



# BLACKLINES

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

Volume 30, Issue 05

May 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 last Thursday, there 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



May 29	2015 FES Leadership Conference
June 20	7th Annual TC FES Fishing Tournament
June 26	State Level FES Committee Applications Due
July 14	FICE Transportation Committee Meeting
July 29-Aug 2	FES/FICE 99th Annual Conf. Marriott Harbor Beach, Ft. Lauderdale

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**ENGINEERS**  
LEAD THE WAY

## June Meeting at a Glance...

- Who:** Treasure Coast FES
- What:** Annual Fishing Tournament
- Guest:** N/A
- Where:** CAPTEC Engineering, Inc.  
301 NW Flagler Ave  
Stuart, FL 34994
- When:** Saturday June 20th at 7:00 am  
3:00 pm Fish Fry
- Cost:** \$30.00 per fisherman or  
\$25.00 per person for fish fry only
- RSVP:** *David Andre* [dander@aceinc.com](mailto:dander@aceinc.com) or  
*Gary Jones* [gjones@gocaptec.com](mailto:gjones@gocaptec.com)  
*RSVP by June 15th*

### 2015 FES Leadership Conference

May 29, 2015

The 2015 FES Chapter Leadership Conference provides the tools, information and connections for today's (and future) leaders to make a difference in FES and in their profession. This one-day program is designed to reach new, emerging and seasoned leaders.

Participation is encourage from current and future FES leaders, chapter officers, members in line for chapter officer positions, and anyone wishing to enhance their overall leadership skills; whether a Professional Engineer or Engineer Intern. It is strongly encouraged that the incoming president or new officer positions at the chapter level attend the conference.

All registrations must be received at FES Headquarters by close of business (5 pm eastern) on May 22, 2015. Registrations will be accepted after the deadline on a space-available basis. A \$10 late fee applies. You can register online via [http://www.fleng.org/seminars.cfm?event\\_id=700](http://www.fleng.org/seminars.cfm?event_id=700). Or for additional information or late registration call 850-224-7121.

#### Registration Fees

FES Member	\$50.00
Students	\$50.00
Non-Members	\$100.00

## 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

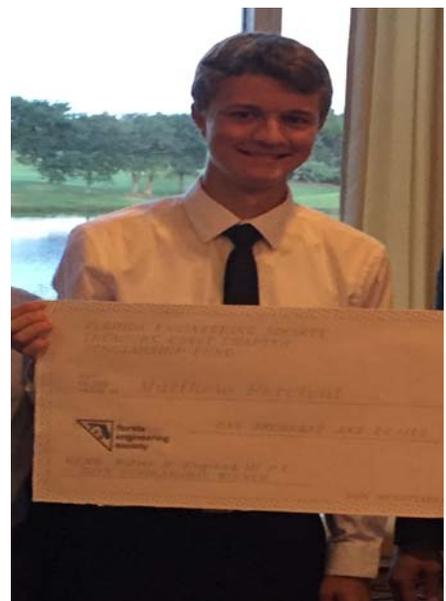
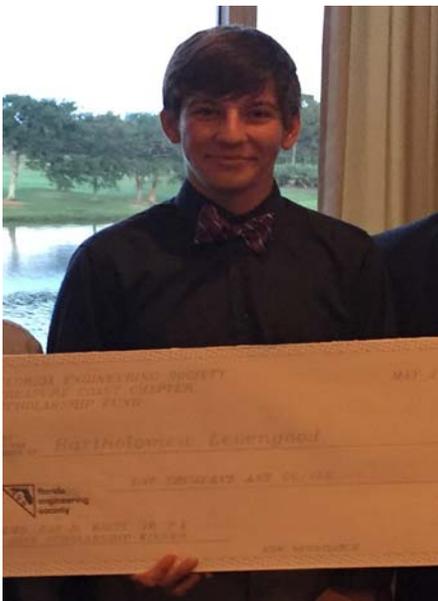
### CHAPTER LIAISON REPRESENTATIVES

- 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 Scholarship Banquet



City of PSL Mayor - Greg Oravec, Bartholomew Levengood - Ray H. White Scholarship Awardee , Devin Curran - John E. Donahue Scholarship Awardee, Matthew Percival - Walter B. England III Scholarship Awardee , and TC FES President - Dan Zrallack



Bartholomew Levengood - Ray H. White Scholarship Awardee  
Devin Curran – John E. Donahue Scholarship Awardee  
Matthew Percival – Walter B. England III Scholarship Awardee

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

Of six MP3 players, two are defective and four are not. If Cecil randomly chooses two of these MP3 players, without replacement, what is the probability that the two he chooses are not defective? Express your answer as a common fraction.

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

## **Engineering Jokes of the Month**

### **The Car**

There were three engineers in a car: an electrical engineer, a chemical engineer, and a Microsoft engineer.

Suddenly, the car stops running and they pull off to the side of the road wondering what could be wrong.

The electrical engineer suggests stripping down the electronics of the car and trying to trace where a fault may have occurred.

The chemical engineer, not knowing much about cars, suggest maybe the fuel is becoming emulsified and getting blocked somewhere.

The Microsoft engineer, not knowing much about anything, came up with a suggestion. "Why don't we close all the windows, get out, get back in, and open all the windows and see if it works?"

### **Fishing Vacation**

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?"

## **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**

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>
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**



## 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



Suppose players A and B are defective, and players C, D, E and F are not defective. There are  $6C_2 = 6!/(4! \times 2!) = 720/(24 \times 2) = 15$  ways Cecil can select a pair of MP3 players from these six players. Six of those pairs (C-D, C-E, C-F, D-E, D-F, E-F) are the result of Cecil selecting two players that are not defective. Therefore, the probability that the two MP3 players Cecil selects are not defective is  $6/15 = 2/5$ .