occupancies include boarding houses, hotels, motels, apartment buildings, convents, monasteries, dormitories, vacation timeshares, and certain residential care/assisted living facilities. So the question then, when applying the IBC, is whether those residential occupancies can be dry floodproofed? Since we know the I-Codes are consistent with the NFIP, we can be assured the answer is no. But where do we find that limitation? IBC Sec. 1612.4 refers to ASCE 24, which includes all the familiar design requirements (and more), including dry floodproofing. It’s important to note that ASCE 24 does define the terms “residential” and “nonresidential,” so that it is clear which buildings or portions of buildings can be dry floodproofed. The lesson here is that those of us who deal primarily with NFIP-based regulations should be aware that when we say “residential,” our building code colleagues might think of the IRC, and not realize that floodproofing cannot be used for all buildings that are within the scope of the IBC.

**Critical Facilities and Essential Facilities.** FEMA has done a lot of post-disaster examination of critical facilities – a term that is not defined in NFIP or disaster regulations, but is generally considered to include facilities that house important services that should remain functional even after significant disasters. The NFIP doesn’t have specific requirements for buildings and facilities that serve such vital functions. The IBC defines “essential facilities” as “buildings and other structures that are intended to remain operational in the event of an extreme environmental loading from flood, wind, snow or earthquakes.” In addition, the IBC requires that each building be assigned an occupancy category according to a table that describes four occupancy categories (starting with the 2010 IBC, risk categories will be used). Occupancy Category IV includes buildings



and structures that the emergency management community considers to be critical and essential facilities. The IBC, by reference to ASCE 24, *Flood Resistant Design and Construction*, requires freeboard for Occupancy Category IV structures. The code-required freeboard may or may not result in protection to the 500-year flood elevation. Of course, the floodplain managers among us would prefer to see critical and essential facilities located on higher ground outside of flood hazard areas, whenever possible. The summary of ASCE 24 referenced above includes the table that describes the four occupancy categories and another table that summarizes all of the elevation requirements.

**Livable and Habitable.** Many people use the term “liveable,” but it’s not defined in the code. The term “habitable” is defined in the code. The reason I draw your attention to this is because every now and then someone will say “in a floodplain all habitable (or liveable) spaces have to be elevated.” So, take a close look at the code definition of habitable space: “A space in a building for living, sleeping, eating or cooking. Bathrooms, toilet rooms, closets, halls, storage or utility spaces and similar areas are not considered habitable spaces.” We’re all familiar with the NFIP limitation on enclosures below the BFE – they may be used only for parking of vehicles, building access and storage. It’s easy to see the disconnect – there are certain uses that aren’t habitable spaces, but also aren’t allowed below the BFE. Thus, it is an incomplete statement to say habitable (or liveable) spaces have to be elevated. As repetitive as it may seem at times, when talking about enclosures it’s always best to repeat the allowed uses: parking of vehicles, building access, and storage.

**Crawlspace and Under-floor Space.** Both terms are used but not defined by the building codes. NFIP guidance materials use the term “crawlspace,” but it is not used or defined in the regulations. Both terms refer to a type of foundation that is surrounded by solid perimeter, load-bearing walls. We all know a crawlspace when we see it – it’s the space between the ground (whether earth or concrete/sealed) and the floor system above. But when that space gets taller than three feet or so, what do we call it? It’s rather awkward to refer to a 7 ft high space as a crawlspace. This is where the term “under-floor space” is helpful. FEMA’s revised TB-1 uses the term “full height under-floor space” to describe solid perimeter walls that have enough headroom that the enclosed area can be used for parking of vehicles, building access, and storage.

## NAME THAT NEWSLETTER

How would you like \$25? NeFSMA is looking for a name for our quarterly newsletter. Go to our blog <http://nefsma.blogspot.com> and leave a comment on the “Name that Newsletter” post. NeFSMA members will then have an opportunity to vote on the submitted names. The person who submits the chosen name will win a \$25 Visa gift card.

## FEMA: THE BLOG

ASFPM Insider January 2011

It was only a matter of time, and now the time has come—the Federal Emergency Management Agency has joined the blog rolls. So what can a reader expect from the “first-ever [FEMA blog](#)?” A lot, according to social-





media savvy Administrator Craig Fugate, especially two-way communication. “This won’t be another way to put out our press releases—this is a way to communicate directly with you,” he writes in the first entry. The blog will soon highlight emergency management insights and innovations from FEMA and beyond, Fugate says. Guest bloggers are already volunteering.

**This is HUGE! There are multiple RSS feeds so you can keep up to date on FEMA information, press releases, changes, and updates.**

Check out the NeFSMA blog at <http://nefsma.blogspot.com> for a link to the FEMA blog.

## 2011 ANNUAL MEMBERSHIP DUES

It’s that time of year again. Annual dues for NeFSMA are due. Please fill out the application form (which can be found on our website) and make sure we have your contact information up-to-date. Annual dues are \$35 for individual and \$100 for corporate/organization memberships (allows 2 voting members) plus additional members that can serve as alternates. Please send your application forms and a check made to NeFSMA to Lori Laster, 8901 S. 154<sup>th</sup> Street, Omaha, NE 68138.

## 2011 NeFSMA BOARD MEMBERS

### Officers

**Chair:** Jesse Poore, CFM [jesse.poore@FHUENG.COM](mailto:jesse.poore@FHUENG.COM) **Vice Chair:** Nate Hartman [NHartman@lincoln.ne.gov](mailto:NHartman@lincoln.ne.gov)

**Second Vice Chair:** Rock Krzycki [rkrzycki@lincoln.ne.gov](mailto:rkrzycki@lincoln.ne.gov)

**Secretary:** Mike McIntosh, P.E., CFM [Mike.McIntosh@LRA-INC.com](mailto:Mike.McIntosh@LRA-INC.com) **Treasurer:** Lori Laster, CFM [llaster@papionrd.org](mailto:llaster@papionrd.org)

### Board Members

- Shawn Smith, CFM [ssmith@valley.omhcoxmail.com](mailto:ssmith@valley.omhcoxmail.com) • Bill Jones, CFM [bill.jones@nebraska.gov](mailto:bill.jones@nebraska.gov)
- John Callen, P.E. CFM [jcallen@jeo.com](mailto:jcallen@jeo.com) • Emily Holtzclaw P.E. CFM [Emily.holtzclaw@CH2M.com](mailto:Emily.holtzclaw@CH2M.com)
  - Bob Carnazzo, P.E. CFM [bob.carnazzo@nebraska.gov](mailto:bob.carnazzo@nebraska.gov) • Bobbi Holm [bholm2@unl.edu](mailto:bholm2@unl.edu)
- Nina Cudahy [nina.cudahy@ci.omaha.ne.us](mailto:nina.cudahy@ci.omaha.ne.us) • Jamie Reinke, P.E., CFM [jreinke@oaconsulting.com](mailto:jreinke@oaconsulting.com)
  - Rocky Keehn, P.E. CFM [rkeehn@sehinc.com](mailto:rkeehn@sehinc.com)

Visit NeFSMA on the web at: <http://www.nefsma.net/> or <http://nefsma.blogspot.com>

## NeFSMA: Helping Protect the Good Life

### 2011 Newsletter Volume 2

#### CHAIR'S COLUMN by Jesse Poore

Greetings! I want to keep my column brief this quarter for the single reason that there is a ton of information in this newsletter for you to read. Someone told me awhile back that NeFSMA is growing from a small club to a legitimate association. As 2010-2011 Chair, nothing could make me more proud than to know that is the perception. There is still so much work to do though. At the end of this year we will hold elections and ask for new blood to join us. Would you be interested in a position on the Board or willing to participate on one of our Committees? It is a great benefit to you and your colleagues. Ask any of our Board members about their impressions. Don't take my word for it!

In April, I took the opportunity to connect a child with nature. Specifically, I took an 8<sup>th</sup> grade boy with me on a watershed tour of Antelope Creek in Lincoln, Nebraska. From the top of the watershed to the mouth, it was a fantastic journey. This young man, David M., approached me because I had shared with his class what I do for my job. For some reason he found it interesting and asked if I would show him some of the projects I work on. It was a fabulous afternoon and I was able to show him examples of stormwater best management practices, stream buffers, hard and soft channel protection, natural and constructed wetlands, urban development and redevelopment, property raised out of the floodplain and still resting inside waiting to be flooded. Here is a picture of David immersed in nature and loving it. I don't know what David will become later in life, but I have no doubt that he will always carry with him an appreciation for stormwater and floodplains. Can you think of anyone to teach about stormwater and floodplains? If you don't teach them, who will?



#### Nebraska Statewide Stormwater Roundtable by Mike McIntosh

NeFSMA held its second quarterly meeting of 2011 on April 20. A special thanks goes to the Douglas/Sarpy County Extension office for allowing us to use their facilities. By all accounts, the meeting was a great success. There were over 70 people that attended the meeting. The unique format included an afternoon breakout session which resulted in some great action items.

The first speaker was **Pat Sauer** (below left). Pat is the Stormwater Coordinator for the Iowa Association of Municipal Utilities and the Iowa Storm Water Education Program Administrator. Pat's presentation gave us some great insight into Iowa's storm water programs. A unique aspect in Iowa is their use of a statewide urban design guidance document, "Iowa Statewide Urban Designs and Specifications" or SUDAS as well as a statewide BMP manual, "Iowa Stormwater Management Manual". Iowa also has a stormwater education program that offers quarterly programs for over 34 cities, technical services, sustainable funding and a certification program for site inspectors. Make sure to visit their website at [www.iowastormwater.org](http://www.iowastormwater.org). Pat also was excited about the "Rainscaping Iowa" program which promotes stormwater management practices. The program is offering "Rainscaper" certifications for installers of rain gardens. Visit their website at [www.rainscapingiowa.org](http://www.rainscapingiowa.org). Pat offered some closing inspiration to "Think Big!"



The second speaker was **Ken Mackenzie** (above right). Ken's position is Manager, Master Planning Program of Urban Drainage Flood Control District (UDFCD) in Denver, Colorado. Ken gave a brief background of the evolution of the UDFCD's design criteria manual. Volumes 1 and 2 provide guidance for planning and design of drainage way channels and structures. Volume 3 provides guidance for the selection of stormwater quality and best management practices (BMPs). They decided to completely rewrite Volume 3 in 2010. The manual focuses on a four step process of reducing runoff, treating and releasing it slowly, stabilizing streams and providing source control. During the manual update process, UDFCD sent out questionnaires in order to obtain input on the manual. One noted result from the survey was that 33% of responders were using low impact development practices. The UDFCD would love to see this number increase. Another highlight of the manual update was the development of a BMP Real-Cost tool to analyze BMPs. This tool can be found at through their website at <http://www.udfcd.org/>. If you attended Ken's presentation you found out what schmutzdecke is. If not, make sure to look it up!

After lunch, **Kelley Feehan** the University of Nebraska-Lincoln Extension Educator and **Dave Shelton**, a UNL Extension Agricultural Engineer presented an overview of UNL's stormwater programming action team. UNL received a USDA-NIFA grant in the amount of \$500,000 geared towards improving water quality. Their focus is



on Phase II communities and includes an integrated approach of research, teaching and extension. UNL has published several NEB Guides on stormwater practices and have set up demonstration projects. One of their demonstration projects is located at the Cabela's in Sydney Nebraska. If you have any great ideas for a demonstration project, please let them know about it. You can visit their website at <http://water.unl.edu>.

The final speakers were representatives of the MS4 communities including **Selma Kessler** of Omaha, **Rock Krzycki** of Lincoln, **Annie Folck** of Scottsbluff and **Ron Poe** of the Nebraska Department of Roads. Each speaker gave a short briefing on the status of their MS4 program and challenges they are facing. Selma said that the City of Omaha's BMP manual is currently being updated. They expect to have the new manual available by the end of August. Omaha is also making the permit process easier through an on-line permit process. Rock showed several examples of BMPs throughout Lincoln. The EPA gave Lincoln until the end of this year to implement a PCSMP program. Annie brought up unique issues that Scottsbluff faces as a smaller MS4. The neighboring community (Gering) does not have an MS4 permit, which makes implementation in Scottsbluff more challenging. The NDOR has a unique situation where most of their projects are linear projects. The NDOR is regulated as an MS4 only through MS4 communities. If the communities don't have a program in place, the NDOR requirements will govern. One universal challenge all the MS4 communities face is how to fund and keep up with maintenance on BMPs.

A unique part of this meeting was a break-out roundtable discussion. The attendees were split into two groups, one to discuss hurdles in implementing stormwater BMPs and one that focused on resources that would help with implementing the BMPs. The groups came up with some great ideas and produced action items. One exciting idea would be to create a joint stormwater conference that would bring together all the diverse stormwater groups throughout Nebraska, similar to Iowa's stormwater conference. All of the information gathered during the roundtable session will be organized and published in the near future. Make sure to watch for this important information in the coming weeks and thanks to everyone who attended the meeting!

## **FEMA Changes Mapping Approach to "Without Levee" Analysis**

ASFPM Chapter Alert

FEMA recently announced that they are changing their mapping approach of "without levee" analysis. This change is due to the political pressure from Congress asking that FEMA discontinue the National Flood Insurance Program's (NFIP) use of "without levee" analysis when the levee structure does not meet the regulatory requirements for accreditation and an affected community objects to such analysis in favor of more precise methods of flood modeling.

FEMA has now included this topic as an important consideration in their ongoing NFIP Reform efforts, while exploring short-term resolutions. In addition, FEMA will replace the "without levee" modeling approach with a suite of methodologies that are technically sound, credible, and cost-effective.



FEMA recently produced two publications dealing with FEMA's approach and treatment of levees. These FEMA publications can be downloaded from the ASFPM website at <http://www.floods.org/index.asp?menuID=338>.

## NeFSMA Travel Stipend

Did you know that NeFSMA has a travel stipend program? We will provide two \$500 scholarships per year to NeFSMA members and full-time students who are traveling to conferences to present on a topic that would be of interest to our members. This year, we have awarded one of those scholarships to **Jake Fisher**, a graduate research assistant and UNL. Jake will be traveling to the 2011 World Environmental and Water Resources Congress in Palm Springs, California at the end of May. Below is the abstract Jake submitted for his presentation.

### ***Water Quality Prediction Models for Storm Water Runoff in an Urban Watershed***

*J.R. Fisher<sup>1</sup>, B.I. Dvorak<sup>2</sup>, D.M. Admiraal<sup>3</sup> and A.A. Hosni<sup>4</sup>*

<sup>1</sup>*University of Nebraska–Lincoln, Department of Civil Engineering, Graduate Research Assistant, W181 900 N 16<sup>th</sup> St, Lincoln, NE 68588-0531; email: jfish\_05@hotmail.com*

<sup>2</sup>*University of Nebraska–Lincoln, Department of Civil Engineering, Professor, PhD, P.E., W181 900 N 16<sup>th</sup> St, Lincoln, NE 68588-0531; email: bdvorak@unlnotes.unl.edu*

<sup>3</sup>*University of Nebraska–Lincoln, Department of Civil Engineering, Associate Professor, PhD, W181 900 N 16<sup>th</sup> St, Lincoln, NE 68588-0531; email: dadmiraal2@unl.edu*

<sup>4</sup>*University of Nebraska–Lincoln, Department of Civil Engineering, Research Assistant Professor, PhD, W181 900 N 16<sup>th</sup> St, Lincoln, NE 68588-0531; email: amohamedhosnialyhas2@unlnotes.unl.edu*

### **ABSTRACT**

*Best Management Practices (BMPs) have been implemented by the City of Lincoln within the urban watershed of Holmes Lake in southeastern Lincoln, NE. Water quality and quantity monitoring took place in the Antelope Creek tributary within the watershed (Colonial Hills) and a control site outside the watershed (Taylor Park). Modeling produced empirical regression equations that linked transmittable and frequently obtained parameters (e.g. in-line probes, weather station, flow meters) to other lab intensive water quality parameters. Mass loads were predicted from the models and used to calculate cumulative mass yields at the two monitoring sites for the 2010 sampling season. The yields for total suspended solids at Colonial Hills were twice those of Taylor Park. But for other parameters, including soluble reactive phosphorus, total phosphorus, and E. coli, yields were two to three times larger at the Taylor Park monitoring site. The findings suggested that the BMPs in place within the Holmes Lake watershed may have contributed to the observed differences.*



## COMMITTEE REPORTS

### **Education Committee – Bobbi Holm, Chair**

The Education Committee has been busy reviewing the abstracts that were submitted for the June annual conference. The presenters have been notified and the program is coming together. We plan a conference call to finalize the schedule. We will have a varied program covering topics ranging from floodplain issues to stormwater management green infrastructure. Make sure you take a look at the agenda when the announcement comes out in the next few weeks.

Again, we'd like to thank Pat Sauer, Ken MacKenzie, and the UNL Extension Stormwater Grant Team members Kelly Feehan and Dave Shelton for their presentations at the April 20 roundtable. The discussions brought out several relevant points and hopefully you found the meeting valuable. I encourage you to talk to members of the Education Committee about your thoughts on the success of our efforts and what would be most helpful to you for future educational programs.

### **Annual Conference Committee – John Cambridge, Chair**

The 3<sup>rd</sup> Annual Conference looks to be full of exceptional speakers from around the country. Registration for the event will be limited to 130 attendees this year. **The conference is June 23<sup>rd</sup>**, so don't delay letting us know your intention to attend. The key note speaker this year is Terry Turner – the ASFPM No Adverse Impact co-chair from Augusta, Georgia. Our solicitation for abstracts was a laborious, but fruitful endeavor as we were able to program over 16 sessions that cover diverse and practical topics in floodplain and stormwater management. Included with registration will be entrance into Mahoney State Park and a superb buffet lunch. The full program will be available on the NeFSMA website [www.nefsma.net](http://www.nefsma.net).

### **Membership Committee – Shawn Smith, Chair**

The membership committee has been monitoring the list of past members that have not renewed with NeFSMA in 2011. The list is small, but we want to retain members from year to year. Please speak up if you would like the Association to provide new or enhanced services to members. The membership committee, along with the education committee solicited feedback about the type of information that members would like to see presented at this year's Annual Conference. The survey was posted on our Blog and members were asked to submit their votes. Thank you to everyone that participated in the survey. Your feedback helped with the programming for the upcoming Annual Conference program.

This year, the Annual Conference program has two registration levels. Members will pay \$90 and non-members will pay \$125. The difference in the price covers the fee for an annual membership with NeFSMA. Unless the individual asks not to become a member, NeFSMA will recognize all non-members who register for the conference as members for the remainder of 2011. This is very important because the final meeting of the year (October or November) will be a members-only event and will cost nothing to attend except your membership. You may pay the membership fee to attend, but why not pay for it now and get two events for the deal! This is NeFSMA's newest addition to improving member services and hope it meets with your satisfaction.



### **Publication Committee – Lori Laster, Chair**

As you may have noticed, the newsletter has a new name. Congratulations to Ron Bartlett from City of Omaha for submitting the winning name of **NeFSMA: Helping to Protect the Good Life**.

The publication committee has sent out a Request for Proposal for an update to the website. Our hope is that we can combine our blog and website into one resource that is both accessible for our members and easy for our volunteer board to update and maintain.

As always, we welcome guest bloggers. If you know of a project, event, or interesting news article that may be of interest to our members, please let us know.

### **ASFPM's Flood 101 Initiative** by Mike McIntosh

About a month ago, I attended a conference call conducted by ASFPM that overviewed ASFPM's **Flood 101** initiative. Below is a short summary of the meeting. Please be sure to go to the website listed in the summary and take a look at the information provided. This is great information that can be used when talking or presenting to others about floodplain management issues. The information was developed to help in discussions with congressional members, but it can be used when talking to others as well.

ASFPM has a Congressional Outreach Initiative called Flood 101. The purpose of this initiative is to educate new and existing key members of Congress on floodplain management related issues, provide context for current policy discussions, build support and champions for floodplain management programs and maintain program resources and priority. Flood 101 has set specific goals to perform outreach to 100% of key congressional committee members, labeled as Tier 1 members, by the ASFPM conference and then outreach to as many Tier 2 and Tier 3 members as possible in 2011.

ASFPM is a 501(c)(3) tax-exempt organization that is subject to the requirements of the Internal Revenue Code and the Lobbying Disclosure Act. The Flood 101 Initiative is considered a permissible lobbying activity.

There are several Flood 101 documents available on the ASFPM website at <http://tinyurl.com/3txovkr>. The "Backgrounder" document provides a briefing on floodplain management and flood programs. Feel free to provide it to others as a basic education tool. The "ASFPM Policy Priorities" identifies key policy recommendations from ASFPM on current issues. The "Levees" document provides background information on broad levee issues and provides perspectives on ASFPM position that levees are a tool in the toolbox, but one of last resort. The "NFIP" document provides background and context information on NFIP, identifies success of the program, and current policy issues and key questions for congress to consider.

If you plan to travel to Washington DC to meet with your representative or others, ASFPM can provide resources to assist in scheduling meetings. Contact the ASFPM Washington Liaison, Merrie Inderfurth at



[inderfurth@aol.com](mailto:inderfurth@aol.com). Please give Merrie as much lead time as possible. In conducting meetings, if it is face to face, ask for a 30 minute meeting, but be prepared for an hour or more or less than 15 minutes depending on the circumstances. Make sure to leave behind handouts with a staffer. If possible, supplement all the information with local examples. State examples are good and District examples even better. Be sure to follow-up. Remember that you are building a relationship!

## 2011 NeFSMA BOARD MEMBERS

### Officers

**Chair:** Jesse Poore, CFM [jesse.poore@FHUENG.COM](mailto:jesse.poore@FHUENG.COM) **Vice Chair:** Nate Hartman [NHartman@lincoln.ne.gov](mailto:NHartman@lincoln.ne.gov)

**Second Vice Chair:** Rock Krzycki [rkrzycki@lincoln.ne.gov](mailto:rkrzycki@lincoln.ne.gov)

**Secretary:** Mike McIntosh, P.E., CFM [Mike.McIntosh@LRA-INC.com](mailto:Mike.McIntosh@LRA-INC.com) **Treasurer:** Lori Laster, CFM [llaster@papionrd.org](mailto:llaster@papionrd.org)

### Board Members

- Shawn Smith, CFM [ssmith@valley.omhcoxmail.com](mailto:ssmith@valley.omhcoxmail.com) • Bill Jones, CFM [bill.jones@nebraska.gov](mailto:bill.jones@nebraska.gov)
- John Callen, P.E. CFM [jcallen@jeo.com](mailto:jcallen@jeo.com) • Emily Holtzclaw P.E. CFM [Emily.holtzclaw@CH2M.com](mailto:Emily.holtzclaw@CH2M.com)
  - Bob Carnazzo, P.E. CFM [bob.carnazzo@nebraska.gov](mailto:bob.carnazzo@nebraska.gov) • Bobbi Holm [bholm2@unl.edu](mailto:bholm2@unl.edu)
- Nina Cudahy [nina.cudahy@ci.omaha.ne.us](mailto:nina.cudahy@ci.omaha.ne.us) • Jamie Reinke, P.E., CFM [jreinke@oaconsulting.com](mailto:jreinke@oaconsulting.com)
  - Rocky Keehn, P.E. CFM [rkeehn@sehinc.com](mailto:rkeehn@sehinc.com)

Visit NeFSMA on the web at: <http://www.nefsma.net/> or <http://nefsma.blogspot.com>





## NeFSMA: Helping Protect the Good Life

### 2011 Newsletter Volume 3

#### CHAIR'S COLUMN by Jesse Poore, CFM

"Eventually, all things merge into one, and a river runs through it. The river was cut by the world's great flood and runs over rocks from the basement of time. On some of the rocks are timeless raindrops. Under the rocks are the words, and some of the words are theirs."

– Norman Maclean, *A River Runs Through It*

To rephrase Maclean, "The river was cut by the world's great flood and ran over I-29 and into basements from Gavins Point Dam to Rulo." It is no trivial thing; this flooding of 2011. Nothing that should be forgotten; ever. Mother Nature stepped in this year to provide cross-disciplinary, inter-generational, ultra-dynamic, cost-*ineffective*, life-sized, and real-time education about the impact flooding will have on communities. It presents a short course; a learning lab; with extended learning opportunities. We design our drainage and flood control structures for the 1% chance flood and should not be surprised when nature's elements align to generate a 0.5% chance flood or greater. It is, in a word, inevitable. It is, in another word, painful. Is it preventable?

This situation has created a watershed moment for floodplain and river management. Hard questions will continue to emerge at the rate river levels recede. Questions will be asked of our policy makers in Washington, of our regional resource agencies, of our State officials, of our local municipal departments, of our professional community, of insured and uninsured property owners, and even of the rivers themselves. This is certainly why NeFSMA exists; to coalesce those questions and ensure they don't get lost in the day-to-day duties we all undertake.

Over the next year, I challenge our members to capture the issues and point the spotlight on lessons learned from the 2011 flooding events to improve the outlook for the future. The NeFSMA Board will continue to bring relevant and engaging workshops that address these topics. We invite speakers from the US Army Corps of Engineers, Federal Emergency Management Association, National Weather Service, United States Geological Survey, US Environmental Protection Agency and others to share with us the lessons Agencies learned this year, both good and bad. We also invite communities to share their stories about the planning efforts that have helped to minimize the impacts of flooding, or what should have been done differently. We invite the consulting community to share what they have to offer communities in terms of planning, engineering, and science to protect cities, villages, bridges, agriculture and other assets from the negative impacts of flooding. Finally, we invite our policy makers to share what they are doing to improve the levee certification program, National Flood Insurance Program, hazard mitigation planning and other critical programs.

Let us know if you accept this open invitation or have a recommendation for a speaker or a topic we can follow up on. Send an email to [nefsma@hotmail.com](mailto:nefsma@hotmail.com). NeFSMA is “member-driven” which means that if it is a priority to you, then it is a priority to us. We have a wonderful group serving as your Board of Directors, but I want you to know that anything good that has come from NeFSMA over the past seven years has resulted from member input, feedback and participation. We look forward to hearing from you.

### Notice of Elections

Elections this year will be completed through nominations/volunteers and ballot voting. Be on the lookout for an email later this fall. The newly-elected board will be announced at our Annual Membership Meeting. If you are interested in participating on our board, please send an email to [nefsma@hotmail.com](mailto:nefsma@hotmail.com).

### Third Annual Conference Held at Mahoney State Park – Amanda Grint, P.E., CFM

NeFSMA’s annual conference was held this year on June 23, 2011 at Mahoney State Park. There was a great turnout with a wide variety of topics presented ranging from floodplain management to water quality to stream restoration with an informative key note address by Terri Turner, ASFPM, on No Adverse Impact. On the forefront of everyone’s mind was the monumental flooding on the Missouri River. Such events remind us of the importance of floodplain and stormwater management.



Tom Bentley, Community ReDesigned and Brian Williams, ASP Enterprises speak about the Common Grounds Best Management Practices (Elkhorn, Nebraska)

Several presentations addressed new products that are available to project the risk of flooding and to portray that risk in a meaningful way to the public. Presentations from FEMA, USGS and Olsson Associates on the use of HAZUS software all demonstrated that better tools exist and can be used to better inform and educate the public on potential flood risk.



Terri Turner, ASFPM No Adverse Impact Committee Co-Chair, gives the Keynote Address

The keynote address of the conference informed the group on the philosophy of No Adverse Impact floodplain management. This guiding principle takes place when the actions of one property owner are not allowed to adversely affect the rights of other property owners. This can be in terms of increased flood peaks, stages, velocities, sediment and erosion or any other impacts. As stated in the key note address, when this approach is followed it will mitigate the losses, costs and human suffering associated with flooding while also promoting the beneficial functions of the floodplains.

Overall, the conference was a great success. Thanks to all the members of the Annual Conference and Education Committees for their hard work in putting together a great conference!

### **Re-issuance of the Nebraska Industrial Storm Water General Permit – Blayne Renner, NDEQ**

The Nebraska Department of Environmental Quality re-issued the Industrial Storm Water – General Permit (General Permit NER900000) on July 1, 2011. The previous general permit, General Permit NER000000, had



been administratively extended for a number of years. The re-issuance of the general permit comes with a more prescriptive approach to industrial stormwater permitting which is modeled after the USEPA Multi Sector General Permit (2008 MSGP). Industrial activities have been reorganized into sectors to group industrial activities into similar categories of activities. Sector specific requirements have been included for each regulated sector.

Currently permitted facilities will have until January 1, 2012 to review and modify Storm Water Pollution Prevention Plans and submit the Notice of Intent. Facilities will have an additional 6 months to determine appropriate monitoring locations and commence monitoring, if applicable.

Currently permitted facilities will notice many changes between the two general permits. Greater emphasis has been placed on the receiving waters to which a facility discharges stormwater. Permittees are now required to determine the designated segment to which stormwater discharges. The designated segment will not be adjacent to the facility in most cases. For instance, a facility may discharge to a county road ditch or intermittent drainageway prior to discharging to the designated segment (i.e. Willow Creek, EL3-20300). Once the designated segment has been determined, facilities will need to determine if the receiving water is a 'special water' or impaired for one or more pollutant. Permittees discharging to impaired waters will be required to further evaluate their discharges and may be required to conduct monitoring of the discharge for the impairment pollutant.

Some of the changes to the new permit will include the previously mentioned monitoring requirements. Monitoring requirements which have been incorporated into the new permit include Impaired Waters Monitoring, Benchmark Monitoring, and Additional Monitoring. Additional Monitoring will only be necessary if a facility is notified by the NDEQ that additional information is required. Benchmark Monitoring requirements are identified within the Sector Specific Requirements and vary by sector and subsector.

Other changes to the general permit include: a list of allowable non-stormwater discharges, requirements to notify certain municipalities who hold NPDES Municipal Storm Water permits with the Department, requirements related to threatened and endangered species for new and expanded dischargers, increased frequency of self inspection requirements, visual assessments of stormwater discharges, exceptions for inactive and unstaffed sites, and specific site map requirements, among others.

Current permittees will also notice several significant changes to the Notice of Intent (NOI). The new NOI will provide for only one mailing address which will serve as the contact for all future correspondence. The new NOI also requests information regarding receiving waters, non-stormwater discharges, as well as GPS location in the decimal degrees format (for example: Latitude 40.812512° N, Longitude 96.703264° W). Facilities will need to submit the NOI along with the Site Map as outlined in Part 5.1.2. of the general permit to the Department. The Storm Water Pollution Prevention Plan is to remain accessible to the Storm Water Pollution Prevention team on site, which may be an electronic format, and submitted to the Department when requested.



Along with the re-issuance of the general permit, the Department has removed the categorical restrictions for eligibility for the No Exposure Conditional Exclusion from Stormwater Permitting. No Exposure Certification will no longer be restricted to facilities categorized as Light Industry. No Exposure Certification is an option for all facilities which can certify that industrial materials and activities are not exposed to stormwater. The Department is requesting that all previous No Exposure facilities resubmit the new No Exposure Certification form to assure that all facilities are up to date.

The new general permit can be found on the Department's website at <http://www.deq.state.ne.us/> or with the direct link at:

<http://www.deq.state.ne.us/Publica.nsf/5ab8e6054553df8186256877005847d1/9c04cb7b875b5a0b8625687400613d3b?OpenDocument>

### **NeFSMA Travel Stipend**

Did you know that NeFSMA has a travel stipend program? We will provide two \$500 scholarships per year to NeFSMA members and full-time students who are traveling to conferences to present on a topic that would be of interest to our members. This year, we awarded one of those scholarships to Jake Fisher, a graduate research assistant and UNL. Jake presented "Water Quality Prediction Models for Storm Water Runoff in an Urban Watershed" to the 2011 World Environmental and Water Resources Congress in Palm Springs, California at the end of May. Jake will be attending our Annual Membership Meeting to give us an overview of his presentation.

### **COMMITTEE REPORTS**

#### **Education Committee – Bobbi Holm, Chair**

The annual membership meeting will be in late October or early November. This meeting will be free to members and held at the New World Inn in Columbus. We are working on lining up speakers and plan to have presentations on storm water and floodplain management. The newly elected board of directors will also be announced.

We are exploring the possibility of working with the Nebraska Planning and Zoning Association to offer a floodplain management session in conjunction with their spring conference. This would help us reach those in planning and zoning whose duties also include floodplain administration. NeFSMA also has the opportunity to become a provider of Certification Maintenance credits for planners. If approved by the board, the committee will structure some of NeFSMA's future educational offerings to fit the needed requirements.

We welcome your feedback on past meetings and input for those in the future. Feel free to contact any member of the Education Committee.



### **Annual Conference Committee – John Cambridge, Chair**

The Annual Conference Committee is looking forward to next year. The Committee has been encouraged by the consistent attendance and diversity of information shared at each of the three previous conferences. In 2012, NeFSMA is considering extending the length of the conference to 1 ½ days. This is based on feedback from attendees as well as candid comments we have received that there is not enough time to socialize with colleagues. We have also learned that attendees felt the cost to attend the conference was a great value for the amount of information learned. The cost was a bit higher this year, but did not receive feedback that the cost prevented anyone from attending. The conference location tends to rotate around the State and a location has not been chosen for 2012. If you have a preference that the Committee should consider, please submit that to [nefsma@hotmail.com](mailto:nefsma@hotmail.com). We've been to Lincoln, Kearney, and Ashland, Nebraska. Where should we go next?

### **Membership Committee – Shawn Smith, Chair**

The membership committee has been working on ballots for the upcoming election of the NeFSMA Board. The positions of Chair, Vice Chair and Treasurer require a transition this year. There is also the possibility of transition for the offices of Second Vice Chair and Secretary as well as At Large Board Members. If you would like to serve on the board or wish to nominate someone please contact one of the membership committee members.

Jesse Poore - [jesse.poore@fhueng.com](mailto:jesse.poore@fhueng.com)

Shawn Smith – [ssmith@valley.omhcoxmail.com](mailto:ssmith@valley.omhcoxmail.com)

Jamie Reinke – [jreinke@oaconsulting.com](mailto:jreinke@oaconsulting.com)

### **Publication Committee – Lori Laster, Chair**

In our last newsletter, we reported that a Request for Proposal had been sent out to update the NeFSMA website. We are pleased to announce that TR Creative of Omaha has been awarded the contract. Throughout the next couple of months, we will be working to update our current website and integrate our blog in order to have one place where our members can get all current NeFSMA News.

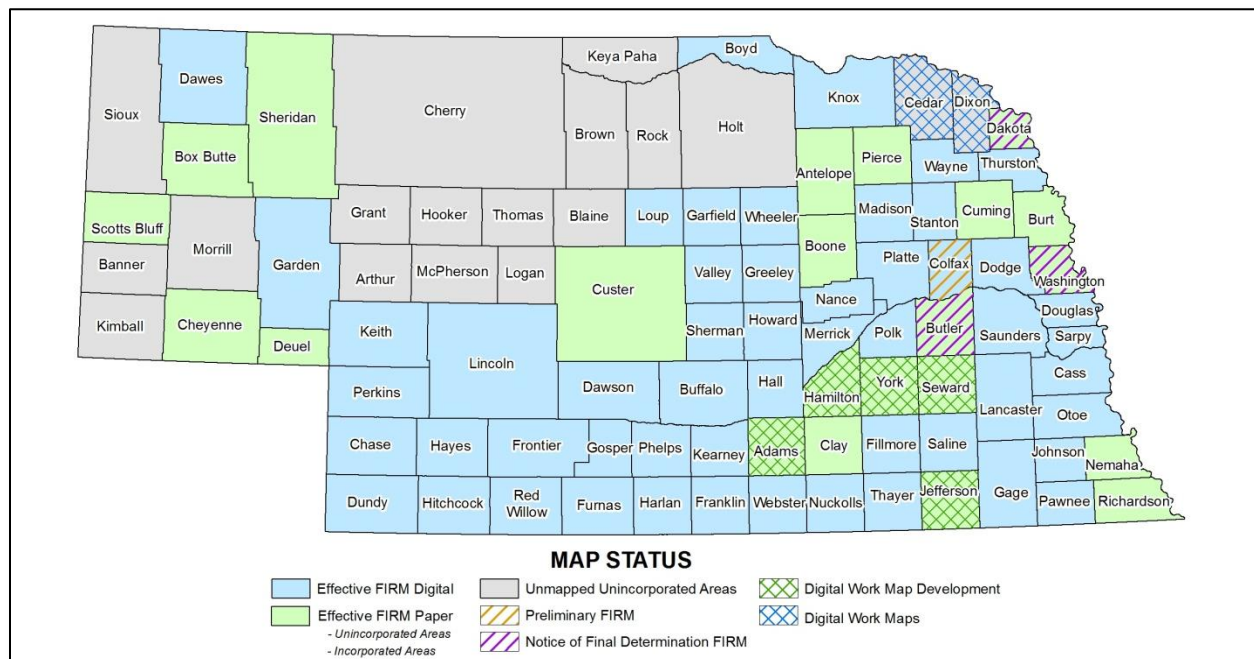
## **Nebraska Floodplain Mapping Status – Crystal Lesmeister, P.E., CFM**

One of the most common tools for floodplain management is the floodplain map. A floodplain map shows floodplain delineations and helps determine flood risk. As the state agency responsible for all matters pertaining to floodplain management in Nebraska, the Nebraska Department of Natural Resources (NDNR) has an active role in producing and providing floodplain maps to Nebraska communities. For over ten years NDNR has participated in the Federal Emergency Management Agency (FEMA) Cooperating Technical Partners (CTP) program to create Flood Insurance Rate Maps (FIRMs). A FIRM is the official map of a community on which FEMA has delineated both the special hazard areas and the risk premium zones applicable to the community. A FIRM digitally storing Geographic Information System (GIS)-based attributes in a spatial database is called a Digital Flood Insurance Rate Map (DFIRM). While many of these maps are the result of NDNR's partnership

with FEMA, it is important to note that others are the result of partnerships with other Nebraska CTPs like the Pappio-Missouri River Natural Resource District and the City of Lincoln.

As shown in the figure, 52 of Nebraska's 93 counties currently have effective DFIRMs. That number will increase later this month when Butler County becomes effective and again when Dakota and Washington Counties go effective in January 2012. DFIRMs are available through NDNR's Interactive Floodplain Map at <http://maps.dnr.ne.gov/Floodplain/default.aspx>.

Also shown on the figure are the NDNR Digital Work Maps. NDNR produces Digital Work Maps for unmapped counties as time and resources are available. These maps are prepared according to the FEMA *Guidelines and Specifications for Flood Hazard Mapping Partners* with the intent of being accepted and published by FEMA as DFIRMs in the future. Through the support of a Community Development Block Grant from the Nebraska Department of Economic Development, NDNR is currently producing Digital Work Maps for five counties: Adams, Hamilton, Jefferson, Seward, and York. These maps are expected to be completed prior to 2012.



### ASFPM Annual Conference – Mike McIntosh, P.E., CFM

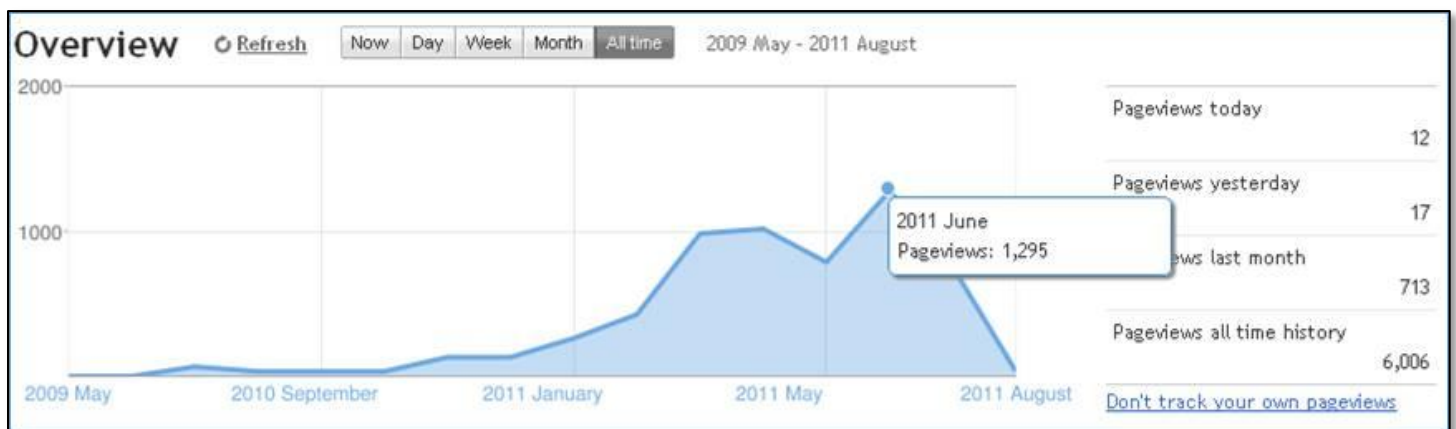
This year's annual ASFPM conference "The Winning Ticket" was held from May 15<sup>th</sup> to the 20<sup>th</sup> in historic Louisville Kentucky, one week after the running of the Kentucky Derby. The conference was held at The Galt House, the official hotel of the Derby in beautiful downtown Louisville. The Kentucky culture of horse racing, baseball bats and bourbon seemed to permeate everywhere you went. Things got kicked off with a welcome fest on Sunday night with authentic Kentucky fare and live bluegrass music. This was a great chance for experienced attendees to see people they hadn't



seen since last year and for new people like me to meet new friends. The overall conference was split into eight different tracks including Rivers, Lakes and Oceans, National Flood Insurance Policy, and Levees and Dams just to name a few. The amount of great information offered is almost overwhelming. Fortunately, they offer a first timer orientation to help organize the sessions. Some of the highlight breakout sessions I attended included a mapping success story in Jacksonville Florida where they have incorporated advanced unsteady modeling into their floodplain program and another which looked at the significance of the 2010 Pakistan Floods and the impacts if a similar event happened over the Missouri River basin. The conference offered many great plenary sessions with highlighted speakers. My favorite was a discussion by the Mayor of the City of Napa in which she described amazing green infrastructure and stormwater elements that the City has incorporated in downtown Napa. Go for the wine and stay for the BMPs! As with many conferences, ASFPM offered many off-site tours and events. Tours included a canoe and cave trip, a downtown Louisville walking tour, a lock and dam tour and many more. One of the highlights was a tour of Churchill Downs to watch the horses work-out. The conference wrapped up with a social night on Fourth Street Live, a great nightlife area in downtown Louisville. As a first timer, I highly recommend attending a national conference. It is a great way to learn the inner workings of ASFPM. What better way to start then next year in San Antonio! We hope to see you there!

### NeFSMA Blog

By now, I'm sure you've all heard about our blog. But do you know how much traffic our blog is getting? In the month of June, our blog received over 1,200 pageviews. As shown in the figure below, our blog traffic continues to increase. We will continue to utilize this avenue to get information to our membership in a timely manner. But, we would love to focus on some local projects and experiences. If you're working on a stormwater of flood management project, we would love to be able to showcase it. Send your submissions to our Publication Committee at any time.







## 2011 NeFSMA BOARD MEMBERS

### Officers

**Chair:** Jesse Poore, CFM [jesse.poore@FHUENG.COM](mailto:jesse.poore@FHUENG.COM) **Vice Chair:** Nate Hartman [NHartman@lincoln.ne.gov](mailto:NHartman@lincoln.ne.gov)

**Second Vice Chair:** Rock Krzycki [rkrzycki@lincoln.ne.gov](mailto:rkrzycki@lincoln.ne.gov)

**Secretary:** Mike McIntosh, P.E., CFM [Mike.McIntosh@LRA-INC.com](mailto:Mike.McIntosh@LRA-INC.com) **Treasurer:** Lori Laster, CFM [llaster@papionrd.org](mailto:llaster@papionrd.org)

### Board Members

- Shawn Smith, CFM [ssmith@valley.omhcoxmail.com](mailto:ssmith@valley.omhcoxmail.com) • Bill Jones, CFM [bill.jones@nebraska.gov](mailto:bill.jones@nebraska.gov)
- John Callen, P.E. CFM [jcallen@jeo.com](mailto:jcallen@jeo.com) • Emily Holtzclaw P.E. CFM [Emily.holtzclaw@CH2M.com](mailto:Emily.holtzclaw@CH2M.com)
  - Bob Carnazzo, P.E. CFM [bob.carnazzo@nebraska.gov](mailto:bob.carnazzo@nebraska.gov) • Bobbi Holm [bholm2@unl.edu](mailto:bholm2@unl.edu)
- Nina Cudahy [nina.cudahy@ci.omaha.ne.us](mailto:nina.cudahy@ci.omaha.ne.us) • Jamie Reinke, P.E., CFM [jreinke@oaconsulting.com](mailto:jreinke@oaconsulting.com)
  - Rocky Keehn, P.E. CFM [rkeehn@sehinc.com](mailto:rkeehn@sehinc.com)

Visit NeFSMA on the web at: <http://www.nefsma.net/> or <http://nefsma.blogspot.com>



## NeFSMA: Helping Protect the Good Life

### 2011 Newsletter Volume 4

#### CHAIR'S COLUMN by Jesse Poore, CFM

Greetings, NeFSMA members. I wish for a joy-filled New Year for each and every one of you. The New Year is always a good time to pause and think about new goals, resolutions, and habits you want to make. What were your goals two years ago? Did you write them down? How have you done? In my first Chair's Column almost two years ago, I listed three goals that would direct my efforts moving forward. I believe that process was a substantial ingredient in our recipe of success over the past two years as a Chapter.

1. *Make sure that the administration of the Association our 501(c)(3) status is in proper working order.*
  - a. *Update our bylaws* – Minor possible changes have been identified that will better reflect how our Association operates and how membership benefits are provided. All recommended changes must be brought to the membership for a vote which would likely occur at the Annual Membership meeting in 2012. Watch for advance notice of recommended changes in the middle of the year. There will be an associated legal cost to update the bylaws, so I ask the current Board to make sure we don't have to go back again in a couple years to make additional changes.
  - b. *Examine our financial management efforts* - As Treasurer in 2009, I began to improve the tools used to manage the finances of the Association including improving the ledger system, line-item budgeting, and quarterly Treasurer's reports. This has continued and has been improved over the past two years with the dedicated efforts of Lori Laster. This past year, we took a bold step to advance an annual Education Budget for the first time. Bobbi Holm helped to facilitate this inaugural effort with me which enabled us to make advance planning and promotion of events a great benefit for members and sponsors. I believe we are a much more fiscally accountable Association and have a lot of tools to build from in the coming years. It has become apparent, though, that we must take on the services of a qualified tax consultant that specializes in the needs of non-profits like us. In 2009 I began to bring our taxes into compliance with State and Federal regulations. Our members deserve to have qualified representation in this area and a professional will also help inform the Board of any ways we are out of compliance with our bylaws. This will also be a cost that the Association will need to incur, but it is a cost that we are mature enough to afford at this time.
  - c. *Explore our insurance needs* – During 2010, Shawn Smith assisted in the effort to explore insurance options for our Association. I'm sure it was the highlight of her year! Through that process though, we were able to identify the appropriate policy for our Association and the Board. The Board will need to continue to evaluate the coverage we maintain on an Annual basis through our assigned representative at The Harry A. Koch Company.



2. *Improve the leadership of our Association through the use of Committees.* This effort began by designating a Committee leader, establishing basic descriptions of what each Committee is responsible for, and asking Committees to meet throughout the year apart from the full Board meetings. What follows is meant to inform you about the current Committees, but also challenge you to find ways to become more involved with the Association. You do not need to be a Board Member to participate on a Committee. Our current committee roster has 31 volunteer spots filled. This was probably our greatest accomplishment over the past two years.
  - a. **Education** (Rock Krzycki) – Responsible for identifying topics, speakers and meeting locations. Coordinate Continuing Education Credits for ASFPM and all other necessary credential-supporting credits in advance of meetings. Also coordinates all resources needed for the day of workshops, tours, and meetings (e.g., projectors, registration desk, receipts, name tags, transportation, food, etc.). Supports Annual Conference by preparing conference packets, staffing the registration desk, and assisting with tasks as directed by Annual Conference Committee Chair. Coordinates Annual Conference tracks, abstract submittal and review, and outreach to potential speakers for the Annual Conference including Key Note Speakers.
  - b. **Membership/Capacity Building** (Jamie Reinke) – Responsible for retaining membership and recruiting new members and coordinating with agencies, organizations, businesses, others that share a common target audience or target audience service. Coordinates sponsorships for events, vendors, and scholarship/stipend offered by NeFSMA. Annually solicits nominations for Board Members between September and October and coordinates voting procedures.
  - c. **Publications** (Mike McIntosh) – Responsible for Newsletters, the NeFSMA website and the NeFSMA Blog. Ensures content is up to date and relevant for membership.
  - d. **Annual Conference** (John Cambridge) – Responsible for coordinating all logistics with event location staff (e.g., location, food, rooms, seating, parking, etc.) related to the NeFSMA Annual Conference held in conjunction with NDNR. Provides cost estimates to Education Committee so registration fee can be established by April 1 each year.
3. *Demonstrate the value of proper floodplain and stormwater quality planning to municipal officials, developers, engineers, real estate agents and anyone else who will listen.* Over the past two years, NeFSMA has found that the membership Target Audience looking for floodplain and stormwater education and information is pretty consistent. We are seeing consistent attendance at all of our events, including our Annual Conferences. Outside the Target Audience, though, is our Focus Audience. This is the group that is not currently members, or is impacted by the information that NeFSMA members need to know. To reach out to the Focus Audience, it is imperative that the Board continue to look for opportunities to co-sponsor content relevant events where the Focus Audience will be attending. Two examples are the Substantial Damage Estimation workshop that NDNR provided in 2011 and the Nebraska Planning and Zoning Association conference that will be held in Grand Island next March. These efforts may result in additional membership, but most importantly will allow NeFSMA to communicate the important floodplain and stormwater messages to a wider audience.

It is fun to look back and see what ground has been covered and what could be done better. Take time to write down your goals for the coming year if you haven't already. I hope that they challenge you and inspire those around you.



## NeFSMA Announces 2012 Board of Directors

NeFSMA's 2012 Board of Directors was announced at the October 20, 2011 Membership Meeting.

Chair – Lori Laster	At-Large – Bob Carnazzo	At-Large – Bill Jones
Vice-Chair – Rocky Keehn	At-Large – Emily Holtzclaw	At-Large – Nate Hartman
2nd Vice-Chair – Rock Krzycki	At-Large – John Cambridge	At-Large – Craig Wacker
Treasurer – Bobbi Holm	At-Large – Jamie Reinke	At-Large – Dave Shelton
Secretary – Mike McIntosh	At-Large – Nina Cudahy	At-Large – Ellen Wright

We would like to thank our outgoing board members, Jesse Poore, Shawn Smith and John Callen, for all their hard work throughout 2011.

## Upcoming Training Opportunities

### March 20-21, 2012

#### University of Nebraska-Lincoln East Campus, Hardin Hall

Sponsored by City of Lincoln Watershed Management, Lower Platte South NRD, City of Scottsbluff, Nebraska H2O, Nebraska Forrest Service, Omaha Stormwater Program, Nebraska Statewide Arboretum, UNL Extension

**Nebraska Post-Construction Stormwater Workshop** on March 21, 2012 and pre-workshop Bioretention Short Course on March 20, 2012. The workshop is intended to provide an opportunity for stakeholders to exchange information, resources and technology in the field of post-construction stormwater management.

The goal of the conference is to *increase the knowledge and capacity of participants in the areas of design, implementation, policy and education in the field of post-construction stormwater management.*

#### Presentation tracks will include:

- BMP Case Studies
- Research Topics
- Stormwater Management Policy
- From the Developer: Low-Impact Development

Please see the Call for Presentations information at the [UNL Urban Environment blog](#) or [Facebook page](#).

**Submissions for presentation proposals will be due no later than January 16<sup>th</sup>, 2012.**



**Workshop Keynote speaker, Registration, and workshop sponsorship information will be announced soon!**

**March 28-30, 2012**

**2012 Nebraska Annual Planning Conference**

Mid-Town Holiday Inn Grand Island, NE

Sponsored by Nebraska Planning & Zoning Assoc./NE Chapter of the American Planning Assoc.

This NPZA training event is keyed to providing local planning officials from commissioners to elected officials to appointed officials to citizens, which are rookies or veterans committed to the continuous development of sound planning principles for their counties and municipalities. It also offers many choices for the professional planners, which assist the volunteer planners, in expanding their knowledge of planning disciplines through NE APA.

The 1<sup>st</sup> day offers a choice from 5 institute topics: planning commission fundamentals, legal issues, eco-friendly industrial parks, floodplain and stormwater management, and transportation alternatives. Planners and lawyers experienced in practical application in Nebraska and National arenas from Nebraska and the national American Planning Association.

The 2<sup>nd</sup> and 3<sup>rd</sup> days offer 5 track choices with sessions: planning basics, zoning administration, environmental, GIS mapping, housing/community development, flood management/recovery, tax increment financing, downtown redevelopment, ethics, boards of adjustment, open meeting act, and conflict of interest...plus more.

Special mobile workshop...Sandhill Cranes---limited registration.

**April 26, 2012**

**Omaha location TBD**

**Pervious Concrete Seminar**

Sponsored by Nebraska Concrete & Aggregate Association

**FEMA Releases New Levee Mapping Approach**

FEMA has released its proposed new levee mapping approach for mapping areas behind levees that are not accredited. This was in response to concerns about the "without levee" mapping approach. A [fact sheet](#), the [Federal Register notice](#), and the [proposed approach](#) are all posted on the [ASFPM website](#) for your use.

The proposed approach is on public notice until January 30, 2012. If you are able to make comments and submit them, please copy ASFPM and send your comments to [Kevin@floods.org](mailto:Kevin@floods.org) as well.



## Renew/Submit Your Annual NeFSMA Membership

The membership application for 2012 is available on our updated website. It will also be sent via email to 2011 members. <http://nefsma.com/membership.php>.

## Become a 2012 NeFSMA Outreach Sponsor

We previously notified the NeFSMA community about our revised approach to Outreach Sponsorships for 2012. Please consider taking advantage of this fresh opportunity. We asked that the \$500 sponsorships be returned to NeFSMA by December 31, 2011. This will allow you to take advantage of the full year of Sponsorship benefits such as:

1. Your logo with hyperlink to your website from NeFSMA website at <http://nefsma.com/about/sponsors.php>
2. Your logo provided on all workshop programs (four annually)
3. Your logo included on all newsletters (four annually)
4. One self-provided article or promotion (relevant to floodplain and stormwater management) posted to our blog at <http://nefsma.com/blog/>

We will still accept Sponsorships for our important outreach to members after the first of the year, but your best value is to get it in as soon as possible. Please notify Lori Laster if you need the form for your Outreach Sponsorship and please don't hesitate to email or call if you have any questions.

## 2011 NeFSMA BOARD MEMBERS

### Officers

**Chair:** Jesse Poore, CFM [jesse.poore@FHUENG.COM](mailto:jesse.poore@FHUENG.COM) **Vice Chair:** Nate Hartman [NHartman@lincoln.ne.gov](mailto:NHartman@lincoln.ne.gov)

**Second Vice Chair:** Rock Krzycki [rkrzycki@lincoln.ne.gov](mailto:rkrzycki@lincoln.ne.gov)

**Secretary:** Mike McIntosh, P.E., CFM [Mike.McIntosh@LRA-INC.com](mailto:Mike.McIntosh@LRA-INC.com) **Treasurer:** Lori Laster, CFM [llaster@papionrd.org](mailto:llaster@papionrd.org)

### Board Members

- Shawn Smith, CFM [ssmith@valley.omhcoxmail.com](mailto:ssmith@valley.omhcoxmail.com) • Bill Jones, CFM [bill.jones@nebraska.gov](mailto:bill.jones@nebraska.gov)
- John Callen, P.E. CFM [jcallen@jeo.com](mailto:jcallen@jeo.com) • Emily Holtzclaw P.E. CFM [Emily.holtzclaw@CH2M.com](mailto:Emily.holtzclaw@CH2M.com)
  - Bob Carnazzo, P.E. CFM [bob.carnazzo@nebraska.gov](mailto:bob.carnazzo@nebraska.gov) • Bobbi Holm [bholm2@unl.edu](mailto:bholm2@unl.edu)
- Nina Cudahy [nina.cudahy@ci.omaha.ne.us](mailto:nina.cudahy@ci.omaha.ne.us) • Jamie Reinke, P.E., CFM [jreinke@oaconsulting.com](mailto:jreinke@oaconsulting.com)
  - Rocky Keehn, P.E. CFM [rkeehn@sehinc.com](mailto:rkeehn@sehinc.com)

Visit NeFSMA on the web at: <http://www.nefsma.com>