



# BLACKLINES

*A Monthly Newsletter for Members of the  
Treasure Coast Chapter of the Florida Engineering Society*

Volume 30, Issue 06

July 2015

## PRESIDENT'S MESSAGE

Dear Treasure Coast Engineers and Colleagues:

The mission of the Florida Engineering Society is to "support engineering education, advocate licensure, promote the ethical and competent practice of engineering and enhance the image and well-being of all engineers in the state of Florida". Our last Chapter event is a good example of how we are accomplishing at least most of our goals.

For those of you that attended our Scholarship Awards Dinner, three local high school students with outstanding academic achievements and aspirations of seeking an engineering related career were each awarded with \$1,000 scholarships on behalf of our Treasure Coast Chapter. As you all know, we do this every year. The available scholarship funds are accumulated from our membership fees, profits from our various fundraiser events and donations throughout the year. So there is no doubt that we are supporting engineering education.

Our guests of honor for the event were the Mayor of Port St. Lucie, Mr. Greg Oravec and his wife Tonia. The mayor presented the scholarships to the students and had following remarks about the importance of engineering in our society. Our society members interact daily with leaders of our community both in the public sector and private commerce. The professionalism displayed in our interactions with these leaders and the community, and the engineering excellence demonstrated by our engineering projects promotes the ethical and competent practice of engineering and enhances the image and will-being of all engineers.

Thanks to all of you that participated in the mission of FES, especially those that attend our events and fundraisers. Our next opportunity for you to participate in our mission is our annual fishing tournament. Please read the newsletter for details of this event.

Dan J. Zrallack, PE—FES Treasure Coast Ch., President

## Calendar of Events for Upcoming Months



July 14	FICE Transportation Committee Meeting
July 23	TC FES Officer Installation
July 29	FELI Alumni Reunion
July 29-Aug 2	FES/FICE 99th Annual Conf. Marriott Harbor Beach, Ft. Lauderdale
Aug 18-20	2015 Florida Transportation Data Symposium

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## *July Meeting at a Glance...*

- Who:** Treasure Coast FES
- What:** Officer Installations
- Guest:** FES Incoming President-Elect Larry Smith
- Where:** Manero's Restaurant  
2851 SW High Meadow Ave  
Palm City, FL 34990
- When:** Thursday July 23rd, Dinner at 7:00 pm  
Social Hour at 6:00 pm
- Cost:** \$35.00 per person
- RSVP:** *Pat Helms* at [vicepresident@tcfes.org](mailto:vicepresident@tcfes.org)  
by July 21st

### **FES/FICE 99th Annual Summer Conference and Exposition**

July 29 - August 1, 2015

The Florida Professional Engineers in Government (FPEG) are bringing you an offer to attend the FES 99th Annual Summer Conference and Exposition at the Marriott Harbor Beach resort in Ft. Lauderdale on July 29th through August 1st, 2015.

The Annual Meeting agenda has change this year. The full registration now includes the Thursday General Session featuring the Keynote speaker, Christopher Peterson "Raising the Costa Concordia". In addition the registration includes the Thursday Opening Reception in the Exhibit Hall; Friday FPEG breakfast, where the new FPEG officers will be installed; the Friday Exhibit Hall lunch; Friday educational sessions which now offers a full government track, where these will be technical presentation for which you can earn Continuing Education Credits. Additionally, the registration will include the Saturday Awards Breakfast and the Saturday Fan Frenzy. It is also highly recommended that you register for the FPEG Dinner Cruise, Friday July 31st, aboard the Jungle Queen Riverboat.

All registrations must be received at FES Headquarters by close of business (5 pm eastern) on July 10, 2015. Registrations will be accepted after the deadline at the conference with a \$50 late fee. You can register online via [https://www.fleng.org/seminars.cfm?event\\_id=698](https://www.fleng.org/seminars.cfm?event_id=698). Please also view the above website for special room rates available through FES at the Marriott, so long as hotel reservations are made by July 10, 2015.

## **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 Patrick Helms, PE at [vicepresident@tcfes.org](mailto:vicepresident@tcfes.org).

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

### COMMITTEE CHAIRPERSONS

- Annual Meeting Steering – Kelly Cranford, PE
- Awards – Craig Dunkelberger, PE
- Charter & Bylaws – Adam Schildmeier, PE
- Communications Advisory – Kelly Cranford, PE & Adam Schildmeier, PE
- Conservation & Env. Quality – Richard Creech, PE.
- Constructed Environment – Richard Creech, PE
- Energy – Jo-Ann Clynch
- Ethical Practices – Will Cornelius, PE & Allen Bottorff, PE
- Golf Tournament – Pat Ferland, PE
- K-12 Education – Adam Schildmeier, PE & Jennifer Gent, PE
- Leadership Advisory – Steve Gaydosh Jr., PE
- MathCOUNTS – Kathleen Edgemon, PE
- MathCOUNTS – Chad Rucks, PE
- Membership Development – Pat Ferland, PE
- Philanthropy – Will Cornelius, PE
- Prof. Concerns – Steve Gaydosh Jr., PE
- Prof. Development – Marcos Montes De Oca, PE
- Project LTW Co-Chair— Adam Schildmeier, PE
- Scholarship Co-Chair – Paul Bangs, PE
- Scholarship Co-Chair - Sue Zheng, PE, PhD
- Student Prof. Development – **VACANT**
- Webmaster - Adam Schildmeier, PE

### CHAPTER LIAISON REPRESENTATIVES

- Engineers in Government - Heath Stocton, PE
- Engineers in Construction - Paul Bangs, PE
- Engineers in Education - **VACANT**
- Engineers in Industry - Marcos Montes De Oca, PE
- Engineers Retired - **VACANT**

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

When Harper's mom takes him to school, she drives 3 km east, then 7 km north. When Salina's dad takes her to school, he drives 2 km west, then 5 km south. When Harper and Salina walk home, they each travel in a straight line from the school to their respective homes. How much farther does Harper walk to get home than Salina? Express your answer as a decimal to the nearest tenth.

Can't figure it out? Find the Answer on Page 5!

## **Engineering Joke of the Month**

### **The Airplane**

A programmer and an engineer were sitting next to each other on an airplane. The programmer leans over to the engineer and asks if he wants to play a fun game. The engineer just wants to sleep so he politely declines, turns away, and tries to sleep. The programmer persists and explains that it's a real easy game. He explains, "I'll ask a question and if you don't know the answer you pay me \$5. Then you ask me a question and if I don't know the answer I'll pay you \$5." Again, the engineer politely declines and tries to sleep.

The programmer, now somewhat agitated, says, "OK, if you don't know the answer, you pay me \$5, and if I don't know the answer, I'll pay you \$50!". Now, that got the engineer's attention, so he agrees to the game. The programmer asks the first question, "what is the distance from earth to the moon?" The engineer doesn't say a word and just hands the programmer \$5.

Now, it's the engineer's turn. He asks the programmer, "what goes up a hill with three legs and comes down on four?" The programmer looks at him with a puzzled look, takes out his laptop computer, looks through all his references and after about an hour wakes the engineer and hands him \$50. The engineer politely takes the \$50, turns away, and tries to return to sleep.

The programmer, a little miffed, asks, "Well? What's the answer to the question?" Without a word, the engineer reaches into his wallet, hands \$5 to the programmer and returns to sleep.

## **BIG CHANGES TO CONTINUING EDUCATION REQUIREMENTS**

House Bill 713 was signed into law by Governor Scott in June 2014. Among other rather minor changes, a huge change has been made to our continuing education requirements. The changes are summarized as follows:

Licensed professional engineers were required to obtain eight continuing education course hours every two years in order to renew their licenses. Of the eight hours, four hours are required to be on the laws and rules of professional engineers. The bill requires 18 continuing education course hours in order for licensed professional engineers to renew their licenses. Of the 18 hours, one must relate to the laws and rules of professional engineers, one must relate to professional ethics, and four must relate to the licensee's area of practice. The remaining hours may relate to any topic pertinent to the practice of engineering. Four hours of the continuing education course hours may be obtained by being an officer for a professional or technical engineering society, or serving as a member of the Legislature or as an elected state or local official.

**This portion of the bill became effective March 1, 2015.**

These continuing education requirements will not become effective until our next renewal cycle. A full copy of HB 713 can be found [here](#).

## **JOB OPENINGS**

The South Florida Water Management District is seeking an Electronics Technician-Supervisor that supervises and appraises performance of a technical team responsible for installing remote terminal units and associated instrumentation in the field; also responsible for supervising and coordinating the SCADA installation technicians on-site, as well as other on-site activities. For additional information and to apply, visit <http://careers.nspe.org/jobs/7202310/electronics-technician-supervisor>.

**If your company is currently looking to expand or has an opening please provide a brief summary and necessary information to our Secretary Colt Schwerdt at [secretary@tcfes.org](mailto:secretary@tcfes.org) to have the job opening advertised on your local Treasure Coast Florida Engineering Societies' addition of Blacklines.**

## **MEMBERSHIP NEWS**

### **Just for YOU**

FES is always working to increase benefits offered to members, and to make sure members are aware of their benefits. Below are just three of the benefits available to FES/NSPE members, and we encourage you to visit [www.fleng.org/membership.cfm](http://www.fleng.org/membership.cfm) for more information.

As an FES/NSPE member you are eligible for a \$20,000 scholarship to pursue a Corporate MBA degree with the Florida International University. That is almost half the cost of tuition, and available to you as an FES member.

Your FES/NSPE membership entitles you to a number of discounts on a wide variety of publications, standard contract documents, and other services. Make sure to visit NSPE's Benefits pages at [www.nspe.org/MemberBenefits/benefitpartners.html](http://www.nspe.org/MemberBenefits/benefitpartners.html) for more information and a complete listing of member benefit partners.

As an FES member you can connect with over 470 FES members throughout the state in the 'Members of FES' group on LinkedIn.

Have an idea? If you think of a benefit or service that you would like to see available to FES members, please don't hesitate to contact your Member Services Department at 850-224-7121 or email Janice Faulk, Member Services Coordinator at [janice@fleng.org](mailto:janice@fleng.org).

**Forward the online FES Membership application or FES Brochure to a friend or colleague today:**

[www.fleng.org/membership-app.cfm](http://www.fleng.org/membership-app.cfm)

[http://www.fleng.org/images/aboutFES/FES\\_Membership\\_Brochure.pdf](http://www.fleng.org/images/aboutFES/FES_Membership_Brochure.pdf)

# Professional Development Hours (PDHs)

Date	Event	Location	PDHs	Cost
At Your Leisure	The Project Management Professional	Online/DVD	4 PDHs	\$75 FES/FICE Members, \$99 All Others <i>For more information visit</i> <a href="http://www.fleng.org/distancelearning.cfm">http://www.fleng.org/distancelearning.cfm</a>
August 18-20, 2015	2015 Florida Transportation Data Symposium	Omni Orland Resort at ChampionsGate 1500 Masters Blvd, ChampionsGate, FL 33896	TBD (FDOT is working on this)	\$249 Register before 7/27/15, \$274 Register between 7/28/15 & 8/12/15 ; or \$299 Onsite Registration <i>For more information visit</i> <a href="https://www.fleng.org/seminars.cfm?event_id=670">https://www.fleng.org/seminars.cfm?event_id=670</a>

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



**Please visit our website!**

<http://www.tcfes.org>



**Send your comments and suggestions about our website or Facebook page to**  
[statedirector@tcfes.org](mailto:statedirector@tcfes.org)

## Questions or Comments?

If you have any questions/comments, or if you would like something included in the monthly publication, please contact Colt Schwerdt at (772) 380-3635 or [secretary@tcfes.org](mailto:secretary@tcfes.org)

### 2014 — 2015 Treasure Coast Chapter Board Members

Dan Zrallack, P.E., President (772) 878-0072 [president@tcfes.org](mailto:president@tcfes.org)  
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 Colt Schwerdt, P.E., Secretary (772) 380-3635 [secretary@tcfes.org](mailto:secretary@tcfes.org)  
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 Adam Schildmeier, P.E. State Director (561) 398-6090 [statedirector@tcfes.org](mailto:statedirector@tcfes.org)

#### TREASURE COAST CHAPTER

Chartered 1987

#### FLORIDA ENGINEERING SOCIETY

Affiliated with

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

P.O. BOX 8764, PORT ST. LUCIE, FL 34985



We can find Harper's and Salina's respective walking distances by using the Pythagorean Theorem. The walking distance is the hypotenuse of the right triangle formed by the driving distances. We can write the distance Harper walks home as  $\sqrt{3^2 + 7^2} = \sqrt{58} \approx 7.6$  km, and the distance Salina walks home as  $\sqrt{2^2 + 5^2} = \sqrt{29} \approx 5.4$  km. From here, we can determine that Harper walks 7.6—5.4 = 2.2 km farther than Salina.