

# BLACKLINES

The Treasure Coast Chapter Newsletter Vol. 31

February 2017

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# President's Message

Happy February fellow FES'ers! The day of the Groundhog is upon us. Thank you to all who attended our Shrimp Boil last weekend! I'll apologize for not getting any pictures, but with the great turnout it was a challenge to even get around and speak with everyone. That's a good challenge to have though. I hope everyone had a good time and enjoyed the food and beverages. I know I had a good time. Welcome to all our newcomers as well. It's very refreshing to see some new faces.

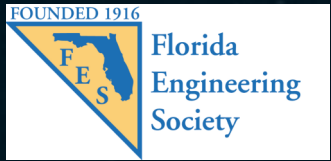
February is going to be a busy month, but it'll be worth it. This Friday, February 3rd is the local MATHCOUNTS competition hosted again by Indian River Community College. It's not too late to offer a helping hand; shoot me an email if you have the availability ([president@tcfes.org](mailto:president@tcfes.org)). If you're not familiar with the MATHCOUNTS competition I urge you to take a look ([www.mathcounts.org](http://www.mathcounts.org)).

Finally, later in the month we'll be hosting our annual Discovery-E (f/k/a E-Week) banquet. This is our semi-formal event where we come together to highlight the accomplishment of the engineering profession as well as recognize outstanding members in our local Chapter. We're still working to secure our speaker, but have high hopes that it will be someone interesting to all. We'll send out more information in the coming week or two.

I hope everyone has a great February!

*Heath*





**TREASURE COAST CHAPTER  
NOMINATIONS**

**ENGINEER OF  
THE YEAR**

2011-2012

CHAD RUCKS, P.E.

2012-2013

STEVE DOYLE, P.E.

2013-2014

KELLY CRANFORD, P.E.

2014-2015

MARCOS MONTES DE OCA, P.E.

2016-2017

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**YOUNG ENGINEER  
OF THE YEAR**

2011-2012

JENNIFER GENT, P.E.

2012-2013

HEATH STOCTON, P.E.

2013-2014

PATRICK HELMS, P.E.

2014-2015

COLT SCHWERDT, P.E.

2016-2017

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Please email the Board with your vote for the Treasure Coast Chapter Engineer of the Year and Young Engineer of the Year Nominations if you have not done so already.



The Treasure Coast Chapter of FES will be hosting the annual MATHCOUNTS Competition. This event will take place on **Friday, February 3rd, 2017** At the **IRSC Main Campus in Ft. Pierce from 9AM to 4PM** We are inviting all members and friends to participate in this event There are opportunities to volunteer even if only for +/- 2 hours .

If interested please contact our MATHCOUNTS Chairman:  
Chad Rucks, P.E.  
chadrucks1976@gmail.com  
(863) 801-1562

Try out this sample MATHCOUNTS Question:

## ***Problems & Solutions***

Friday January 20th is Penguin Awareness Day. To celebrate, let's learn a few fun penguin facts while solving some math problems!

There are 17 different species of penguins. The largest penguins belong to the Emperor Penguin species. A female Emperor Penguin, after laying an egg, leaves for two months to hunt. While the female is gone, the male stays behind to protect the egg and keep it warm. During this time, the male penguin eats NOTHING and loses an average of 26 pounds.



If the average male Emperor Penguin will grow to weigh 88 pounds, what percent of its total body weight is lost over the 2-month period? Express your answer as a decimal to the nearest tenth.

*If the average male starts at 88 pounds and loses 26 pounds, the percentage of weight lost is  $26/88 \times 100 \approx 29.5\%$*

Over the 2-month period (61 days), what is the male penguin's average weight loss, in pounds per day? Express your answer as a decimal to the nearest tenth.

*The male penguin loses 26 pounds in 61 days, which is  $26/61 \approx 0.4$  pounds per day.*

In addition to being the largest species, Emperor Penguins can also dive to the deepest depths of any penguin. The deepest recorded dive of an Emperor Penguin is around 1850 feet. Ocean pressure increases by 14.5 psi (pounds per square inch) for every 33 feet of depth.

At the bottom of the Emperor Penguin's deepest dive, how many pounds per square inch of pressure is it under? Express your answer to the nearest whole number.

*The pressure increases at 14.5 psi every 33 feet. The pressure at the bottom of the penguin's 1850-foot dive is  $1850/33 \times 14.5 \approx 813$  psi.*

If the greatest recorded underwater pressure a human has ever withstood is 191 psi, then, compared to a human, how many times greater is the maximum amount of underwater pressure an Emperor Penguin can withstand? Express your answer to the nearest whole number.

*The Emperor Penguin can withstand approximately  $813 \div 191 \approx 4$  times as much pressure.*

# DREAM BIG

Volunteer and inspire the next generation of engineers.

**DiscoverE.org #Eweek2017**



This year The Treasure Coast FES will celebrate Engineers Week on

**Thursday, February 23, 2016**

More information regarding this event will follow in the coming days

# 2017 Calendar of Local Events



## March

The Treasure Coast FES Annual Golf Tournament



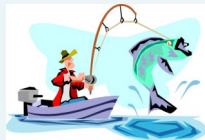
## April

A PDH Speaker and Dinner Event



## May

The Annual Treasure Coast FES Scholarship Banquet



## June

The Annual Treasure Coast FES Fishing Tournament



## July

The Treasure Coast FES Officer Installation

# 2017 Calendar of Statewide Events

## 2017 MATHCOUNTS

MATHCOUNTS 2017 is finalized and on the calendar for March 23 & 24, 2017 at the Sawgrass Marriott Resort & Spa (1000 PGA Tour Boulevard, Ponte Vedra Beach, FL 32082); 904-285-7777.

## Florida Engineering Society – Energy Committee

Energy – “google it” and you’ll receive 1.33 billion hits! It’s a topic sure to inspire a wide spectrum of passions – from global warming to sustainability in design...to resource preservation. And, yet, there is so much to be done and – many would say – so little time to do it.

We are the Energy Committee of the Florida Engineering Society – we represent nearly 3,500 engineers – from rocket designers to nuclear power researchers to wind/solar renewable implementers. And, we need you – and your fresh passion for energy initiatives.

No previous experience necessary – only a desire to join a network of engineers seeking improvements in our “energy profile” for the state of Florida.

- jot a note of your interest to: [shobbs@fleng.org](mailto:shobbs@fleng.org) or [don@equipintegration.com](mailto:don@equipintegration.com)

## NSPE Honor Awards

Nomination time is here. NSPE Honor Awards promote the professional engineer's contributions to society and recognize the achievements of the profession's very best. Take a look at the awards briefly summarized below and nominate someone today:

**NSPE Award:** Is the highest award given to an individual by the Society. It is presented to an engineer who has made outstanding contributions to the engineering profession, the public welfare, and humankind. NSPE Membership is not required for this award.

**NSPE Young Engineer Award:** Recognizes a young NSPE member who has made outstanding contributions to the Engineering Profession and community during the early years of one's career.

**NSPE Distinguished Service Award:** Recognizes an NSPE Licensed Member for exceptional contributions to the Engineering Profession, to one's community, and specifically to NSPE.

Applications for each award are at: [NSPE.org/award](http://NSPE.org/award). Submission deadline is January 31, 2017.

## The BOD voted to abolish FPER practice section

– if you have this practice section in any of your materials – please remove. The retired engineers prefer overwhelmingly to remain in their original practice section.

## FES Membership Renewal is Past Due

FES is **your** professional association. Your support and dedication is what helps us continue to build a stronger association. By renewing your membership, you will be a part of the team working to protect and celebrate the profession. [Login](#) to pay or call Janice/Jane at 850-224-7121.

## NSPE Fellow Member Nominations for 2017- Deadline February 1

The NSPE Fellow Program is a national program intended to recognize deserving professional engineers who have demonstrated long term professional service at the chapter, state and national levels of NSPE. The NSPE Board of Directors established the Fellow recognition program to honor those licensed members who have demonstrated exemplary service to the profession, the Society, and the community.

To be considered for [Fellow Membership](#), all nominees must be current dues paying NSPE national and state members or Life members.

## Professional Engineer Legislative Days

Tuesday, February 7, 2017 3:30 PM - 7:00 PM

Wednesday, February 8, 2017 8:15 AM - 12:00 Noon

[FES/FICE PE Legislative Days](#) (Video)

## FICE Transportation Conference

**May 10-11, 2017**

[Hyatt Regency Orlando International Airport](#)

- Learn the latest news and trends in Florida Transportation
- Network with over 350 of your peers

Interact with FDOT decision makers from all districts

# NSPE Code of Ethics

Engineering is an important and learned profession. As members of this profession, engineers are expected to exhibit the highest standards of honesty and integrity. Engineering has a direct and vital impact on the quality of life for all people. Accordingly, the services provided by engineers require honesty, impartiality, fairness, and equity, and must be dedicated to the protection of the public health, safety, and welfare. Engineers must perform under a standard of professional behavior that requires adherence to the highest principles of ethical conduct.

## Fundamental Canons

Engineers, in the fulfillment of their professional duties, shall:

1. Hold paramount the safety, health, and welfare of the public.
2. Perform services only in areas of their competence.
3. Issue public statements only in an objective and truthful manner.
4. Act for each employer or client as faithful agents or trustees.
5. Avoid deceptive acts.
6. Conduct themselves honorably, responsibly, ethically, and lawfully so

## The FES Mission Statement

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; and furthers the public's knowledge and understanding of the importance of the profession.

## Contact Us

### Treasure Coast Chapter

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