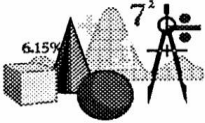




# SPARKS

Daytona Section Newsletter  
March 2020



## SECTION MEETING

Thursday March 26th at the Halifax River Yacht Club  
331 South Beach Street, Daytona Beach, Florida 32114



2019 Outstanding Section Membership  
Recruitment Performance  
Daytona Section

## PRESENTATION

A Fun Night with The Old Professor

\*\*\*\*\*

## CHAIR'S REPORT



We are members of the largest professional organization in the world. The IEEE is a nonprofit organization that is dedicated to use technology for the good of the people.

I have the IEEE app on my iPad. If you do not have the IEEE app, I recommend that you at least try it. Using the free IEEE app, I can look at many of the IEEE publications including IEEE Spectrum, my favorite magazine. In the online version today, I see where artificial intelligence (AI) helps scientists discover a powerful new antibiotic. An AI algorithm surfaces one drug that's already eradicated "superbugs" in the lab—and eight more that show promise in computer simulations.

A second article explains how computer scientists are trying to predict the Coronavirus's next moves, including Alessandro Vespignani describing the computational fight against the COVID-19 epidemic. This is technology addressing current societal needs. The information goes well beyond the traditional "electrical and electronic engineers" applications.

And if you want more detailed research, you can download the IEEE MyXplore app. This free app is a great research tool. I put "AI" into the search feature and received over 18,000 hits on the IEEE site, mostly cutting-edge information.

We are fortunate to be part of the IEEE.

*Rich*

## **FEBRUARY'S PRESENTATION**

### **NAVIGATING A CAREER IN AEROSPACE: FROM JETLINERS TO SATELLITES & ROCKETS**

The Daytona Section's February meeting was held in conjunction with Embry-Riddle's celebration of Engineers Week. The February 19th keynote address at Embry-Riddle Aeronautical University was delivered by Tamaira Ross. Ms. Ross is Blue Origin's Configuration Design Engineer and Manager.

In her presentation, Ms. Ross discussed the parallels between commercial aviation and commercial space as she reflected on her extensive career at Boeing and Blue Origin. According to Ross, the commercial space industry aims to emulate the arc of the commercial airline industry by increasing the life of vehicles, reducing operations and maintenance cost, and increasing the number and types of customers. The drive to reduce cost influences the design of both aircraft and launch vehicles and the systems in which they operate.

## **MARCH PRESENTATION**

**ANOTHER TALE FROM THE OLD PROFESSOR.....See Letters to the Editor, Next Page**



*Old Professor  
IEEE Daytona Section  
Daytona Beach, FL*

*Dear Old,  
I understand you are giving a presentation at the 26 March 2020 IEEE meeting. Can you tell me what you will be talking about? I want to see if it is worth the energy to attend.*

*Thank you,  
M. C. Squared*

*Dear Mr. Squared,  
I have no idea what I will be talking about. But it will be worth the energy to attend. When you do, would you please let me know what I did talk about just in case someone else asks?*

*Best Regards,  
The Old Professor*

## PE CORNER

### Engineering By Any Other Name Is Still Engineering

This article is excerpted from one by Scott R. Drury, PE, FBPE Board member, in the January 2020 FBPE Connections Newsletter <https://fbpe.org/>

William Shakespeare penned in the tragedy *Romeo and Juliet*:  
*What's in a name? That which we call a rose*  
*By any other name would smell as sweet.*

So, how does this apply to engineering? Engineering is our “rose.” Engineering work is engineering work, period. You can try to call it something different, but the smell test will reveal that it is engineering.

There is a common misconception among professionals who hold multiple licenses that an individual can choose which license or certification will be used for a particular project. In fact, any work performed in Florida that falls under the definition of engineering as defined in Section 471.005(7), Florida Statutes, is considered to be engineering, and all of the rules, including signing and sealing of plans, are applicable to the project.

A disciplinary case recently heard by the Board addressed this issue directly. An individual who was both a licensed contractor and a PE in Florida submitted plans to a local jurisdiction for a permit. The size of the job was small enough that a PE's services were not required by statute. The plans submitted by the individual were not signed and sealed, even though the work constituted Engineering as defined by statute. The individual explained that for that job, he was working under his contractor's license and not under his PE license since a PE was not required based on the size of the job. Unfortunately for him, that's not how the rules work.

Although the contractor is not required to submit signed, dated, and sealed documents for permitting in this case, if the work is done by a PE, the PE is required to sign and seal the plans. The exemption in this case is that the work was not required to be performed by an engineer. But since the work was performed by an engineer, all of the rules that apply to Engineering are in force, including signing and sealing the plans.

So, what does this all mean? A licensed engineer is always a licensed engineer, at least while they hold a valid license in Florida. As a licensed engineer, you cannot choose to be an engineer on one day and a contractor (if you have a contractor's license) another day. If you hold a valid engineering license and perform any work with the other license or certification that overlaps with the definition of engineering, the work is considered engineering and requires the seal of a Professional Engineer, as well as compliance with the responsibility rules and minimum standards of due care for the practice of engineering.

If you have any questions or concerns about the laws and rules regarding engineering, please contact FBPE's legal department at [\(850\) 521-0500](tel:850-521-0500), or email [board@fbpe.org](mailto:board@fbpe.org).

Whether you are a PE looking to attain required CEHs, or an engineer looking to learn something new or keep current with the latest trends in the profession, IEEE has seminars that will meet your needs. With renewal only 10 months away seminar demand is high. Sign up now!

Art Nordlinger, PE, Senior Member

### DAYTONA SECTION SHIRTS



We are pleased to offer Daytona Section polo shirts for our Section members. The shirts are embroidered with the IEEE Logo and DAYTONA SECTION on the left and your name and grade, if desired, on the right. The shirt is a high quality 5 oz, 65/35 poly/cotton pique in Royal Blue with white embroidery. Available in S - 2XL in men's as well as ladies' sizes. Price is \$30, including tax, for S-XL size's, 2XL size is \$3 additional.

For more information or to order shirts contact: Allan Jusko 386-671-3706 or [a.jusko@ieee.org](mailto:a.jusko@ieee.org).

### FUTURE MEETING DATES:

Final date for the 2020 spring session is: Apr 23.

### EDITORS NOTES

Visit our Daytona Section website: <https://ewh.ieee.org/r3/daytona/>

## ENGINEERING HUMOR

© Randy Glasbergen  
[www.glasbergen.com](http://www.glasbergen.com)



**"I'm applying for the Information Security position.  
Here is a copy of my resumé, encoded, encrypted and shredded."**

## **2020 SECTION OFFICERS**

### **Chair – Richard Kent**

206-369-1965 rtkentjr@msn.com

### **Vice Chair - W. Shawn Wilkerson**

386-322-7999 shawnwilkerson@ieee.org

### **Treasurer - Dr. Jianhua Liu**

386-226-7713 liu620@erau.edu

### **Secretary – Ron Gedney**

386-847-8094 r.gedney@ieee.org

### **Awards Chair – Dr. Keith Garfield**

386-226-7081 garfielk@erau.edu

### **Publicity/Media – John Horner**

201-240-6689 jhorner@gmail.com

### **Life Member Chair – Ron Gedney**

386-847-8094 r.gedney@ieee.org

### **Vice Chair – Martin Oksenhorn**

383-283-4339 moksenho@yahoo.com

### **Computer Society Chair – Dr. Keith Garfield**

386-226-7081 garfielk@erau.edu

### **Student Activities**

#### **ERAU - Dr. Keith Garfield**

386-226-7081 garfielk@erau.edu

#### **B-CU - Dr. Xiaohe Wu**

wux@cookman.edu

### **ERAU Student Chapter Chair- Victoria Rutenbeck**

Rutenbev@my.erau.edu

### **ERAU WIE Chair – Gabrielle Stoney**

stoney@my.erau.edu

### **B-CU Student Chapter Chair – Brent McGlashon**

Brent.a.mcglashon@students.cookman.edu

### **Webmaster – Charlie Husbands**

386-760-7163 chusbands@ieee.org

### **SRT Project Coordinator - Charlie Husbands**

386-760-7163 chusbands@ieee.org

### **SPARKS Editor - Allan Jusko**

386-671-3706 a.jusko@ieee.org

# MARCH 2020 MEETING

**Thursday March 26th** at the Halifax River Yacht Club  
331 South Beach Street, Daytona Beach, Florida 32114  
Just south of the Fire Station at the corner of Beach and Orange Streets

**TOPIC**– A Fun Night with the Old Professor

**SPEAKER** – Dr. Al Helfrick, Professor Emeritus at ERAU

## AGENDA

5:30 PM Greetings & Cocktails  
6:00 PM Dinner  
7:00 PM Presentation

## Dinner Selections

**Beef Tips Dijonnaise** – Sautéed Tenderloin tips with mushrooms, shallots, white wine, Dijon mustard, demi-glace and cream, served over bowtie pasta

**Pesto Style Chicken** – Chicken Breast pan seared. Served with a creamy pesto sauce, toasted pine nuts, and parmesan cheese, served with rice pilaf and vegetable medley

**Flounder Almandine** - Sautéed flounder, brown butter, lemon and almonds served with rice pilaf and vegetable medley

All Dinners come with HRYC House Salad and Bread Service, Coffee or Tea

**Members and guests \$20.00 each**  
**Students \$5.00**

## IMPORTANT DINNER NOTE!

**The Yacht Club is requiring us to give them a dinner count by the Tuesday afternoon before our meeting. As always, all members and guests are welcome to attend the meeting and presentations, however any dinner requests received after Tuesday afternoon may not be accepted**

**Please contact Allan Jusko by Tuesday March 24th at noon to give us a count for dinner or for further information**

**If you make reservations and are unable to attend, call prior to the event to cancel.**

**The Section is charged for all dinners ordered, please let us know if your plans change**

Allan Jusko Editor

386-671-3706