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Florida  
Engineering  
Society

# BLACKLINES

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

Volume 30, Issue 03

March 2015

## PRESIDENT'S MESSAGE

Dear Treasure Coast Engineers and Colleagues:

Please take a few minutes to check out and bookmark our newly renovated Treasure Coast Chapter website.

<http://tcfes.org/>

Where you can get information about upcoming meetings and events, and view pictures for recent meetings on our home page.



Find archived newsletters.



Find contact information for your board members.



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

## Calendar of Events for Upcoming Months



March 24-25	FICE/FDOT Mutual Gains D5, DeLand
April 9-10	GMEC Conference, Hilton Cocoa Beach
April 15-16	FICE/FDOT Mutual Gains D2, Lake City
May 6-7	2015 Transportation Conference Wyndham Orlando Resort Intl.
July 29-Aug 2	FES/FICE 99th Annual Conf. Marriott Harbor Beach, Ft. Lauderdale

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**ENGINEERS**  
LEAD THE WAY

## *April Meeting at a Glance...*

- Who:** Treasure Coast FES/APWA  
**What:** FES/APWA joint Lunch Meeting  
**Guest:** APWA Members  
**Where:** TBD  
**When:** Lunch meeting TBD  
**Cost:** TBD  
**RSVP:** *Pat Helms* [vicepresident@tcfes.org](mailto:vicepresident@tcfes.org)

### **Scholarship Fundraising and Golf**

April 18 and May 2, 2015

Similar to the Treasure Coast FES Chapter Annual Golf Tournament there are two (2) upcoming golf tournaments that are seeking to raise funding for scholarships and community service initiatives. These fundraisers are put together by other professional societies that work closely with the field of engineering. The first tournament is scheduled for April 18, 2015 and hosted by the Indian River Chapter Florida Surveying and Mapping Society (FSMS); and the second tournament is scheduled for May 2, 2015 and is hosted by the Florida Treasure Coast Branch of the American Public Works Association (APWA). Please come have a good time playing in the golf tournaments and raising money to help educate college students in fields related in engineering. The tournament applications were attached to the email delivery of this March edition of Blacklines or can be found at the below contact information.

#### **FSMS Indian River Chapter Golf Tournament**

April 18, 2015—8:30 am start time  
Shotgun start—4 man scramble format  
Saint James Golf Club  
5613 NW Saint James Drive  
Port St. Lucie, FL 34983  
Ph: (772) 336-4653  
[www.stjamesgolfclub.net](http://www.stjamesgolfclub.net)

#### **Florida TC Branch APWA Golf Tournament**

May 2, 2015—7:30 am registration & 8:30 am start time  
Shotgun start—4 man scramble format  
Gator Trace CC  
4302 Gator Trace Dr.  
Ft. Pierce, FL  
Ph: (772) 464-7442  
[www.gatortracecountryclub.com](http://www.gatortracecountryclub.com)

## **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**

## **2015 Treasure Coast FES E-Week Banquet**



## **2015 TC FES Chapter Engineer of the Year**

Marcos Montes De Oca, PE was selected as the 2015 Treasure Coast FES Chapter Engineer of the Year recipient.



## **2015 TC FES Chapter Young Engineer of the Year**

Colt E. Schwerdt, PE was selected as the 2015 Treasure Coast FES Chapter Young Engineer of the Year recipient.

## **MATHCOUNTS PROBLEM OF THE MONTH: HEADED TO STATE!**

Zhiyuan and his family are planning to attend a football game. The time it takes Zhiyuan to get to the football stadium is dependent upon the traffic. If traffic is heavy, he will only average 30 mph and he will arrive right on time. If traffic is light, he will average 55 mph and arrive 1 hour and 15 minutes early.

In miles, what is the distance from Zhiyuan's house to the football stadium? Express your answer as a decimal to the nearest tenth.

Can't figure it out? Find the Answer on Page 6!

## **Engineering Joke of the Month**

### **Jar of Rocks**

A philosophy professor stood before his class and had some items in front of him. When the class began, wordlessly he picked up a large empty mayonnaise jar and proceeded to fill it with rocks, rocks about 2" in diameter. He then asked the students if the jar was full? They agreed that it was.

So the professor then picked up a box of pebbles and poured them into the jar. He shook the jar lightly. The pebbles, of course, rolled into the open areas between the rocks. He then asked the students again if the jar was full. They agreed it was.

The professor picked up a box of sand and poured it into the jar. Of course, the sand filled up everything else. "Now", said the professor, "I want you to recognize that this is your life. The rocks are the important things—your family, your partner, your health, your children—things that if everything else was lost and only they remained, your life would still be full. The pebbles are the other things that matter like your job, your house, your car. The sand is everything else. The small stuff."

"If you put the sand into the jar first, there is no room for the pebbles or the rocks. The same goes for your life. If you spend all your time and energy on the small stuff, you will never have room for the things that are important to you. Pay attention to the things that are critical to your happiness. Play with you children. Take time to get medical checkups. Take your partner out dancing. There will always be time to go to work, clean the house, give a dinner party and fix the disposal."

"Take care of the rocks first—the things that really matter. Set your priorities. The rest is just sand."

But then... an engineering student then took the jar which the other students and the professor agreed was full, and proceeded to pour in a glass of beer. Of course the beer filled the remaining spaces within the jar making the jar truly full.

The moral of this tale is: no matter how full your life is, there is always room for BEER.

## **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**

Culpepper & Terpening, Inc. is hiring for several positions throughout our various divisions within Engineering, Surveying and CEI. Culpepper & Terpening is the region's leading engineering and land surveying firm. We are committed to providing unparalleled quality service to Clients involved in infrastructure, environmental and land development projects. Our diversity of projects and clientele has created one of Florida's most exciting and challenging work environments. To apply with Culpepper & Terpening, please submit resume to Culpepper & Terpening, Inc., Human Resources, 2980 South 25<sup>th</sup> Street, Ft. Pierce, FL 34981, [careers@ct-eng.com](mailto:careers@ct-eng.com) or fax (772) 464-9497.

The South Florida Water Management District is seeking an experienced Professional Engineer that serves in a hands-on civil and structural engineering design capacity as a technical expert responsible for the preparation of construction drawings, technical specifications and supporting design reports and calculations for a broad range of water resource related projects. For additional information and to apply, visit us at [www.sfwmd.gov](http://www.sfwmd.gov), and click on the Careers link. Job reference 1349BR. EOE

**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 Anne Wilson, Member Services Coordinator at [awilson@fleng.org](mailto:awilson@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>
March 24-25, 2015	FICE/FDOT Interest-based Negotiations for Project Management and Professional Services (Mutual Gains)	District 5 Headquarters 719 S Woodland Blvd. DeLand, FL 32720	4 PDHs AOP	\$149 FES/FICE Members, \$249 Others <i>For more information visit</i> <a href="http://www.fleng.org/seminars.cfm?event_id=652">http://www.fleng.org/seminars.cfm?event_id=652</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**



## 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)  
 Patrick Helms, P.E., Vice President (561) 718-0899 [vicepresident@tcfes.org](mailto:vicepresident@tcfes.org)  
 Heath Stocton, P.E., Treasurer (772) 370-8203 [treasurer@tcfes.org](mailto:treasurer@tcfes.org)  
 Colt Schwerdt, P.E., Secretary (772) 380-3635 [secretary@tcfes.org](mailto:secretary@tcfes.org)  
 Marcos Montes De Oca, P.E., Regional Vice President (863) 634-2131 [regionalvp@tcfes.org](mailto:regionalvp@tcfes.org)  
 Sue Zheng, PhD, P.E., Past-President (772) 343-9787 [pastpresident@tcfes.org](mailto:pastpresident@tcfes.org)  
 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



Let's say that it takes x hours at 30 miles an hour to get to the stadium. That's a total of 30x miles. At 55 mph it takes 1 hour 15 minutes less than x hours or x-5/4. We have the equation 30x = 55(x-5/4). Solving, we determine it takes 30x = 55x-(5\*55)/4 → 25x=55x-(5\*55)/4 → 25x = (5\*55)/4 → x = (5\*55)/(25\*4) = 11/4 = 2 3/4 hours. Therefore the distance is 30\*2.75 = 82.5 miles.