

## this issue

Upcoming Activities**May:**

- 9 – Board Meeting
- 17 – FES Golf Tournament
- 21 – Dinner meeting

**June:**

- 12 – Board Meeting

**July:**

- 10 – Board Meeting
- 24-27 – FES Annual Conference

**FES Mission Statement**

FES supports engineering education, advocates licensure, promotes the ethical and competent practice of engineering and enhances the image and well-being of all engineers in the state of Florida.

**President's Message**

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Greetings, FES Palm Beach Chapter!

I am hoping everyone had a great March and spring break if you were able to take some vacation. For those of you who were able to attend the March meeting we were glad to see you and hope you had a good time. A big thank you to Ramana Kari from SWA who was able to come out and speak.

Next month FES will host its 28th Annual Golf Tournament on May 17th at PGA National Resort and Spa the home of the Honda Classic! A flyer has been circulated to FES members for additional information and a link to the sign up online. Hard copy submittals can be sent to Jamie Parrish with Simmons & White to 2581 Metrocentre Blvd Suite 3 West Palm Beach, FL 33407. We are looking forward to seeing you there as golfers and sponsors! More information to follow regarding day of prizes, competitions, etc.

Following the tournament on Tuesday May 21st we will be having our scholarships and awards dinner at the Embassy Suites. Clinton Forbes the director of Palm Tran will be the guest speaker. It is always a good thing to present awards to a few distinguished FES members and scholarships for deserving students!

As always please call me if you have any ideas or want to discuss anything going on in FES. Hoping everyone continues having a great year.

Sincerely,

Zach Todd, P.E.  
FES Palm Beach Chapter President  
president@pbfes.org



## ***Chapter Meeting and Scholarship night***

Join the Palm Beach FES chapter for a dinner meeting with guest speaker Clinton Forbes, Director of Palm Tran. Please invite a colleague to join you at our monthly meeting.

- When: May 21, 2019  
5:30PM -Networking  
6:00PM - Dinner and Program
- Where: Embassy Suites (formerly the Crowne Plaza Hotel)  
1601 Belvedere Road  
West Palm Beach, FL 33406
- Cost: \$35 members/guests, \$20 for students
- RSVP: by May 19, 2019  
at [www.pbfes.org](http://www.pbfes.org) or [treasurer@pbfes.org](mailto:treasurer@pbfes.org)

## **Engineer's Creed**

*As a professional engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare. I pledge: To give the utmost of performance; To participate in none but honest enterprise; To live and work according to the laws of man and the highest standards of professional conduct; To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations. In humility and with need for Divine Guidance, I make this pledge.*



## Florida Engineering Society Palm Beach Chapter 28th Annual Golf Jamboree

Benefiting the Richard A. Rogers Scholarship Fund & Mathcounts

**Friday, May 17th, 2019**  
**Fazio Course at PGA National Resort & Spa**  
**Four-Person Scramble**

### ENTRY FEE:

**\$680 PER FOURSOME OR \$170 PER PERSON;**  
ENTRY FEE INCLUDES: GREEN FEES, CARTS, RANGE  
BALLS, CONTESTS, LUNCH, DINNER, & BEVERAGES ON  
THE COURSE

**ENTRY DEADLINE: MAY 3RD, 2019**

#### SCHEDULE

12:00 PM - CHECK IN & LUNCH  
1:30 PM - SHOTGUN START  
6:30 PM - DINNER & AWARDS



#### LOCATION

PGA National Resort & Spa  
400 Ave of the Champions  
Palm Beach Gardens, FL 33418

#### SPONSORSHIP OPPORTUNITIES

Scholarship: Award scholarship in your name (\$1,000 minimum)  
Gift Bag: Your logo on 100+ gift bags (\$1,000)  
Beverage: Sign with logo at beverage station (\$500)  
Hole: Tee sign and flag with logo (\$250)  
Individual: Tee sign with logo (\$170)

#### ADDITIONAL INFORMATION

Cash Bar at Dinner, Additional Contests, Silent Auction, and Raffle Tickets available for purchase

**YOU CAN NOW REGISTER & PAY ONLINE AT [PBFES.ORG](http://PBFES.ORG)**

\*Please include golfer name(s), organization, and shirt size(s) with registration\*

Checks may be made payable to FES Palm Beach Chapter, Sponsorship checks only may be made payable to Florida Engineering Foundation for tax deduction purposes. Please return registration and payment to Jamie Parrish at [Parrish@SimmonsandWhite.com](mailto:Parrish@SimmonsandWhite.com), 2581 Metrocentre Boulevard Suite 3, West Palm Beach, FL 33407.



# Engineering Capstone Design EXPO

**JOIN US** as our graduating students demonstrate competency and leadership, highlighting their skills and knowledge.

*Robotics - Rapid Prototyping - Renewable Energy and more...*

**Wednesday, May 1**  
**5:30 – 7:30pm**

**Palm Beach Gardens Campus**  
**BioScience Bldg., SC127**

Oleg Andric – Electrical Power Technology  
andrico@palmbeachstate.edu  
561-207-5414

Eva L. Suarez – Engineering Technology  
suareze@palmbeachstate.edu  
561-207-5727





***March Dinner meeting with Ramana Kari, PE, Chief Engineer of Solid Waste Authority.***



Pictured from left to right: Ramana Kari (Speaker from Solid Waste Authority), Zach Todd (FES Palm Beach chapter President), Nick Clavelo (FES Palm Beach chapter Secretary), Jose Gomez (FES Palm Beach chapter Past President)



***Thank you, Ramana, for the great presentation!***



*Thank you to our members!*



# MATHCOUNTS<sup>®</sup>

## COMPETITION SERIES

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### *Are you smarter than a MATHCOUNTS mathlete?*

Molly has sketched a design for her new kite on a coordinate grid. The sides of her quadrilateral kite design are given by the equations  $y = (2/3)x + 30$ ,  $y = (-2/3)x + 50$ ,  $y = -2x + 30$  and  $y = 2x - 30$ . How many square units are in the area of Molly's design?

Based on the previous problem, what is the perimeter of Molly's kite design, in units? Express your answer in simplest radical form.

The length of the tail that Molly needs for her kite must be 1.5 times the average length of the kite's diagonal lengths. Based on the previous problems, how many units long is the tail Molly designs for her new kite? Express your answer as a decimal to the nearest tenth.

Answer from March. Full explanation online <http://mathcounts.org/resources/problem-archive>

If we look at the sums of four consecutive positive odd integers in order beginning with  $1 + 3 + 5 + 7 = 16$ , then  $3 + 5 + 7 + 9 = 24$ ,  $5 + 7 + 9 + 11 = 32$ ,  $7 + 9 + 11 + 13 = 40$ , we see that these sums form an arithmetic progression where the common difference is 8. The first seven sums are 16, 24, 32, 40, 48, 56 and 64. Since the seventh sum in this sequence is 64, it is the sum of the four consecutive odd integers beginning with the seventh positive odd integer. The seventh positive odd integer is 13, and  $13 + 15 + 17 + 19 = 64$ . The product of the greatest and least of these four integers is  $13 \times 19 = 247$ .

Using the figure, unique mathematical expressions are created by replacing each blank with a different number from 2, 4, 6 and 8 and by replacing each box with a different operator from +, - and  $\div$ . How many of these expressions, when evaluated, have an integer result?

For the expression to have an integer result, the expression must contain one of the four quotients:  $8 \div 4$ ,  $8 \div 2$ ,  $6 \div 2$ ,  $4 \div 2$ . For each of these quotients there are 3 possible locations since the quotient can appear at the beginning, middle or end of the expression. This gives us  $4 \times 3 = 12$  options right now. For each of these 12 options, there are 2 ways the other two numbers can be arranged and 2 ways the other two operators can be arranged. Therefore, for each of the four quotients, the remaining numbers and operators can be arranged in  $2 \times 2 = 4$  different ways. Thus, the number of unique expressions that result in an integer when evaluated is  $12 \times 4 = 48$ .

What is the positive difference between the greatest and least possible integer results of the expressions in the previous problem?

If the expression contains the quotient  $8 \div 4$ , the possible results are -2 and 6. If the expression contains the quotient  $8 \div 2$ , the possible results are 2 and 6. If the expression contains the quotient  $6 \div 2$ , the possible results are -1, 7 and 9. If the expression contains the quotient  $4 \div 2$ , the possible results are 0, 4 and 12. The list of all possible integer results, then, is -2, -1, 0, 2, 4, 6, 7, 9 and 12. The difference between the greatest and least of these results is  $12 - (-2) = 14$ .



## ***Become a Leader in Your Chapter***

Strong committees are critical to the success of our organization and they offer you an opportunity for meaningful involvement in the betterment of your profession. If you have the desire to contribute to the Society by assuming a volunteer position, please read below for a list of the vacant committee positions. If you have any questions or are interested in volunteering then please contact Zach Todd, P.E. at [president@pbfes.org](mailto:president@pbfes.org).

At a minimum, committee members are required to be members of the Palm Beach Chapter, attend chapter meetings, provide updates to the membership (through the newsletter, chapter meetings, board meeting and website) and manage the budget (if the committee requires funds).

### **Chapter Committees**

K-12 - **Jim Kunard**

Legislative Affairs

Chapter Webmaster

Community Service

Engineer It - **Alejandra Schmidt**

Membership Committee - **Nick Clavelo, Dallas Wait**

Scholarships - **Kathleen Farrell**

Mathcounts -**Lexi Johnsen**

Student Professional Development - **Krystin Berntsen**

Shrimp Boil -

Golf Tournament –**Mike Wood**

Leadership Advisory - **Rob Rennebaum**

Chapter, Other -**Denise Palmatier/ Shannon LaRocque**

### **State Committees**

Communications Advisory

Professional Development

Charter and Bylaws

Florida Engineering Foundation – **Lisa Stone**

CEQ -**Robert Higgins, Gerry Ward**

Membership Development

Annual Conference Committee – **Karen Brandon**

Legislative and Government Relations - **Robert Higgins**

Ethical Practices -**Arnoldo Artiles**

Water Resources Committee – **Kelly Cranford**

### **Practice Section Liaison**

Chapter members represent the Palm Beach Chapter of the Florida Engineering Society as a liaison to the following practice sections:

Education (FP EE)

Consulting (FICE)

Industry (FPEI)

Retired (FPER)

### **Community Liaison**

Chapter members represent the Palm Beach Chapter of the Florida Engineering Society on the following Palm Beach County Boards:

FAU Advisory Council -

Environmental Control Hearing -**Terry Horan**

Partnering

Construction Industry Licensing Board

### **Other Local Involvement**

FBPE and FEMC Liason – **Angelina Fairchild**

Land Development Regulation Advisory

School Board Engineering Academy Steering

School Board Construction Oversight

Email for information: If you are serving on committee and do not see your committee or information here please let us know. [secretary@pbfes.org](mailto:secretary@pbfes.org)



## *Chapter Leadership*

President: Zach Todd, P.E.  
Simmons & White, Inc  
[president@pbfes.org](mailto:president@pbfes.org)

Vice President: David Cowan Jr., P.E.  
Mock • Roos  
[vicepresident@pbfes.org](mailto:vicepresident@pbfes.org)

Treasurer: Alejandra Schmidt, E.I.  
HDR  
[treasurer@pbfes.org](mailto:treasurer@pbfes.org)

Secretary: Nick Clavelo, P.E.  
Kimley-Horn  
[secretary@pbfes.org](mailto:secretary@pbfes.org)

State Director: Fattoush Jafar, P.E., Ph.D  
Palm Beach County  
[statedirector@pbfes.org](mailto:statedirector@pbfes.org)

Past President: Jose N. Gómez, P.E., F.ASCE  
ECS Florida, LLC



*The Florida Engineering Society is a 3,700+ member organization representing the interests of engineers in Florida. An affiliate of the National Society of Professional Engineers, the Society is organized into six practice sections representing different areas of practice and 20 chapters which geographically blanket the state. Each of the chapters and practice sections is represented on the FES Board of Directors. The Society has a number of committees which organize into divisions under the direction of the vice presidents.*



## Upcoming Events:

### May

5 [ACEC Annual Convention](#)

29 [2019 ACEC-FL Transportation Conference](#)

June [FES/ACEC-FL Board and Orientation/Planning Meetings](#)

6-8

### July

9 [ACEC-FL Transportation Committee Meeting](#)

24 [2019 FES/ACEC-FL Annual Conference](#)

### October

13 [ACEC Fall Conference](#)



## ***News from ACEC-FL***

### **ACEC-FL Voting Representatives –**

We wanted you to be aware of our “New for 2019” ACEC-FL Board Position and Committee.

Mike Bell, PE is the ACEC -FL Board Civil/Land Development Director and invites your firm employees to participate in the Land Development Committee.

This committee will focus on Federal, State and Local issues that affect professional engineering services for land development, land use and professional practices.

The intent will be to have a state-wide committee and voice for issues related to Land Development.

We are requesting volunteers to help steer the direction of the committee from the ground up.

If you or one of your employees is involved with the Land Development practice in Florida and would like to participate (anticipate quarterly conference calls), please fill out the form below.

### **[ACEC-FL Land Development Committee Employee Sign Up](#)**





Upcoming FES/ACEC-FL Events



[Vendor registration is now available](#)

<https://www.fleng.org/event/ac2019>



## Legislative News

### CHANGES TO THE ENGINEERING GOVERNING STATUTE – CHAPTER 471

By: Angelina G. Fairchild, P.E., LEED AP, CXLT

FES - FBPE Liaison

Every year, usually in early February, over 150 members of the Florida Engineering Society (FES) and the Florida chapter of the American Council of Engineering Companies (ACEC-FL) gather in Tallahassee to meet with their legislative Representatives and Senators as part of what is referred to as PE Legislative Days. To some of our members, this event has become an annual pilgrimage aimed at keeping the Florida legislature informed about issues that affect the practice of engineering.

[Read the full article here](#)

### Florida Legislative Session Reports

The Florida Engineering Society promotes and defends the professional interests of all engineers in the state of Florida. To do so, we maintain a strong and effective voice with the legislature.

If you are interested in learning more about how to become involved, please [contact Samantha Hobbs](#), Director of Government Affairs and Executive Policy.

Stay up to date with weekly [Session Reports](#).



### Get to know your State Legislators

Chapters are encouraged to hold local meetings with their State Legislators. FES and ACEC-FL members are urged to begin educating and re-establishing relationships in personal meetings. FES has prepared a tool kit to help in this process.

## Legislative Tool Kit

### ACEC-FL CCNA Letter Campaign

ACEC-FL directs an educational letter campaign to educate public entities regarding the Consultant's Competitive Negotiation Act (CCNA). This campaign is driven by ACEC-FL members who anonymously send Request for Proposal (RFP) to headquarters. This method ensures that the government agency does not know which firm filed the complaint. ACEC-FL staff in return corresponds with government officials in an effort to educate them on the CCNA law and encourages them to amend their RFP process. This has been a successful program and we encourage all members to participate.



If you see an RFP that may be violating the CCNA law, please email [Samantha Hobbs](#). If a member firm or licensed engineer within a member firm knowingly violates CCNA, ACEC-FL believes you may be in violation of Chapter 61G15, rules and regulations. [CCNA Letter Catalog](#)

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**[ACEC-FL Land Development Committee Employee Sign Up](#)**



## FES ENERGY COMMITTEE

### MISSION

The FES Energy Committee provides energy resource and consumption efficiency in providing engineering perspectives on legislation, design, implementation, and construction of all engineer influenced projects and products.

The FES Energy Committee seeks to promote energy efficient systems design for all products and services to minimize impacts to the environment.

### VISION

## ACEC-FL ENERGY COMMITTEE

### PURPOSE

The committee undertakes a proactive legislative and regulatory advocacy program on energy topics and communicates with the ACEC FL membership on energy issues that affect their businesses by developing industry-wide consensus and leadership positions on a wide range of energy issues which are important to Florida engineering firms.

Increase ACEC FL visibility in Tallahassee on energy issues

Promote a Florida energy infrastructure agenda

Promote passage of a comprehensive Florida Energy policy and legislation

Promote ACEC FL interests in legislation and regulation related to climate change, clean energy and sustainability

Collaborate with other associations and client organizations to promote ACEC FL energy agenda and support PR efforts to promote the benefits of infrastructure investment

### DUTIES



## ACEC Report

ACEC/PAC - is the engineering industry's primary tool for political engagement at the national level. Supported by engineering professionals from across the country who work for member firms, the sole purpose of ACEC/PAC is to elect candidates to the U.S. House of Representatives and U.S. Senate who support policies and legislation favorable to the engineering industry.



ACEC/PAC is overseen by a committee of PAC Champions made up of engineering firm executives from all the ACEC member organizations and is regulated by the Federal Election Commission (FEC). ACEC/PAC is currently the largest federal PAC in the design industry, having grown more than 500% in 10 years. It supports candidates on a bipartisan basis and may give up to \$5,000 to a federal candidate per election, and up to \$10,000 per candidate for their federal election cycle. In the last election cycle, ACEC/PAC's winning percentage was 97%.

To learn more about ACEC/PAC, please contact Greg Knopp, Executive Director, Political Affairs or Jennifer Pugh, ACEC/PAC Director, or log on to visit the [ACEC/PAC site here](#).



## Florida Professional Engineers in Industry (FPEI)



### An Invitation to Innovators

### New Product Award

Enter your new Florida-developed product, machine, process, or material in the annual Florida Professional Engineers in Industry (FPEI) New Product Award competition. It's an opportunity to win public recognition for your innovations.

New and improved products stimulate the life and growth of Florida. These benefits result from research and development to which engineers make a unique contribution. This competition recognizes the results of those efforts and the foresight of the companies whose support bring new products to the marketplace. The purpose of the FPEI New Product Award is to recognize the full spectrum of benefits that come from the research and engineering of new products in our state.

For full details or an entry form, [click here](#)



The ACE Award competition emphasizes individual chapter activities. The ACE Award is presented to the winning chapters at the FES/ACEC-FL Annual Conference in July.

The emphasis on individual activities should allow for even competition between all chapters—*small, medium or large*.

### ACE Award Application

**Deadline for submission: *April 30, 2019***

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For More Information, Visit: <https://www.fleng.org/page/Awards>

Should you have any questions, contact Deanna Green at [dgreen@fleng.org](mailto:dgreen@fleng.org)

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STAY CONNECTED:





# ACEC

AMERICAN COUNCIL OF ENGINEERING COMPANIES  
*of Florida*

## 2019 ACEC-FL Outstanding Project Awards (OPA) Program

### *Submit Today!*

[OPA Nomination Form](#)

[OPA Program  
Procedure](#)





## Deadline for submission: **March 22, 2019**

The American Council of Engineering Companies of Florida (ACEC-FL), annually recognizes outstanding achievement by its member firms in accomplishing

the Florida Department of Transportation studies and projects. Firms are nominated for awards in seven project award categories:

- ***Outstanding Major Project***
- ***Outstanding Design-Build or CM at Risk Project***
- ***Outstanding Roadway Project***
- ***Outstanding Bridge Project***
- ***Outstanding PD&E / Planning Project***
- ***Outstanding Environmental Project***
- ***Outstanding Special Project***

Nominations for each award category may be submitted annually by each of the seven FDOT Districts, Florida's Turnpike Enterprise and by the Central Office. The ACEC-FL OPA Committee comprised of FDOT and ACEC-FL representatives and hereinafter called "the Committee," will select the winner in each of the seven project categories.

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2019 award recipients will be recognized at the **ACEC-FL Transportation Conference**,

May 29 & 30, 2019 at the Hyatt Regency Orlando International Airport.

**OPA Program  
Information**

**2018 OPA Recipients**

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Questions? Contact [cpinsky@fleng.org](mailto:cpinsky@fleng.org)



## Job Advertisements

# Kimley»Horn

Kimley-Horn is seeking a Transportation Engineer (EIT or PE) with 3+ years of industry experience to join our Transportation PD&E practice in our West Palm Beach office. He/she will work directly with the Project Manager and Senior Staff.

### REQUIREMENTS:

- A minimum of 3 years' experience in Transportation Engineering.
- EIT or PE Registration.
- Proven ability to effectively communicate ideas and information clearly and professionally.
- Extensive technical writing experience. (samples may be requested)
- Some knowledge of the PD&E process, and desire to learn it in-depth.
- Ability to talk with and present to members of the public.
- Proficiency in Word and Excel.

### DESIRED:

- Experience using MicroStation and/or PowerPoint
- NEPA/PD&E knowledge
- Knowledge of FDOT design standards

\*\*\*Kimley-Horn was named #1 on the Best Companies in Consulting & Professional Services list from FORTUNE and Great Place to Work.

[www.kimley-horn.com](http://www.kimley-horn.com)

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## KESHAVARZ & ASSOCIATES

POSITIONS AVAILABLE; Project Manager, Project Engineer, Engineer Intern, AutoCAD Designer

Keshavarz & Associates is currently seeking experienced, creative and motivated candidates to manage and support water and sewer infrastructure and land development design, permitting and construction administration for both public and private clients. Mentorship, exposure to budgeting, marketing and new business endeavors, client relations and career opportunities available for qualified individuals.



**KESHAVARZ**  
— & ASSOCIATES —  
CIVIL ENGINEERING | SURVEYING | CONSULTING

Keshavarz & Associates offers full benefits including 401k and tuition reimbursement.

Inquire or send resumes to Deborah Fulgenzi at [deborah@keshavarz.com](mailto:deborah@keshavarz.com) (561-689-8600)

### *Advising Opportunities*

Looking to reach over 400 Engineers each month? Then place your ad in the FES Palm Beach Chapter newsletter. We are accepting new ads and renewals for the 2018-2019 Clipboard editions. Just \$150 for one year of advertising in the Clipboard. Please email your business card advertisements to [secretary@pbfes.org](mailto:secretary@pbfes.org). Checks should be made payable to Florida Engineering Society Palm Beach Chapter and should be mailed to Zach Todd, P.E., Chapter President at Simmons & White, Inc. located at 2581 Metrocentre, West Palm Beach, Florida 33407.

The Palm Beach Chapter will publish wanted notices for Palm Beach Chapter members at no costs. We will also publish Help Wanted notices for local industry at a normal cost of \$25 per \$75 word advertisement (This offer does not apply to employment agencies working for a fee).

All entries will be subjected to editing and identities of individuals will be protected if requested. Please email your advertisement to Alejandra Schmidt at [secretary@pbfes.org](mailto:secretary@pbfes.org) by the 20th of the month. The posting will appear in the newsletter for the following month.

Checks should be made payable to Florida Engineering Society Palm Beach Chapter and should be mailed to Zach Todd, P.E., Chapter President at Simmons & White, Inc. located at 2581 Metrocentre, West Palm Beach, Florida, 33407