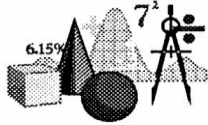




# SPARKS

Daytona Section Newsletter  
February 2019



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## FEBRUARY SECTION MEETING IN CONJUNCTION WITH ENGINEERS WEEK Thursday February 21<sup>st</sup>

### LOCATION FOR FEBRUARY'S MEETING

Jim W. Henderson Administration and Welcome Center, Duva Ballroom  
Embry-Riddle Aeronautical University  
600 South Clyde Morris Blvd, Daytona Beach, Florida

### PRESENTATION

Why We Need A Social Engineering Exposure Index (Sexi)

### CHAIR'S REPORT



The first item I want to mention is that the IEEE Daytona Section Executive Committee (ExCom) met on the last day of January. We talked about several issues related to the Dayton Section members. One item I find particular important is the attendance of our members and their families at our monthly meetings. My guess is that we have about 10% of our members attending meetings. These meetings have a great venue, good food at a reasonable price, and some extraordinary speakers who discuss many varied subjects some more news worthy than technical and some about far-reaching technology that will change our lives and your life. This month the meeting is at the Embry-Riddle Aeronautical

University (ERAU) which tends to attract a lot of students so we have lowered the student meal price to \$5 for, basically, all you can eat. Please see the details for this meeting later in this newsletter.

Another decision we made at the ExCom was to establish a LinkedIn presence in addition to our webpage. This was accomplished by our Vice Chair, Helen Hernandez.

As in previous years, the IEEE Daytona Section selected its two high school engineering winners at the Volusia Science Fair on January 26th. Hopefully, we can get these students to describe their work at one of our meetings.

Please remember to renew your IEEE memberships. I hope to see you all at our Thursday, February 21st meeting.

*Rich*

## DAYTONA SECTION SPECIAL AWARD WINNERS - 2019 TAMOKA SCIENCE AND ENGINEERING FAIR

The 2019 Tamoka Science and Engineering Fair was held on January 26<sup>th</sup> at Stetson University in Deland. Daytona Section members Charlie Husbands and Dave Defanti were judges for our Section's special awards in both the junior and senior divisions. The winners are invited to attend our April meeting to describe their project. Pictures below are the winners being presented with plaques by Daytona Section Editor Allan Jusko.



Junior Division award winner  
Takara White, Creekside Middle School



Senior Division award winner  
Brandon Saxour, Spruce Creek High School

## JANUARY'S PRESENTATION



Gary Vila, founder of Daytona Internet Marketing, gave an informative presentation on using social media marketing for business and connecting directly to your audience through social platforms like Facebook, Twitter, Instagram, and Pinterest. Gary spoke of developing methods for increasing a business or organizations visibility using Search Engine Optimization.

Photo of Gary Vila presented with the IEEE travel mug by Section Vice Chair Helen Hernandez.

## FEBRUARY PROGRAM

### WHY WE NEED A SOCIAL ENGINEERING EXPOSURE INDEX (SEXI)

For the Embry-Riddle Aeronautical University Engineer's Week (February 2019), the IEEE Daytona Section will host a discussion concerning the intersection of social engineering and personal information. A presentation of the difficulty associated with the classification and regulation of personal information, the methods used by social engineers to interfere with academia and research, as well as the process used by attackers on a key individual in the United States government.

Research, security bulletins, and the news media continue to warn of an increase of publicly available personal information. While social network sites and data breaches receive much of the blame, personal information provided by users has grown exponentially over recent years via social media, Website customization, online surveys, smartphones, fitness trackers, smart residential products, and a plethora of other venues. From January 2005 through January 2019, data breaches provided 11.6 billion records of personal information made available via public disclosure, Website distribution, and underground hacker markets for trade as well as purchase.

Publicly available personal information often facilitates the success of social engineering attacks on organizations, compromise of academic facilities, and theft of research. Little is known as to what personal information is available or potential for use in a social engineering attack. Even less is known as to the level of harm an organization can endure due to personal information exposure.

### OUR SPEAKER

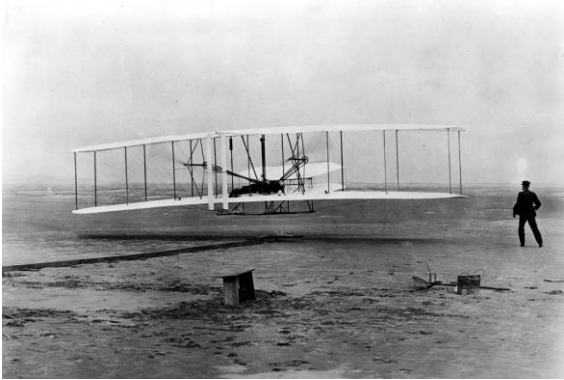


W. Shawn Wilkerson has over three decades working with information security for clients ranging from cellular provider startup to the world's largest notebook ring metals manufacturer. Shawn is the founder of Sanity, LLC; a company focused on integrating privacy and information security into a framework merging intellectual property, business rules, as well as daily operations into database abstraction layers and access control lists. In 2012, Shawn self-published *MODX Revolution: Building the Web Your Way* for an open source, content management system platform. In 2015, he completed his three years of solo-development for the entire backend for a pay-as-you-go cellular company. In 2018, Shawn created the Hacker Eyes™ startup to assess personal information exposure.

Currently, Shawn is finalizing his Ph.D. in Information Systems with a Concentration in Information Security advancing three decades of information systems/security experience into academia. His research interest is the intersection of social engineering and privacy.

## ANOTHER TALE FROM THE OLD PROFESSOR

# Aviation Goes Back to the Future



Wright's showed us how to fly.



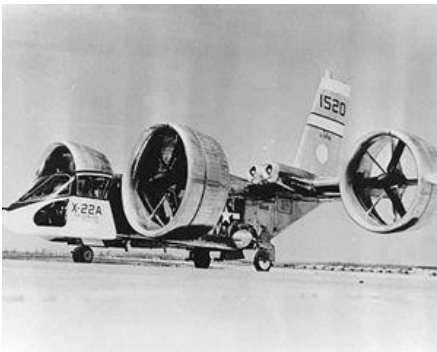
In 2019 Boeing proposes aircraft with struts.



Cessna has made the 172 with struts since 1955.



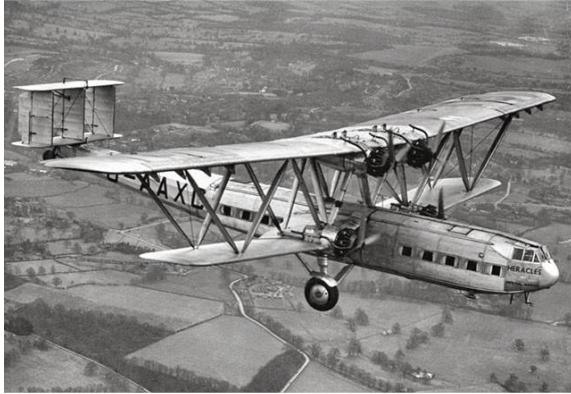
Airbus introduces the NEO with high bypass geared turbofans.



Bell Aircraft made their high bypass, geared turbofan, the X22, in 1966.



Bi wing designs are proposed for "boomless" supersonic aircraft.



The airliner of the future! A bi wing with lots of struts and four extremely high bypass fans and no supersonic boom.

*Dr. Al Helffrick, a.k.a The Old Professor*

## PE CORNER

### Continuing Education Audit Results

Reprinted from the FBPE Connections Newsletter  
[www.fbpe.org](http://www.fbpe.org)

Over 60 Professional Engineers licensed in Florida have been disciplined for failing to complete the required 18 hours of continuing education during the 2015-17 renewal period, and two cases are still pending before the Florida Board of Professional Engineers.

As part of the online renewal process, PEs attest that their CE hours have been or will be completed by Feb. 28 of the renewal year, as required by Rule 61G15-22.006, Florida Administrative Code, Demonstrating Compliance; Audits; Investigations.

FBPE will again be conducting random audits in 2019 to confirm that PEs have done their CE by the close of the previous biennium.

CE providers must furnish completion and attendance certificates to course participants, and PEs are required to maintain those records for four years (or two renewal cycles). If selected for the audit, a PE must produce those records as proof that he or she completed 18 hours of CE within the two-year period. Failure to produce those documents could result in a reprimand and \$1,000 fine or suspension of license until the PE demonstrates compliance.

In 2017, 3 percent of Florida-registered PEs were randomly selected from among licensees for CE audits as required by the rule; just over one thousand in total. FBPE investigators opened 104 initial complaints; about 11 percent of those audited. After review, two were closed because the PEs were incorrectly listed as non-compliant and complaints should not have been opened; and another was closed because the PE was deceased. Of the remaining complaints, 101 were investigated, and 62 of those ultimately could not demonstrate they had completed the CE requirements. These 62 have been disciplined by the Board.

The Board staff will soon send letters to the 3 percent of licensees selected for audit for 2019. The 62 PEs who have recently been disciplined will be audited in the coming months as well. PEs found in violation a second or subsequent time could have their license revoked.

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.

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:

The dates for the spring session are: Mar 28<sup>th</sup>, Apr 25<sup>th</sup>

## EDITORS NOTES

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



## **2019 SECTION OFFICERS**

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##### **Dr. William Barott**

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

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# **FEBRUARY 2019 MEETING**

**Thursday February 21<sup>st</sup>**

Jim W. Henderson Administration and Welcome Center, Duva Ballroom  
Embry-Riddle Aeronautical University  
600 South Clyde Morris Blvd, Daytona Beach, Florida

**TOPIC**– Why We Need A Social  
Engineering Exposure Index (SEXI)

**SPEAKER** – W. Shawn Wilkerson  
founder of Sanity, LLC

## **AGENDA**

5:30 PM Buffet

6:30 PM Presentation

## **Italian Buffet Dinner**

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

**Please contact Allan Jusko by Tuesday February 19th 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.**

Allan Jusko Editor

386-671-3706

[a.jusko@ieee.org](mailto:a.jusko@ieee.org)