

## PRESIDENT'S MESSAGE

I attended the FES Annual Meeting at the Breakers in Palm Beach last month. The Breakers is a wonderful old hotel originally constructed by railroad magnate Henry Flagler. The Breakers originally opened in 1896 has burnt down twice since. The current Breakers reopened in 1926 and the architecture was modeled after Villa Medici in Rome. The finishes and furnishings in the Breaker are first class luxury and the lobby and some meeting rooms are beyond extraordinary. The Breakers is one of the finest hotels in the world with magnificent architecture, stunning grounds, and world class service. The amenities include a golf course, four swimming pools, a sandy beach with crystal clear water, and a coral reef within swimming distance just off the beach. The Breakers was a great venue for the FES Annual Meeting. The Annual Meeting featured the FES Board Meeting, the Florida Engineering Foundation Silent Auction, vendor exhibits, a day of Continuing Education classes, and numerous receptions and dinners where attendees could network and socialize. One highlight was the FES Awards Breakfast where Jon Murray received the 2<sup>nd</sup> Place Award for Chapter Excellence for the Treasure Coast Chapter Project Lead The Way Program. Other highlights for me included having a beer with old friends at the UF Gator Reception and the FE-CON Reception.

The Continuing Education sessions that I attended were particularly good this year. There were two interesting sessions regarding "green" buildings and the LEED certification programs for buildings. A third session on changes to erosion and sedimentation control requirements was informative and entertaining, and the presentation by the Assistant Chief of the ACOE Everglades Division regarding the South Florida Ecosystem (Everglades) Restoration Update was fascinating. In all, there were 12 continuing education session offerings and the Friday afternoon sessions provided the opportunity to fulfill the Technical CEU requirements for PE license renewal.

The FES Annual Meeting is always a family friendly event. Spouses and kids can enjoy the hotel pool and beach while the engineers take care of FES business and Continuing Ed classes. These events also provide down time for engineers to spend time with their family and enjoy the pool or beach. Next year, the FES Annual Meeting is at the Marco Marriott on Marco Island and I suggest that you consider going for the fun, professional development, networking, and socializing with fellow engineers. I guarantee that an Annual Meeting will get you charged up about FES and will provide a fun and memorable experience.

*Paul Bangs, PE, President*

## Calendar of Events for Upcoming Months



September 12	<b>UF VS TROY, UCF @ SOUTHERN MISS</b> <b>FSU VS JAX STATE, FAU BYE</b> <b>PURDUE @ OREGON, FIU @ ALABAMA</b>
Sept 15-17	<b>FICE ROADSIDE DESIGN COURSE</b> <b>@ TAMPA WATERSIDE HOTEL</b>
September 19	<b>UF VS TENNESSEE, UCF VS BUFFALO</b> <b>FSU @ BYU, FAU @ S CAROLINA</b> <b>PURDUE VS NIU, FIU @ RUTGERS</b>
September 24	<b>Charlie Geer, PE; Kimley-Horn</b> <b>Recent Court Cases that Expand Liability</b> <b>For Engineers &amp; Other Professionals</b> <b>@ Monarch Country Club</b>
September 26	<b>UF @ KENTUCKY, UCF VS E CAROLINA</b> <b>FSU VS USE, FAU VS UL-M</b> <b>PURDUE VS NOTRE DAME, FIU VS TOLEDO</b>
October 3rd	<b>Fishing Tournament</b> <b>&amp; Shrimp Boil</b> <b>@ Indian Riverside Park</b> <b>Fishing Starts @ 7AM, Weigh-In from 3-4</b> <b>Shrimp Boil @ 5PM- ?</b> <b>UF BYE, UCF VS MEMPHIS</b> <b>FSU @ BC, FAU VS WYOMING</b> <b>PURDUE VS NORTHWESTERN, FIU VS UL-M</b>

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## Sept. Meeting at a Glance...

**Speakers:** Charlie Geer, PE; Kimley-Horn

**Topics:** Recent Court Cases that Expand Liability For Engineers & Other Professionals

**Where:** Monarch Country Club Clubhouse  
Monarch Golf Club, Palm City, FL

**When:** Thursday, September 24th  
Cash Bar 6PM; Dinner at 7PM

**Dinner :** Option 1-Prime Rib; 2-Chicken Cordon Bleu

**Cost:** \$35 PER PERSON (\$17.50 FOR GOVERNMENT EMPLOYEES)

**RSVP:** Steve Gaydosh, P.E. (772) 446 - 6082 or [sagengr@hcontrol.com](mailto:sagengr@hcontrol.com) w/ dinner choice!!

## VOLUNTEERS NEEDED! MATHCOUNTS

needs your help contacting local schools to sign up for the competition. Contact Kelly Cranford or Chad Rucks at [keranfor@sfwmd.gov](mailto:keranfor@sfwmd.gov) or [crucks@sfwmd.gov](mailto:crucks@sfwmd.gov) to see who you can contact to help out.

### Message from the Mailbag:

August 7th, 2009

This thank you note comes a bit late, but I would like to thank all of you for allowing me to become a recipient of one of your elite scholarships. The Florida Engineering Society has given me an opportunity to securely complete my college education. I hope to keep the society informed with my college experience. I would also like to thank the society for judging the engineering fair at Lincoln Park Academy. It was through the fairs that gave me a path into my future.

Thank you!  
Kelly Quintero



## ENGINEERING JOKE OF THE MONTH

An engineer and a lawyer were recently fishing in the Caribbean. The fishing was outstanding and they got to talking about their vacations.

The lawyer said, "I'm here because my house burned down, and everything I owned was destroyed by the blazing fire. The insurance company paid for everything."

"That's quite a coincidence," said the engineer. "I'm here because my house and all my belongings were destroyed by a raging flood, and my insurance company also paid for everything."

The puzzled lawyer asked, "How DO you start a flood?"

## COMMITTEE CHAIRS

FES is a member driven organization. Our volunteers steer the Society in the best direction. Ideas and programs are created at the committee level and impact the organization at each level. Becoming part of a FES committee is very simple and rewarding.

We have several new volunteers, however, we still need a few more. For further details on a specific committee, or if you are interested in volunteering for any of these committees, please contact Paul Bangs at (772) 463-2848 or [pjbangs@bellsouth.net](mailto:pjbangs@bellsouth.net).

In addition, please thank your fellow members who are volunteering their time to make a difference.

### COMMITTEE CHAIRPERSONS

- Annual Meeting Steering – Jen Porter, P.E.
- Awards – Craig Dunkelberger, P.E.
- Charter & Bylaws – Adam Schildmeier, P.E.
- **COMMUNICATIONS ADVISORY – VACANT**
- Conservation & Env. Quality – Richard Creech, P.E.
- Constructed Environment – Allen Bottorff, P.E.
- Energy – Bill Thiess, P.E.
- Ethical Practices – Melissa Corbett, P.E.
- Golf Tournament – Pat Ferland, P.E.
- K-12 Education – Jen Porter, P.E.
- K-12 Education co-chair – Sarah Henke, E.I.
- K-12 Education co-chair – Adam Schildmeier, P.E.
- Leadership Advisory – David Andre, P.E.
- MathCOUNTS – Kelly Cranford, P.E.
- MathCOUNTS – Chad Rucks, P.E.
- Membership Development – Pat Ferland, P.E.
- Philanthropy – Will Cornelius, P.E.
- Prof. Concerns – Allen Bottorff, P.E.
- Prof. Development – Marcos Montes De Oca, P.E.
- Project LTW Co-Chair—David Andre, P.E.
- **PROJECT LTW CO-CHAIR - VACANT**
- Scholarship Co-Chair – Paul Bangs, P.E.
- Scholarship Co-Chair - Sue Zheng, PE, Phd
- Student Prof. Development – Sean Donahue, P.E.
- Webmaster - Jon Murray/Adam Schildmeier

### CHAPTER LIAISON REPRESENTATIVES

- Engineers in Government - Kelly Cranford, P.E.
- Engineers in Construction - Paul Bangs, P.E.
- Engineers in Education - Jen Porter, P.E.
- Engineers in Industry - Marcos Montes De Oca, P.E.

# Membership News

## **FES Membership Renewal 2009-2010**

2008-2009 FES membership renewals are in the mail! Dues statements are mailed September 1<sup>st</sup> and are due October 1<sup>st</sup> to FES. Membership dues can be paid via credit card, check, money order, or online. Completed statements can be faxed to FES at 850-222-4349 or mailed to FES, PO Box 750, Tallahassee, FL 32302.

### **Renew on-line at [www.fleng.org](http://www.fleng.org)!**

Simply log in to the 'Customer Log In' section of the FES web page (right side of page). Your 'Customer Number' is your FES Number (located on your dues statement) and 'Password' is your last name. If you have any questions regarding your dues, please contact the Member Services Department at 850-224-7121.

# Chapter News

## **Did you know our chapter got an award?**

Sure enough, Past-President Jon Murray accepted the 2nd Place Trophy for Chapter Excellence (aka the ACE Award) at the 2009 FES Annual Conference in August. It's the second year in a row the Treasure Coast Chapter has received this distinction. A round of applause for everyone! Looks like you're in a pretty good chapter!

The award is given to chapters based on their individual activities such as Project Lead-The-Way and Math-counts.



## **FES/FICE Applications for 2010 Florida Engineering Leadership Institute Due September 11, 2009**

By now you've undoubtedly heard about the FES/FICE Florida Engineering Leadership Institute (FELI). After all, nearly 200 of your peers have graduated from this program.

Founded by FES Past-President John Zumwalt, PE and FICE Past-President Fermin Diaz, PE, FELI has been successful in realizing their intentions – to develop a vast network of community professionals and business leaders that will boost the positive profile, stature and public perception of engineering professionals in Florida. As graduates continue to spread the word about their experiences, we are seeing an increased interest from other FES/FICE members. Many times, the following question is asked:

The selection process will target individuals who will enhance the value, stature and exposure of being a class member and Alumni of the Leadership Institute.

Simply visit <http://www.fleng.org/leadership.cfm> for complete program information and selection criteria. An enrollment application with submittal instructions can also be accessed from this site.

To ensure an effective learning environment, class size is limited, so don't delay!

Questions? Contact Dee Kring, CAE at 850-224-7121 or [dkring@fleng.org](mailto:dkring@fleng.org).



## **Don't Forget to place an Advertisement in the 2010 FES and FICE Annual Directories!**

The FES Directory and Guide is a special issue featuring a complete membership roster, Society charter and bylaws, the Code of Ethics for engineers, information about the Florida Board of Professional Engineers, and the Laws and Rules that govern the engineering profession in Florida. Questions? Contact Kathy Roland at 850-224-7121 or e-mail [Kathy@fleng.org](mailto:Kathy@fleng.org).

# Help Wanted

**EAC Consulting, Inc** is looking for pipeline engineers and aviation engineers with a civil and/or mechanical engineering background. Florida Professional Engineering license is required with 10+ years of experience. Apply at [eacconsult.com](http://eacconsult.com).



**Okaloosa County** is looking for a **Public Works Director**. Minimum Requirements: Bachelor's degree in Civil Engineering, Public Administration or related field; supplemented by a minimum of eight (8) years progressively responsible experience in an engineering, technical or administrative capacity with a large scale public works or comparable organization, five (5) years of which shall be acquired in a supervisory/management capacity; or an equivalent combination of education, training and experience that provides the required knowledge, skills and abilities. Must be computer literate and possess a valid driver license.

**City of Pompano Beach** seeks Civil Engineer II or III.

CE-II: (\$56K-\$79K) requires BS and eligibility for Florida P.E.

CE-III: (\$62K-\$88K) requires BS, Florida P.E. registration and minimum 10-years civil engineering experience.

Check [www.mypompanobeach.org](http://www.mypompanobeach.org) for more details. EOE



## Market Yourself

### **Post Your OWN Resume on the FES Website**

As a member of FES, individuals may post (for free) their resume on the FES website ([www.fleng.org](http://www.fleng.org)). A brief paragraph (50 words or less) will be posted on this classified advertising page and the information may include your name (or blind PO Box), position seeking, years of experience, and contact information. Send your information to Kathy Roland at [kathy@fleng.org](mailto:kathy@fleng.org) or call FES headquarters at 850-224-7121.

### **MATHCOUNTS PROBLEM OF THE MONTH:**

A bag contains red marbles, white marbles, green marbles and blue marbles. There are an equal number of red marbles and white marbles, and five times as many green marbles as blue marbles. There is a 35% chance of selecting a red marble first. What is the fewest possible number of green marbles in the bag? Can't figure it out?

Find the Answer on Page 5!

### **Project Lead The Way Committee Meeting Announcement!!**

A Project Lead-the-Way Committee meeting will be held on Wednesday, Sept. 16<sup>th</sup> at the Applebee's Restaurant located at the northwest corner of the intersection of Port St. Lucie Blvd. and U.S. Highway 1 in Port St. Lucie. The meeting will begin at 6:00 pm and is expected to last 1 hour; those interested in volunteering for this year's project at Lincoln Park Academy are strongly encouraged to attend. Please contact David Andre at [DAndre@ACEinc.com](mailto:DAndre@ACEinc.com) or at 772.807.9191 for more information.

## Professional Development Hours (PDHs)

Date	Event	Location	PDHs	Cost
At Your Pleasure	The Essential Elements of Building Green in Hot, Humid Climates	Online	3 PDHs	\$150 FES/FICE Members, \$250 All Others Note: Must complete course w/in 3 months <i>For more information visit</i> <a href="http://www.fleng.org/tests.cfm?c_id=16">http://www.fleng.org/tests.cfm?c_id=16</a>
Sept 15-17 7:30AM-5PM Daily	FICE Roadside Design Course	Tampa Waterside Hotel & Marina	24 PDHs	\$599 FES/FICE Members, \$699 All Others After August 31st, \$50 late fee applies <i>For more information visit</i> <a href="http://www.fleng.org/seminars.cfm?event_id=391">http://www.fleng.org/seminars.cfm?event_id=391</a>
Sept 29	Engineering Sustainability: How to Be A Champion	Embassy Suites, Ft Lauderdale	4 PDHs	\$349 FES/FICE Members, \$449 All Others After September 15th, \$50 late fee applies <i>For more information visit</i> <a href="http://www.fleng.org/seminars.cfm?event_id=404">http://www.fleng.org/seminars.cfm?event_id=404</a>

<http://www.fleng.org/seminars.cfm>



**Please visit our website!**

<http://old.fleng.org/treasurecoast/>

**Send your comments and suggestions about our website to**

[aschildmeier@creechinc.com](mailto:aschildmeier@creechinc.com)

### Questions or Comments?

If you have any questions/comments, or if you would like something included in the monthly publication, please contact Adam Schildmeier at (772) 283-1413 or [aschildmeier@creechinc.com](mailto:aschildmeier@creechinc.com)

#### 2009 — 2010 Treasure Coast Chapter Board Members

Paul J. Bangs, P.E., President (772) 463-2848 [pjbangs@bellsouth.net](mailto:pjbangs@bellsouth.net)  
 Stephen A. Gaydosh, P.E., Vice President (772) 446-6082 [SAGENGR@HCONTROL.COM](mailto:SAGENGR@HCONTROL.COM)  
 Noah A. Handley, P.E., Treasurer (863) 763-8999 [noah.handley@aecom.com](mailto:noah.handley@aecom.com)  
 Adam Schildmeier, P.E., Secretary (772) 283-1413 [aschildmeier@creechinc.com](mailto:aschildmeier@creechinc.com)  
 Pat Ferland, P.E., Regional Vice President (772) 464-3537 [pferland@ct-eng.com](mailto:pferland@ct-eng.com)  
 Jonathan Murray, E.I., Past-President (417) 496-4453 [murrayjw1190@gmail.com](mailto:murrayjw1190@gmail.com)  
 David Andre, P.E., State Director (772) 807-9191 [dandre@aaceinc.com](mailto:dandre@aaceinc.com)

**TREASURE COAST CHAPTER**  
 Chartered 1987  
**FLORIDA ENGINEERING SOCIETY**  
 Affiliated with  
 NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS  
**P.O. BOX 8764, PORT ST. LUCIE, FL 34985**



MATHEMATICS POINT SOLUTION: Let r = red marbles. Let w = white marbles. Let g = green marbles. Let b = blue marbles. r = w and g = 5b. Since r = w, there is also a 35% chance of selecting a white marble first. That means there is only a 100 - (35 + 35) = 30% chance of selecting a green or blue. But we know that there are 5 times as many green marbles as blue so there is a 25% chance of selecting a green marble and 5% chance of selecting a blue marble. 35% of any number less than 20 will not result in an integer so let's look at whether 20 total marbles works. r = 7; w = 7; g = 5; b = 1. Yes. 5



**HEROES AT HOME** is a program Sears Holdings has created in partnership with Rebuilding Together in response to an urgent need to assist military families facing hardship.

**REBUILDING TOGETHER**, the nation's largest all volunteer home rehabilitation organization, is committed to bringing warmth, safety and accessibility to homeowners who do not have the financial or physical resources to complete home repairs and other necessary improvements.



***Help support Heroes at Home and Rebuilding Together or refer a veteran who may need assistance!***



<https://secure.groundspring.org/dn/index.php?aid=11774>



**ROBERT LAMARCHE** enrolled in the Army upon graduation from high school. He was deployed to Iraq. While there, he was struck by a bullet which resulted in permanent paralysis from the neck down.

Spc. LaMarche's community in Green Bay, Wisconsin, answered the call to action in the months that followed his recovery. Through a referral from his local Sears store, the Heroes at Home program was able to provide wheelchair friendly flooring, new windows and new siding to Mr. LaMarche's home.

An ABC News story of Spc. LaMarche and Heroes at Home can be found at:

<http://www.youtube.com/watch?v=9W9yWkVMhI4>

***Visit Heroes at Home and Rebuilding Together***

<http://www.searsholdings.com/communityrelations/hero/>

<http://www.rebuildingtogether.org/>



## ***PHILANTHROPY COMMITTEE***



Are you involved with a local charitable organization that is looking for help?  
Would you like to partner with your fellow chapter members to give back to our community?  
Please contact Will Cornelius, P.E. at [WCornelius@Ardaman.com](mailto:WCornelius@Ardaman.com) for additional information.