



# Kentuckiana Flyer

NEWSLETTER OF THE KENTUCKIANA POST, SAME

<http://posts.same.org/kentuckiana>

## SUSTAINING MEMBER FIRMS

3001, Inc.  
AMEC Earth &  
Environmental, Inc.  
ARCADIS  
Armag Corporation  
Barge Waggoner Sumner  
Cannon, Inc.  
Bay West, Inc.  
Baysinger Design Group, Inc.  
Black & Veatch Special  
Projects Corporation  
Burgess & Niple, Inc.  
Cape Environmental Mgmt. Ltd.  
Carter & Burgess, Inc.  
CH2M Hill, Inc.  
Chase Environmental Group, Inc.  
Cornerstone Engineering, Inc.  
DataChem Laboratories, Inc.  
EA Engineering Science &  
Technology, Inc.  
Earth Tech, Inc.  
EMH&T Engineers  
EnSafe, Inc.  
Environmental Chemical Corp.  
EQ/Environmental Quality  
Management, Inc.  
Erdman Anthony & Associates  
GAI Consultants Inc.  
Gannett Fleming, Inc.  
GRW Engineers, Inc.  
H.C. Nutting Company  
HNTB Corporation  
Horner & Shifrin, Inc.  
HydroGeoLogic, Inc.  
JACOBS  
KBR  
Kowalekno Consulting  
Group, Inc.  
KZF/BWSC, A Joint Venture  
Lawhon & Associates, Inc.  
LJB, Inc.

Small Businesses noted in Red

## NEWS FROM THE POST PRESIDENT . . . ...”Creating” Engineers...

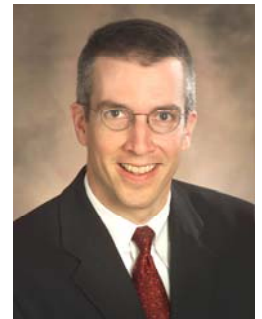
If you receive any publications from engineering organizations, you have no doubt seen at least one headline that indicates a current or imminent shortage of engineers in the United States. Some articles describe a crisis near epidemic proportions, while others are a little less “Chicken Little” in their perspective. Regardless of the degree of seriousness of the matter, it is still just that: serious. And in my humble opinion, here’s the reason why:

The United States was discovered, founded, developed and prospered through the hard work and determination of some very smart individuals. While most of them historically are not recognized as engineers by training or trade, most had the ingenuity and know-how to create solutions to the challenges at hand. They knew how to solve problems. They knew how to size up a situation, glean the facts, develop a plan and execute the solution. Much like you do everyday.

And if it didn’t work the first time, our country’s history is full of stubborn characters that didn’t accept failure. I wonder how many times Christopher Columbus heard “Are we there yet? This is a dumb idea. Can we turn around?” And how many of us, as Samuel Morse’s assistant, would have said after 10 years of developing the telegraph, “Look, boss, I don’t think this is gonna work.” (He perfected the device in the 12<sup>th</sup> year). Or did you know that the number in WD-40 represents how many times it took the creators to get their water displacement formula just right?

The lifeblood that runs through the successful history of our country is the ingenuity, creativity and determination of our inventors, scientist and engineers. People who know how to dream something better, stronger, faster, safer can then transform those ideas into tangible solutions. If the United States is to continue as a global leader, we must continue to develop new engineers.

So, you’re feeling pretty good about that fact that you’re contributing to our country’s success by being a part of the engineering community? Thank you! Each of you plays a role in making our time on earth a little better. Continued



D. Clay Kelly, PE,  
Post President,  
KP, SAME

**SUSTAINING MEMBER FIRMS**

Louisville & Jefferson County  
Metropolitan Sewer District  
Lockett & Farley  
Architects, Engineers &  
Construction Managers  
Lusk Mechanical  
Contractors, Inc.  
MACTEC Engineering  
and Consulting  
Mascaro Construction Co., L.P.  
Michael Baker Corporation/  
Michael Baker Jr. Inc.  
Mindel Scott & Associates, Inc.  
MKM Engineers, Inc.  
MWH Americas, Inc  
Northview Enterprises  
O'Brien & Gere Limited  
Palmer Engineering Co.  
Parsons Corporation  
Parsons Brinckerhoff  
PEER Consultants, P.C.  
Plexus Scientific Corp.  
Prime Engineering &  
Architecture, Inc.  
Professional Environmental  
Engineers, Inc.  
Qk4 Architecture Engineering  
Construction  
R.W. Armstrong &  
Associates, Inc.  
Science Applications  
International Corporation  
Shaw Group, Inc.  
Shook Construction  
Specialty Earth Sciences, LLC  
Stanley Consultants, Inc.  
Stantec Consulting Services, Inc.  
Strand Associates, Inc.  
Terraine, Inc.  
Tetra Tech, Inc.  
The Mason & Hanger  
Group, Inc.  
Third Rock Consultants, LLC  
TJC Engineering, Inc.  
URS Corporation  
Vaughn & Melton Consulting  
Engineers  
WESTON Solutions, Inc.  
Wight & Company  
Woolpert, Inc.

Small Businesses noted in Red

**NEWS FROM THE PRESIDENT . . .**

Continued

But I ask you:

- Are you creating your “down line”, so that when you are promoted or when you exit the engineering workforce, the void is filled?
- When was the last time you encouraged a young person to consider engineering as a career?
- In what way have you promoted the engineering profession as a job that makes a difference in the lives of others?

Until the next issue of the Kentuckiana Flyer, please take a step back and consider your role in the success of our nation. Large or small, you make a difference! Also think about how you can contribute to our country’s future by sharing the excitement of your profession with a young person. You just might “create” an engineer!

D. Clay Kelly, PE  
Post President, KP-SAME

**SUMMARY OF MARCH GENERAL MEETING . . .**

The March meeting of the Kentuckiana Post of SAME was held Tuesday, 18 March 2008 in the Cafeteria Meeting Room at the Mazzoli Federal Building. Eighteen (18) members and guests were in attendance. Clay Kelly, President of the Kentuckiana Chapter, opened the meeting and welcomed everyone. First Vice President Marilyn Lewis then led the group in the prayer and the Pledge of Allegiance.

President Kelly made several announcements. He said that scholarship applications are currently being graded; and the May regular membership meeting will include the presentation of scholarships to the recipients. Additionally, in May, attendees will hear from University of Louisville students, supported by the Post, who went to Hattiesburg, Mississippi. During their spring break, they worked with Habitat for Humanity in support of the Hurricane Katrina efforts.

President Kelly shared excerpts from a presentation entitled “*Strategic Perspectives*” by Major General Del Eulberg, national president of SAME. He said that throughout the year, he would share with the Post nuggets of information from this presentation. For the March meeting, President Kelly provided an historical perspective of the SAME organization. He said the roots of the association go back to 1909, when the Army Corps of Engineers first published the *Professional Memoirs*, a service journal. Following World War I, which saw civilian engineers as a part of active duty forces, a group of officers wanted to maintain the spirit of cooperation between the military and private sector engineers. This resulted in the founding of SAME in 1920, initially to publish *The Military Engineer* magazine. Since then, membership has grown to over 20,000.

Continued

## SUMMARY OF MARCH GENERAL MEETING . . . Continued



President Kelly discussed Century House, SAME's Headquarters in Alexandria, Virginia. He also reviewed the organization's mission, "To promote and facilitate engineering support for national security by developing and enhancing relationships and competencies among uniformed services, public and private sector engineers, and related professionals." Additionally, he discussed the association's goals, which are: National Security and Emergency Response, Education and Training, Relationships, Relevance, and Recognition. President Kelly encouraged the attendees to get involved as a leader in the organization.

President Kelly mentioned that the SAME Great Lakes and Ohio Valley Region is working on developing a unique coin for the regional organization. He said this is following the lead of the national organization, which already has a coin.

Program Co-Chair Ray Frye introduced the guest speaker, Nick Schmitt, PE, Senior Principal Engineer with MACTEC, who spoke on *Remediation of an Unnatural Disaster: Catastrophic Failure of Taum Sauk Upper Reservoir Dam and the Ensuing Rebuilding of Johnson Shut-ins State Park*.

Mr. Schmitt discussed the failure of the dam on 13 December 2005, when one side of the upper reservoir failed and more than a billion gallons of water rushed down the mountain, heading toward the state park. The deluge totally wiped out two miles of stream between the upper and lower reservoirs and destroyed the park. Ameren UE, the power company which maintained the dam, accepted responsibility and embarked on an aggressive program to restore the stream and the park. The Johnson Shut-Ins State Park was considered the "jewel" of the Missouri State Park System, and was the most highly visited park in the state. The dam that failed was 700' wide and 84' high with an additional 10' high concrete wall atop the dam, for a total of 94'. The failure was equivalent, hydrologically, to a 10,000 year flood event. In addition to restoring the park, the lower reservoir had to be restored because of the large amount of sediments that were deposited during the disaster. Amazingly, there was no loss of life.

The next General Meeting for the Kentuckiana Post is scheduled for Tuesday, 15 April, with a presentation on the Ohio River Bridges. The May meeting will be on Tuesday, 20 May at the University of Louisville, with presentation of scholarships and a report from the U of L Student Chapter on their work during Spring Break.

Janet S. Skees, PE  
Post Secretary

### Contents

News from The Post  
President . . .

Summary of March General  
Meeting . . .

SAME Engineering and  
Construction Camps . . .

Focus On . . .

News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award

News from the Scholarship  
Committee . . .

News from the Student  
Chapter . . .

May Meeting . . .

Kentuckiana Post Board

2008 Post Schedule

## SOCIETY OF AMERICAN MILITARY ENGINEERS ENGINEERING AND CONSTRUCTION CAMPS



It is time for Kentuckiana Post, SAME to identify students for the Engineering and Construction Camps. For the past several years, we have sponsored one or two students to attend the SAME/U.S. Air Force Academy Camp or the SAME/Seabees Camp. The feedback we have received from the students who have attended has been overwhelmingly positive.

At SAME Engineering and Construction Camps, high school students from across the country learn engineering solutions and skills from professional engineers, while getting a taste of what it means to work for and with the military services. For more information, please refer to the SAME website:

<http://posts.same.org/camps/2008/>

The deadlines are fast approaching. Our nominee for the US Air Force Academy Camp must be submitted by Tuesday, 15 April and the nominee for the Seabees Camp by Thursday, 15 May. The dates and locations of the camps are:

SAME/U.S. Air Force Academy Camp  
June 27-July 3, 2008  
U.S. Air Force Academy  
Colorado Springs, Colorado

SAME/Seabees Camp  
July 20-26, 2008  
Naval Base Ventura County  
Port Hueneme, California

If you know of any student who would be interested in this experience please encourage them to get in touch with the KP, SAME.

Marilyn W. Lewis, PE  
1st Vice President  
KP, SAME

### Contents

News from The Post  
President . . .

Summary of March General  
Meeting . . .

SAME Engineering and  
Construction Camps . . .

Focus On . . .

News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award

News from the Scholarship  
Committee . . .

News from the Student  
Chapter . . .

May Meeting . . .

Kentuckiana Post Board  
2008 Post Schedule

## FOCUS ON . . . OUR SUSTAINING MEMBERS

Numerous new Sustaining Member Firms have joined with Kentuckiana Post over the years. Small businesses or large corporate firms; we would like to learn more about you. This is your opportunity to “*Toot your own horn*” in future Flyers and let your associates know what you can do.

If you would like to submit a corporate profile for a “*Focus On ...*” feature or your firm would like to share news of recent awards, major projects you have completed or corporate expansion, please forward your ideas or comments for inclusion to the newsletter to Newsletter Chairperson, Mr. John Storm, [john.storm@stantec.com](mailto:john.storm@stantec.com) or [Richard.petty@stantec.com](mailto:Richard.petty@stantec.com).

## NEWS OF INTEREST . . .



Kentuckiana Post Young Member Erin Hall was recently featured in the Louisville Business First news journal. Erin received her civil engineering degree and her MBA from the University of Kentucky and is now managing the business development activities for Messer Construction, a Kentuckiana Post Sustaining Member. She serves as the KP Scholarship Committee Co-Chair and was eager to get involved after winning the scholarship twice while attending UK. The article in Business First is an outstanding honor, and Erin's recognition reflects the quality of the individuals serving the Post. Congratulations, Erin!

### Building a career: Erin Hall's engineering background led to a business-development position at Messer Construction



Above: Kentuckiana Post Young Member, Erin Hall, Messer Construction Company

#### Erin Hall

Current Employment: Business-development manager, Messer Construction Company

Career History: Business-development manager, Messer Construction Co., Columbus, Ohio, January 2004 to January 2005; business-development manager, Messer Construction Co., Louisville, January 2005 to present

Education: Bachelor's degree in civil engineering, University of Kentucky, December 2002; MBA from University of Kentucky, December 2003

Hometown: Louisville

Residence: Jeffersontown

Marital status: Single

Age: 27

Volunteer activities: Secretary of board of directors, Young Professionals Association of Louisville (YPAL); volunteer with the Boys and Girls Clubs of Kentuckiana; serves on the board of directors of the National Association of Women in Construction and the Society for Marketing Professional Services  
Hobbies: Plays sand volleyball, Patriots football fan, enjoys golf and live music.

#### How did you become interested in engineering?

"I always enjoyed math. I enjoyed it, and it came naturally to me. I thought I was going to go to school to be a math teacher, because most of my memorable teachers throughout school were math teachers.

"But I got to UK on orientation day, and they told us if we wanted to go to a different orientation for a different subject than we had signed up for, that was fine to do. I saw the new engineering building, and I said, 'Hey, let's go to that building and check it out.'

"When I went there, there was an orientation for engineering students, and I saw there was a lot of math in the curriculum. And I thought this would work for me.

Continued

#### Contents

News from The Post  
President . . .

Summary of March General  
Meeting . . .

SAME Engineering and  
Construction Camps . . .

Focus On . . .

News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award

News from the Scholarship  
Committee . . .

News from the Student  
Chapter . . .

May Meeting . . .

Kentuckiana Post Board

2008 Post Schedule

## Building a career: Erin Hall

Continued



Above: Kentuckiana Post  
Young Member,  
Erin Hall, Messer  
Construction Company

### [Contents](#)

[News from The Post  
President . . .](#)

[Summary of March General  
Meeting . . .](#)

[SAME Engineering and  
Construction Camps . . .](#)

[Focus On . . .](#)

[News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award](#)

[News from the Scholarship  
Committee . . .](#)

[News from the Student  
Chapter . . .](#)

[May Meeting . . .](#)

[Kentuckiana Post Board](#)

[2008 Post Schedule](#)

"In one of my very first classes, a speaker made a comment that a civil engineer will have saved more lives than any doctor during their lifetime. I thought that was really interesting.

"If things are not built or designed correctly, people really are in danger. You are contributing to society -- to making people safe -- and I like contributing to society in that way."

### **Why do you think engineering was a good choice for you?**

"Almost everything that you see or do involves something that has to do with civil engineering -- our roads we drive on, our sewer systems, our buildings. There are a lot of options.

"With the background and educational knowledge, you could do whatever pleased you. In college, I co-oped with a company and did a lot of highway design and water-treatment plant design.

"I was glad to have the job through college, and I learned a lot. But then the opportunity with Messer came up, and I knew I had to take advantage of that."

### **What do you like about the construction industry?**

"You can see a tangible result at the end of a project. You can see what your hard work and effort is doing. I like the tangible results idea, and it's something that will be around a long time.

"To know you are working on a notable project that will be a landmark that will be around for a long time is a good feeling."

### **You left Kentucky for Columbus, Ohio, for your first job.**

#### **Was that a good move?**

"The only reason I did was because of Messer. That was where they had availability. ... I knew what kind of company they were, and I knew to work for them would be great.

"When the opportunity came up, I just had to take it. I moved away for a year and lived in Columbus. I do think it was good. I've always been fairly independent, and moving away didn't scare me."

#### **What do you like about Louisville?**

"It's a small big city. There is so much to do. There is a lot of opportunity to make a difference. That's one reason I wanted to get involved in YPAL (Young Professionals Association of Louisville).

"I could go to a large city like Chicago or New York and be one of a million young professionals trying to make a difference. In Louisville, the sky is the limit as far as what you're capable of doing.

With YPAL, "there is a lot of diversity, and it's growing. It's a fun time to be here. It's familiar and it's easier to be in the networking and business development role when your network is already established."

Continued

## Building a career: Erin Hall

Continued



### What's your dream job?

"I would love to be a professional golfer. I started to take up the sport, and I'm in the process of taking lessons and playing in a lot of outings. I think that would be the life. It's exercise and fun and some competition in there. You're outside on nice days."

### Do you have any mentors who have given you guidance?

"Yes. I've gotten to know Mary Moseley (president of the Al J. Schneider Companys). I knew her growing up. I was friends with her daughter.

"When I came back to Louisville, I was trying to connect with people in the business community, and I ran across her name. I think it's admirable what she's done with Galt House (Hotel & Suites) and the other Schneider businesses.

"I informally asked if she could serve as a mentor to me. ... She's someone I looked up to and someone I reached out to."

### Can you describe yourself in one word?

"The first word that popped into my head is genuine. What you see is what you get."

Robyn Davis Sekula, Business First Correspondent  
Business First of Louisville

## ECC Receives the Prestigious Dwight D. Eisenhower Award

In its first year of eligibility as a large business, ECC was awarded the prestigious Dwight D. Eisenhower Award for Excellence by the Small Business Administration (SBA) in the Service category.

The Eisenhower Award, named after the president under whom the SBA was founded, honors large Federal contractors that exemplify small business utilization. As a recipient of the award, ECC demonstrated a strong commitment to small businesses through contract utilization and effectiveness, mentoring and outreach events, internal corporate policies and management support, and charitable giving.

ECC's President and CEO, Manjiv S. Vohra, PE, commented on the award, "I am extremely proud of the ECC family—in particular, the program and project managers, contract administrators, and acquisition professionals—who consistently select, mentor and develop small businesses on our projects. Their dedication to small businesses honors ECC's history as an award-winning small business, and is our way of *paying it forward*."

ECC, founded in 1985, began as an entrepreneurial startup and participated in the SBA's 8(a) program. From its startup until last year, ECC was a small business under many NAICS codes. ECC's receipt of the Eisenhower award in the service category is particularly impressive, considering the firm was still considered a small business under many of the service-based NAICS codes for a portion of 2007.

Continued

### Contents

News from The Post  
President . . .

Summary of March General  
Meeting . . .

SAME Engineering and  
Construction Camps . . .

Focus On . . .

News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award

News from the Scholarship  
Committee . . .

News from the Student  
Chapter . . .

May Meeting . . .

Kentuckiana Post Board

2008 Post Schedule



## ECC Receives the Prestigious Dwight D. Eisenhower Award

Continued

Although ECC is a relatively new large business, this is not the first time the firm has been recognized for small business participation and utilization. ECC also received the 2007 Inaugural Prime Subcontracting Award for subcontracting excellence with Service-Disabled Veteran-Owned Small Businesses.

“We understand the importance of the government’s small business programs, and are extremely honored to have received the Eisenhower award. We will continue to strengthen our partnerships with local and small businesses around the globe,” says Mr. Vohra. The award will be presented to ECC in Washington D.C. on April 20, 2008 during the SBA’s National Small Business Week.

Established in 1985, ECC provides a complete range of services to support its clients’ missions, including environmental remediation, design-build construction, operations and maintenance, and munitions response. ECC serves several U.S. government agencies, including the Army, Air Force, Navy, Department of State, and Department of Energy. For more information on ECC and current subcontracting opportunities, please visit us on the web:

[www.ecc.net](http://www.ecc.net)

## NEWS FROM THE SCHOLARSHIP COMMITTEE . . .

The scholarship applications have been reviewed by the committee and approved by the Post Board on Tuesday, 17 April. The 2007 winners will be invited to the May’s annual Scholarship Awards Program on the University of Louisville Campus at the University Club.

Since 1997, the Kentuckiana Post has bestowed \$220,000 in grants and scholarships. This year up to five \$3,000 scholarships will be awarded to students pursuing a degree in engineering. Questions should be directed to Veronica Rife at 502-315-6785 or [veronica.l.rife@lrl02.usace.army.mil](mailto:veronica.l.rife@lrl02.usace.army.mil).

## NEWS FROM THE STUDENT CHAPTER . . .

The ASCE/SAME Student Chapter will hold their End of Year Cookout the weekend of the 25 April with Officer Elections for the 2008 - 2009 academic year. Classes for the spring semester are coming to an end, but the Chapter will continue to hold meetings and participate in events over the summer. We look forward to getting more involved with SAME this upcoming school year. The Student Chapter also has setup a new website, [www.freewebs.com/asce-uofl](http://www.freewebs.com/asce-uofl).

M. Brandon Shelley, ASCE/SAME Student Chapter

### Contents

News from The Post  
President . . .

Summary of March General  
Meeting . . .

SAME Engineering and  
Construction Camps . . .

Focus On . . .

News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award

News from the Scholarship  
Committee . . .

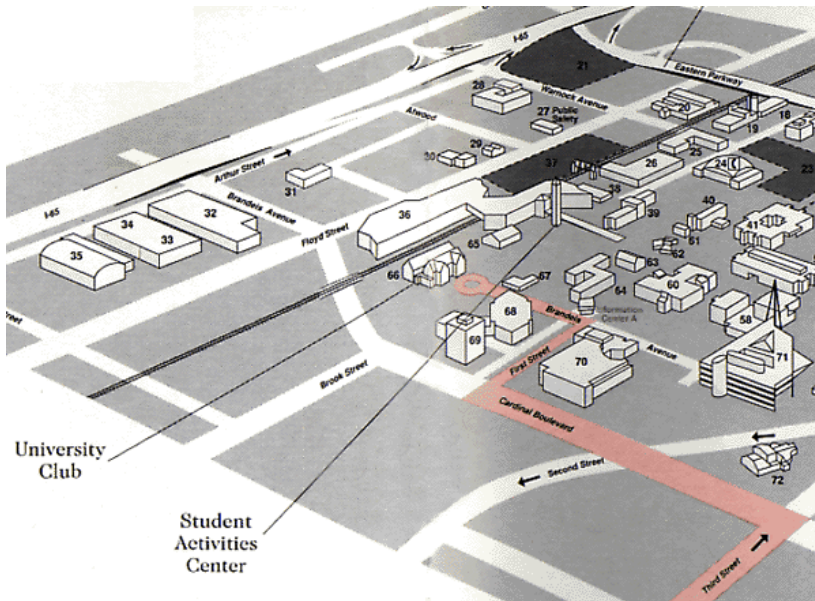
News from the Student  
Chapter . . .

May Meeting . . .

Kentuckiana Post Board

2008 Post Schedule

## MAY MEETING:



- When:** Tuesday, 20 May 2008
- Topic:** 2008 Scholarship Presentations
- Location:** University Club,  
University of Louisville
- Time:** 11:30 a.m. to 1:00 p.m.
- Cost:** \$17.00 per person
- RSVP:** **Must RSVP No Later Than Tuesday, 13 May 2008**  
Michelle deGuzman at  
502-315-6231 or by email:  
[Michelle.deGuzman@usace.army.mil](mailto:Michelle.deGuzman@usace.army.mil) or  
Brittany Ford at 502-315-6311 or by email:  
[Brittany.N.Ford@lrl02.usace.army.mil](mailto:Brittany.N.Ford@lrl02.usace.army.mil)



**Directions: I-65 from North** - Take the "Arthur Street" exit and follow the ramp past Lee Street to Brandeis. Turn right onto Brandeis and follow it through the railroad underpass (at this point the name changes to "Cardinal Blvd"). Go through the light after the underpass and take the next left into the U of L campus. Turn left at the stop sign (you'll see the visitor's booth ahead of you) and follow that until you see the University Club directly ahead of you. Go around the circle and park in the parking lot on the left side of the University Club.

**I-65 from South** - Take the second "Eastern Parkway" exit and you will come to a stop sign at the bottom of the ramp. Go through the stop sign onto Warnock and you will immediately come to another stop sign at Crittenden Dr. Turn left onto Crittenden and continue until it ends at Bradley Dr. Turn left onto Bradley and continue to its end at Brandeis. Turn left onto Brandeis and follow it under the interstate and then through the railroad underpass (at this point the name changes to "Cardinal Blvd"). Go through the light after the underpass and take the next left into the U of L campus. Turn left at the stop sign (you'll see the visitor's booth ahead of you) and follow that until you see the University Club directly ahead of you. Go around the circle and park in the parking lot on the left side of the University Club.

### Contents

News from The Post  
President. . .

Summary of March General  
Meeting . . .

SAME Engineering and  
Construction Camps . . .

Focus On . . .

News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award

News from the Scholarship  
Committee . . .

News from the Student  
Chapter . . .

May Meeting . . .

Kentuckiana Post Board

2008 Post Schedule

## KENTUCKIANA POST, SAME BOARD 2008

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Treasurer: Mr. John Allison, PE	502-315-6360	<a href="mailto:john.f.allison@lrl02.usace.army.mil">john.f.allison@lrl02.usace.army.mil</a>
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Elected Director 2008-2009: Ms. Rosemary Gilbertson, PE	502-315-6503	<a href="mailto:rosemary.gilbertson@usace.army.mil">rosemary.gilbertson@usace.army.mil</a>
Elected Director 2008-2009: Mr. Gerard Edelen, PE	502-315-6310	<a href="mailto:gerard.j.edelen@usace.army.mil">gerard.j.edelen@usace.army.mil</a>
Elected Director 2008: Mr. Stephen Bickel, PE, PLS	502-212-5000	<a href="mailto:steve.bickel@stantec.com">steve.bickel@stantec.com</a>
Elected Director 2008: Mr. Mickey Jones, PhD	859-252-9980	<a href="mailto:mjones@masonandhanger.com">mjones@masonandhanger.com</a>
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Program Co-Chair: Matthew Rathsack, PE	586-727-0777	<a href="mailto:matt.rathsack@tetrattech.com">matt.rathsack@tetrattech.com</a>
Education & Training Co-Chair: Mr. Robert Campbell, PE	502-992-2980	<a href="mailto:rcampbell@qk4.com">rcampbell@qk4.com</a>
Education & Training Co-Chair:		
Fort Knox Co-Chair: COL Jeff Ogden	502-315-6103	<a href="mailto:jeffrey.s.ogden@lrl02.usace.army.mil">jeffrey.s.ogden@lrl02.usace.army.mil</a>
Fort Knox Co-Chair: Ms. Rachael Haunz	502-315-6276	
National Security Co-Chair: Ms. Tammy Dean	502-252-9980	<a href="mailto:tammy.dean@mhgrp.com">tammy.dean@mhgrp.com</a>
National Security Co-Chair: Mr. Brian James, PE, SE	502-339-3557	<a href="mailto:mbjames@mbakercorp.com">mbjames@mbakercorp.com</a>
Scholarship Co-Chair: Ms. Veronica Rife, PE	502-315-6785	<a href="mailto:veronica.l.rife@lrl02.usace.army.mil">veronica.l.rife@lrl02.usace.army.mil</a>
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Young Member Affairs Co-Chair: Mr. Wil Ailstock, PE	502-315-6441	<a href="mailto:will.ailstock@lrl02.usace.army.mil">will.ailstock@lrl02.usace.army.mil</a>
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**SOCIETY OF AMERICAN  
MILITARY ENGINEERS,  
KENTUCKIANA POST**

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**DEDICATED TO THE  
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## **2008 KENTUCKIANA POST SCHEDULE:**

### **Regular Post Membership\***

**20 May 2008** SAME Scholarship Meeting  
University of Louisville, Louisville, KY

**17 June 2008** New Continuing Education Requirements for  
PE Registration Renewal, David Cox  
Kentucky Board of Engineers and Land Surveyors  
Mazzoli Federal Bldg., Louisville, KY

### **Conferences**

**20 - 23 May 2008** Joint Engineer Education & Training Conference & Expo  
<http://www.same-2008.org>  
Minneapolis, MN

#### **Contents**

News from The Post  
President . . .

Summary of March General  
Meeting . . .

SAME Engineering and  
Construction Camps . . .

Focus On . . .

News Of Interest . . .  
Erin Hall  
ECC Receives Eisenhower  
Award

News from the Scholarship  
Committee . . .

News from the Student  
Chapter . . .

May Meeting . . .

Kentuckiana Post Board

2008 Post Schedule

\* Regular Post meetings are scheduled for the third  
Tuesday of the month unless otherwise noted.

# SAME-ASCE MIDWEST LEVEE CONFERENCE

## MANAGING FLOOD RISK TOGETHER

*Hyatt Regency St. Louis Riverfront (formerly Adam's Mark) June 2-5, 2008*



**Come to St. Louis for the SAME-ASCE Midwest Levee Conference for design, methodology, and operational practices that you can put to work. Get ready for recertification and learn methods to improve your flood protection system for greater security behind your levees.**

**If you attended the ASFPM-NAFSMA Levee Safety Summit in February, you learned about levee certification, FEMA requirements, and liability. *Now come back to St. Louis to get the latest tools necessary to tackle those issues!***

[www.midwestleveeconference.com](http://www.midwestleveeconference.com)

Theme of Day One: Flood Risk Management		
Flood Risk Management, A Systems Approach		
IPET Findings and Lessons Learned from Hurricane Katrina in New Orleans		
Advanced Levee Technologies		
Historical Floods in the Midwest and Their Legacy		
Policy and Guidance	Infrastructure	Hydrologic and Hydraulic Considerations
Levee Safety Program Headquarters Perspective Continued	NOLA Floodwall Failure Modes	Revisions to Upper Mississippi and Missouri Rivers Flood Profiles
Seismic Activity & Vulnerabilities	NOLA Soil/Structure Interaction Problems	Interior Drainage Considerations
PL 84-99 Emergency Response and Repairs	Underseepage: the Silent Killer of Levees	Cumulative Effects of Levees in Floodplains
Federal Authorized Funding Programs	NOLA Full Scale Floodwall Load Test	Environmental and Socioeconomic Concerns
Risk Communication	National Levee Inventory Program	Multipurpose Levees Panel Discussion
Levee Inspection Tools		
Theme of Day Two: Levee System Assessments and Technology Exchange		
The Architect-Engineer (AE) Role		
FEMA's Flood Map Modernization (Map Mod) Program		
Short-Range Ensemble Forecasting (SREF)		
California Flood Safe Program		
USACE NFIP Levee Certification Criteria		
Flood Risk Management Systems	Levee and Floodwall Criteria	Innovative Technologies
New Look at Levee Risk Assessments	I-wall Floodwall Design Criteria	New Flood Fighting Products
California Critical Repairs Program	T-wall Floodwall Design Criteria	LIDAR, The Cost Effective Topographic Tool
Mississippi River (Lower) and Tributaries Project	California Levee Geotechnical Evaluation	New Hydrosurvey Technologies
Missouri River Levee Systems	Levee Vegetation Policy Revisions,	Slurry Cutoff Walls for Seepage Controls
Ohio River Levee Systems	Underseepage Design Criteria	Deep Soil Mixing Soil Improvements
Upper Mississippi River Comprehensive Plan	Embankment Stability Design Criteria	Directional Drilling Under Levees
Theme of Day Three: Continuing Challenges		
Local Cost Share Opportunities		
Panel Discussion – Levee Safety, Emergency Response, and Communications Strategy (USACE, STARRS, MO SEMA, IL)		
Bi-State Regional Levee Summit, Hosted by East-West Gateway Council of Governments (USACE, Illinois Counties of Madison, St. Clair and Monroe, City of St. Louis, East-West Gateway)		