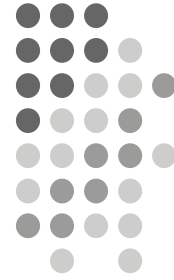


MfSMA

Missouri floodplain & Stormwater Managers Assoc.



From the President's Pen...

Can someone please slow the clock down?

Time keeps marching by which means we're getting closer and closer to the 12th Annual Conference of MfSMA. Scheduled for May 9-11 at the Resort at Port Arrowhead in Lake Ozark, Missouri, the tentative agenda looks to be both informative and diverse enough to offer our members an opportunity to network with stormwater and floodplain professionals and experts from across the country. The Annual Conference Committee has been working non-stop (with a great deal of assistance from Pam, Dale, Roger and Jennifer!) to put together a great program, including sessions on such things as:

- Mandatory Purchase of Flood Insurance
- Floodplain Mapping in Missouri
- Missouri's new Floodplain Website
- A repeat session of Case Studies: Real life situation addressed by the Regulators
- Hydrology and Hydraulics for the Floodplain Manager
- NFIP 101
- *And more!*

The conference will begin Wednesday afternoon for those interested in becoming CFM's with a review session hosted by SEMA. Roger does a great job with this and it is extremely beneficial if you intend to take that step toward certification. On Wednesday evening, we will have an early bird registration and a dessert social on the restaurant deck (hope it's not quite as cool as last

year, but we'll just move inside if the weather doesn't cooperate). Thursday will kick off the main program with the CFM examination for some and a session on Low Impact Design being presented by Perry Eckhardt and Mark Gruber of the Missouri Department of Conservation. You don't want to miss this one – these guys did a great job last year and we're expecting a repeat performance again this year!

The Thursday evening activities will be similar to last year with the ever-popular boat rides with dinner on the lake! Always a lot of fun and a great way to extend those networking opportunities. So clear those calendars, make your reservations, and get ready for another great conference!

—Nick Heatherly



2007 Association of State Floodplain Managers (ASFPM) Conference **Norfolk, Virginia, June 3 - 8**

The ASFPM annual conference is recognized as the most important floodplain conference in the United States year after year. With more than 100 speakers and nearly 1,000 participants, this is the conference all community, state, and federal floodplain managers plan to attend; because of that, many of the most important consulting firms and product vendors associated with floodplain management also attend.

In recent years, the attendance has had about an equal number of private, local, state and federal participants from all over the United States and several foreign countries.

Volume 2, Issue 18

Winter 2007

Special points of interest:

- MO CFMs
- 2007 Conference Dates Announced
- Membership Application

Inside this issue:

LOMC Workshops	2
'07 Membership Application	3
CFM Corner	4
CFM Exam Schedule	5
Perry Lake Concerns	6

LETTER OF MAP CHANGE (LOMC) WORKSHOPS

This workshop is designed to provide participants with an understanding of the Federal Emergency Management Agency's (FEMA's) Letter of Map Change process regarding how to submit a comprehensive application package to FEMA for review. This training will also provide the participant with a background of the National Flood Insurance Program (NFIP), including basic definitions, common acronyms, and those regulations governing the map amendment and map revision process.

Upon completion of this training, participants will be familiar with:

- The NFIP regulations that pertain to LOMC requests
- FEMA's processing of LOMC requests
- Managing floodplain development more effectively
- Where to find additional information about the Letter of Map Change (LOMC) process

This workshop is intended for those with engineering, surveying, or building science knowledge.

L. Scott Samuels, P.E., CFM, was the Floodplain Management Engineer for the Floodplain and Mitigation Section of the Missouri State Emergency Management Agency (SEMA) for over 6 years. He was responsible for aiding local officials, consulting engineers, and other interested parties to comply with the rules and regulations of the NFIP. Daily activities included explaining the different LOMC processes, reviewing technical data submitted to communities for compliance, and determining Base Flood Elevations (BFE's) for participating communities. Prior to joining SEMA in 1998, Mr. Samuels has worked as a project engineer for the City of Portland, Maine and Columbia, Missouri and he has also been a consultant for privately owned surveying/engineering firms in both Portland and Columbus.

Since resigning from SEMA, Mr. Samuels opened Central Missouri Engineering Services, LLC (CMES), which specializes in offering NFIP consulting services to local governments, lending institutions, private citizens and engineering firms. He is still very active preparing and submitting letter of map changes to FEMA and has created and presents several NFIP workshops in the region each year.

Mr. Samuels earned a Bachelor of Science Degree in Civil Engineering from Colorado State University at Fort Collins, in 1988. Mr. Samuels is a Registered Professional Engineer in the States of Maine, Missouri, Ohio, and West Virginia. He is a member of the American Society of Civil Engineers (ASCE), the Association of State Floodplain Managers (ASFPM), and the Missouri Floodplain and Storm water Managers Association (MFSMA). Mr. Samuels is currently a Certified Floodplain Manager (CFM).

The LOMC workshops will be offered at three locations in Missouri: The first workshop will be on March 27th in Kansas City at the Anita B. Gorman Conservation Discovery Center. The second workshop will be held on April 10th in Columbia at the Missouri Department of Conservation Resource Science Center Auditorium. The last workshop will be held April 24th in Cape Girardeau at the Osage Community Center.

The cost of the LOMC Workshop for MFSMA Members is \$50.00. Non-Member fee is \$75.00. To register for this class, contact Pam Huhmann at (573)-526-9115 or e-mail pam.huhmann@sema.dps.mo.gov

MfSMA

MO Floodplain & Stormwater Manager Association
P.O. Box 775
Jefferson City, Missouri 65102

*Annual Membership
January 1, 2007 thru December 31, 2007*

*Send Completed Application & Payment
to this Address*

2007 MEMBERSHIP APPLICATION

Please Print or Type

Name _____

Community/Business Represented _____

What County is Community/Business Represented Located In? _____

What MFSMA Area Director Region Are You Located In? (Circle Number Below)

1 2 3 4 5 6 7 8 9

Title/Position _____

Are You the Designated Floodplain Administrator for Your Community? (Circle One) Yes No

Complete Mailing Street Address _____

City _____ **State** _____ **ZIP** _____

Work Telephone Number _____ **Work Fax Number** _____

Email Address To Receive Newsletter _____

(Circle One)	Renewal of Membership	New Membership
(Circle One)	\$25.00 for Individual Membership	\$100.00 for Corporate Membership

(Corporate membership open to any political entity, corporation or other association engaged in floodplain, stormwater or emergency management, or related field. Persons seeking membership on behalf of such organizations shall provide the Association a list of no more than five (5) names of persons who will be their representatives in the Association. Such representatives may be changed from time to time without penalty.)

Signature _____ **Date** _____

THIS BOX FOR OFFICE USE ONLY

Date of Check _____ Check Number _____ Amount of Check _____

CFM® Corner

Keeping Up the Pace with CFMs

Missouri currently has 80 Certified Floodplain Managers who have achieved a nationally recognized level of professional development. Certification is an individual measure of knowledge and proficiency in floodplain management and is obtained through a national testing program developed by the Association of State Floodplain Managers. (See *upcoming Missouri test dates in this issue.*) Once certification has been obtained, it can be maintained by obtaining 16 Continuing Education Credits during each two-year certification period. You worked hard to earn that certification! Don't let it lapse. Be sure that you maintain your certification by attending qualifying educational events. MFSMA partners with SEMA and NFIP to co-sponsor several such workshops

and training events throughout the state each year, at minimal cost to the participants. Event schedules can be obtained from the MFSMA newsletter or from the SEMA web page www.sema.dps.mo.gov/semapage.htm.

MISSOURI CFMs

Anderson, Philip, **Owensville**
Atchley, Robert, **Springfield**
Avery, Dennis, **Poplar Bluff**
Banks, Brandon, **Kansas City**
Barnes, Kevin, **Nixa**
Bates, Shanna, **Independence**
Bennish, Lesley, **Rolla**
Birchler, Mark, **Manchester**
Boggs, John, **Robertsville**
Bonner, Andrew, **Lees Summit**
Brizendine, Jeff, **Kansas City**
Burnham, Joey, **Hannibal**
Campbell, Mark, **La Grange**
Connell, Roger, **Jefferson City**
Corwin, Kevin, **O'Fallon**
Cristy, Clayton, **Joplin**
Duke, Stephen, **Dexter**

Duong, Van, **Overland**
Eakins, Guy, **Springfield**
Echrich, James, **Fenton**
Fandrey, Alan, **Jefferson City**
Feldmann, Mark, **Marthasville**
Felton, Jason, **Kansas City**
Finger, Jeanne, **Kansas City**
Francis, Patsy, **Festus**
Franke, Pamela, **Kansas City**
Frankenberg, Raymond, **Washington**
Gantner, Joseph, **Glencoe**
Garner, Rick, **Mt. Vernon**
Geisel, Michael, **St. Peters**
Genasci, Authur, **Josephville**
Gipson, David, **St. Charles**
Graves, Russell, **St. Louis**
Gray, William, **Festus**
Green, Scott, **Independence**
Greenlee, Jeannie, **O'Fallon**
Gress, Fred, **Willard**
Harris, Pamela, **Dora**
Heatherly, Nicholas, **Springfield**

(Continued on page 6)



ANNOUNCING THE 2007 SCHEDULE FOR CERTIFIED FLOODPLAIN MANAGERS (CFM) EXAMINATION

THE CFM EXAMINATION WILL BE OFFERED FOUR (4) TIMES DURING THE COMING YEAR

Each examination will be conducted at a different location throughout the State of Missouri. Each exam will begin at 9:00 a.m. and end at noon: a Pre-Exam Workshop will be offered the day before at the same location from 1:00 p.m. to 5:00 p.m.

FOUR (4) DATES & LOCATIONS TO CONSIDER

MARCH 16TH EXAM – MARCH 15TH PRE-EXAM WORKSHOP - ST. LOUIS
MAY 10TH EXAM – MAY 9TH PRE-EXAM WORKSHOP - LAKE OZARKS
JUNE 15TH EXAM – JUNE 14TH PRE-EXAM WORKSHOP - RIVERSIDE
OCTOBER 12TH EXAM – OCTOBER 11TH PRE-EXAM WORKSHOP - SEMA

MARK YOUR CALENDAR NOW!
CALL PAMELA HUHMANN FOR
COMPLETE INFORMATION ON HOW TO SIGN UP
TO TAKE THE CFM EXAM AT (573) 526-9115





By Ruth Wallace

Integrated Management Practices (IMPs) – strategies, technologies and practices for the best in local storm water management.

IMP PULSE note #1 – EPA’s Webcasts for Municipal Storm Water Managers

In August 2006, the U.S. Environmental Protection Agency began a series of webcasts for municipal storm water managers. The free series continues with upcoming interactive sessions on municipal storm water compliance, social marketing (for outreach and education programs), illicit discharge 201 and post-construction 201. Dates and details can be viewed at <http://www.epa.gov/npdes/training>. Archived webcasts can also be viewed at the same site, including *Financing Storm Water Programs* and *Pollution Prevention in Municipal Operations*.

IMP PULSE note #2 – Rain Gardens

Rain gardens are becoming popular as one of the many IMPs for post-construction storm water management. One might think of them as small, dry detention ponds gone fancy or bio-retention cells gone fancier. A rain garden is a recessed feature incorporated into the landscape with the use of native or adapted deep-rooted plants. After all, plants have served as a landscape function for many years by slowing down storm water and soaking up pollutants before releasing the water to nearby streams or lakes. A well thought-out rain garden serves to intercept and treat small storm runoff, conserve ground moisture, and drain within a 4 to 24 hour period. It can be tightly engineered with gravel bases and overflow drains, or, depending on the soil and slope, can serve the function simply as a planted depression. It can be used as a single item to catch rooftop runoff in a downspout disconnection effort, or it can be one of many in a storm water treatment train.

As a retrofit, one can consider using a rain garden along with decorative rain barrels to address a local drainage problem. The use of lawn ornaments, natural rocks, nearby benches and other hardscapes can spice it up. While professionals are recommending them as new fixes to old storm water problems in the neighborhood, nurseries are touting rain gardens as interesting landscape features. They are also being used in new low-impact development projects – plugged into the beginning of the design – rather than at the end as done in conventional designs. A plan that includes rain gardens dispersed in concert with the natural roll of the landscape can minimize the amount of cutting, filling and grading. Calculations for rain gardens, typically designed to manage small storm events, can be credited toward designs required for large storm events. Some low impact developments with rain gardens don’t even need a larger detention basin. Rain gardens can be most effective when dispersed throughout a design in conjunction with other IMPs such as swales, infiltration trenches, storm water wetlands, vegetative filter strips, urban stream buffers, porous paver systems, sand filters or others.

The term “rain garden” itself may be part of the stylistic appeal, but the concept has been around for some time. Wetlands perform this very function in addition to providing valuable habitat for birds and butterflies. Search the web today and several items pop up– including design guidance that tells you how deep a rain garden needs to be, where to locate it, what types of plants to use and just how sophisticated it should be to serve the function of interest. So popular is the use of rain gardens in post construction runoff management that numerous Missouri communities are including rain garden guidelines in their storm water management manuals—such as Columbia, Greene County and the Metropolitan St. Louis Sewer District. Likewise, Kansas City has embraced the concept through a *10,000 Rain Garden Initiative*, and the American Public Works Association has worked closely with Mid America Regional Council to include rain gardens in their menu of best management practices. Clearly, there has been a storm of interest in the integrated management practice of rain gardens.

(Continued from page 4)

Helsper, Steve, **Aurora**
 Hess, Brian, **Liberty**
 Holley, James, **Blue Springs**
 Holmes, John, **Columbia**
 Hubert, Bonnie, **Kirkwood**
 Jones, Wilson, **Buckner**
 Kehoe, Luke, **Dardenne Prairie**
 Kemper, Errin, **Springfield**
 King, Daniel, **Sullivan**
 Koch, Matthew, **Lees Summit**
 Lacy, Larry, **Marionville**
 Linneman, Chris, **St. Peters**
 Luebbert, Christina, **Jefferson City**
 Marr, Eloise, **St. Charles**
 McQuay, Brenda, **Jackson**
 Meier, Donald, **Kansas City**
 Meintsma, Seward, **Springfield**

Miller, Lori, **Kansas City**
 Morgan, Laurel, **Maplewood**
 Myers, Dave, **Pacific**
 Noland, Randy, **St. Charles**
 Paskiewicz, Jeffrey, **St. Peters**
 Patterson, Charles, **Rolla**
 Penney, William, **O'Fallon**
 Proffer, Jerril, **Aurora**
 Rensing, David, **Winnebago**
 Rovak, Gene, **St. Louis**
 Samuels, L. Scott, **Ashland**
 Sanders, Janet, **Jackson**
 Sawyer-Sagehorn, Leslie, **Kirkwood**
 Schmutzler, Dale, **Jefferson City**
 Schneider, Jason, **Jefferson City**
 Shotts, Robert, **Lebanon**
 Smith, Timothy, **Willard**
 Thomas, Joseph, **Kansas City**
 Thomure, Dale, **St. Geneveive**

Wagner, Todd, **Springfield**
 Warren, Wm. Christian, **Smithville**
 Welch, Warren, **Kansas City**
 Wilson, Darrell, **Harrisonville**
 Wilson, Joseph, **Rolla**

**CURRENT STATE OF MISSOURI
 CERTIFIED FLOODPLAIN MANAGERS
 AS OF NOVEMBER 13, 2006
 TOTAL OF 80**



12th ANNUAL FLOODPLAIN & STORMWATER MANAGERS CONFERENCE IS UNDER WAY!

Planning for the 12th Annual Floodplain & Stormwater Managers Conference is under way. The conference will be held at the Resort at Port Arrowhead in Lake Ozark, Missouri. This is the same location where the conference was held last year. This three-day conference promises to be best the Association has offered. The scheduled dates are May 9, 10 and 11, 2007. The conference planning committee met recently to lay out an impressive agenda. The preliminary plans include a golf tournament. The Certified Floodplain Managers (CFM) test will be offered on Thursday morning with a CFM test review on Wednesday, May 9th. A pre-conference social is planned. However, the final details of the social have not been worked out. A Thursday evening social and outing is also planned, but, again, the details and final arrangements are currently being worked on.

If you have any suggestions or ideas for the conference, please contact Nick Heatherly, MFSMA President. Nick can be reached by calling (417) 864-1059 or email nheatherly@ci.springfield.mo.us

Mark your calendars and make plans now to attend!

Perry Lake Concerns Addressed by Officials from Two Corps Districts

U.S. Army Corps of Engineers officials offered information about navigational releases at Perry Lake to nearly 100 people in a meeting held by the Perry Yacht Club in Kansas City, Kansas, on Aug. 28. Representatives of the Kansas governor's office, offices of state representatives, and United States Senators Pat Roberts and Sam Brownback attended the meeting.

Yacht club officials said they called the meeting out of concern for the economic impact of lower waters at the lake caused by navigational releases from the lake in support of navigational flows on the Missouri River. Representatives of the yacht club said the club's membership dropped by nearly 25 percent during a period of navigational releases before 2001. They said the club felt the Corps had agreed to a reduced release schedule after a meeting in 2001, but the Corps had returned to the previous schedule this year.

Allen Tool, chief hydrologic engineering for the Kansas City District, gave a detailed presentation on Perry Lake operations to those attending the meeting. In the presentation, he said the change to operations dis-

(Continued on page 7)

(Continued from page 6)

cussed by yacht club representatives was a one-year deviation of operations, which had been extended for an additional year. Tool said such temporary changes can be used no more than two consecutive years, and no more than three in any five years under current regulations. "This was never supposed to be a permanent modification to the lake's operations," Tool said.

He said in 2004, the one-year deviance allowed the use of 5 percent of the flood control storage in the lake, or roughly 2 feet above the lake's multipurpose pool. The lake's multipurpose pool elevation is 819.5 feet above sea level. During that year's navigational season, the lake released only about .5 feet, using none of its multipurpose pool.

In 2005, the deviance meant that releases from the multipurpose pool at Perry Lake amounted to only .3 feet.

"Ultimately, we have to operate the Perry reservoir to support its authorized purposes. We have to achieve that by following the lake operations manuals and approved deviations from those manuals, and we'll continue to coordinate with the Kansas Water Office on Perry releases," Tool said.

In a question and answers session following Tool's comments, Larry Murphy of the Omaha District's Reservoir Control Center explained the need for releases from Kansas Lakes.

"This helps us preserve water upstream on the main stem of the river," Murphy said.

In response to question as to why releases came from Kansas lakes rather than lakes in Missouri or Iowa, Murphy said the location of the flow is an issue.

Murphy said flows on the Missouri River's main stem are managed for navigation but also support other needs up and down the river, including supporting habitat for endangered species such as the least tern and piping plover (both species of birds who nest in river habitats).

"We have to achieve a flow of 35,000 cubic feet per second at Kansas City," he said. "If we were to release from Rathbun Lake (in Iowa), the water released would enter the Missouri river significantly downstream of Kansas City and not contribute to meeting the Kansas City flow target."

Following the meeting, some of those attending expressed varying opinions about what was discussed.

"I think it was very productive," said Barbara Cameron, a former commodore of the Perry Yacht Club. "We just wanted to be educated and for someone to realize the economic impact that these releases have on us."

Yacht Club member Gary Templeton, who introduced several of the meeting's speakers, said the meeting left him with a key question he hopes can be addressed.

"What is magic about the number 891.5," he said of the lake's elevation. "It doesn't fly with this old Kansas boy that you need that much flood storage area in Kansas in August." He said he hopes there is a way to raise the multipurpose pool elevation so it supports recreational activities at the lake.

"We appreciated the group that came from the Corps' Kansas City and Omaha offices," said Tony Andresen, commodore of the yacht club. "It's an important issue. We have a lot of interest in finding a permanent solution for our water needs."

MfSMA

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The **MfSMA** newsletter is published on a quarterly basis and serves as an informational forum for professional Missouri Floodplain and Stormwater Managers to share their knowledge and experiences with others throughout the state.

For information about subscriptions, you may write MfSMA, c/o Editor Ronda Gulley, 940 N. Boonville, Room 305, Springfield, MO 65802 or call Janet Sanders, Past President of MfSMA, at (573) 243-2300.