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SIGNAL

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IEEE PES Scholarship Plus Initiative Application is now Open

The IEEE PES Scholarship Plus Initiative provides multiyear scholarships and career experience opportunities to qualifying U.S. & Canadian electrical engineering undergraduate students. As long as the scholar continues to meet renewal standards, he or she will receive up to three years of funding — US\$2,000 the first year, \$2,000 the second year and \$3,000 the third year — interspersed with up to two years of valuable, hands-on career experience.

We are now accepting applications from undergraduate students in the US & Canada for the PES Scholarship Plus Initiative. Over the last three years, we have distributed over US\$1.1M to 364 students from over 137 universities across the US & Canada. In 2013, PES Scholars were from 42 of the 50 US States (+ Washington, DC) and 5 Canadian Provinces. We would love to have a recipient from each US State and all Canadian Provinces in 2014. **The deadline to submit an application is June 30, 2014.** To apply please use following link http://www.ee-scholarship.org/how-it-works/students/

IEEE PES Mentoring Program

Another important part of the PES Scholarship Plus Initiative is the mentoring program. The Mentor Program offers a person the chance to give back to the next generation of leaders in the power and energy industry. We are actively seeking successful leaders in the field—both men and women—to serve as mentors to one or more of the Mentors can communicate directly with PES Scholars. PES Scholars via email, telephone or in-person. Participation in the mentoring aspect of the program is voluntary for PES Scholars. To sign up to be a mentor, go to PES-Careers at: https://www.myinterfase.com/ieeepes/mentor/



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IEEE-USA's Free E-Books to Members in March FREE E-BOOK

In March, IEEE-USA E-Books is offering "Doing Innovation -- Creating Economic Value: Book 3 -- Fostering an Innovation Culture" free to IEEE members.

In this e-book, author Gerard H. "Gus" Gaynor, a retired 3M director of engineering, talks about steps an organization can take to develop a workplace culture that encourages innovation. He notes that cultures develop over time, and it takes time and effort to develop a culture supportive of innovation.

Gaynor writes that, "The answer in one sense is very simple: find the right people; provide the freedom to act, but with discipline; implement effective and supportive management practices; provide the organizational resources and infrastructure; and promote an organizational attitude that focuses on achieving results."

Featured topics include, among others: Encouraging Professional Attitudes: People Performance: **Optimizing** Organizational Culture; and Developing **Appropriate** Management Practices.

"Fostering an Innovation Culture" can be downloaded at

http://www.ieeeusa.org/communications/ebooks/files/108vskj2i/Doing-Innovation-Book-3.pdf for free to IEEE members.

The non-member price is \$9.99.

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Power System Harmonics Seminar

Date: Friday, April 4, 2014

Time: Registration: 8:30 A.M. Seminar: 9:00 A.M. - 2:30 P.M.

Speakers: Dr. Ralph E. Fehr III, P.E., Electrical Engineering Department, University of South Florida

Location: Seminole Electric Cooperative

16313 N. Dale Mabry Hwy. Tampa Fl. 33618

RSVP: Online at: http://time2meet.com/fwcs-pes2/index.html

Space limited to the first 40 registrants!!!

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Questions: Serge Beauzile at 863-834-6511 or serge.beauzile@lakelandelectric.com

This seminar examines the causes of harmonics in a power system, the effects of harmonics on power system components, and means of mitigating those effects. Both the utility and the customer perspectives will be addressed. Graphical methods will be used to illustrate concepts to keep the mathematical complexity of this somewhat complicated topic to a minimum.

Speaker Bio: Dr. Ralph Fehr earned his B.S.E.E. degree from the Pennsylvania State University, his M.E.E.E. concentrated in Power from the University of Colorado at Boulder, and his Ph.D. from the University of South Florida. He has been employed in the electric power industry for over 20 years, has done consulting work on power systems, and has conducted a wide variety of power-related training courses worldwide. Dr. Fehr has contributed numerous articles to various trade magazines, and has authored Industrial Power Distribution, published by Pearson Prentice Hall. He is currently a member of the Electrical Engineering faculty at the University of South Florida and is a registered professional engineer.

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Consultants Networks Affinity Group— Projected Meeting Talk and Courses for 2014

The Consultants' Network Affinity Group of the Florida West Coast Section of IEEE has a plan to present the following courses taught by Mr. Kurt Forster of the Pinellas Economic Development Center during the current year 2014. Your input is hereby requested to determine the interest you may have in these courses which when selected will be presented at the normal meetings of the FWCS/CNAG. Kindly send your interest & selection to Hermann Amaya, CNAG Chair at <a href="maintaingaingle-maintaing-indicating-maintaing-indicating-maintaing-indicating-maintaing-indicating-

Starting a Business: Licenses, Permits & Legal Requirements

Learn detailed information on choosing a legal structure, specific state requirements, federal regulations, and local permits that your business may need to <u>get started</u> in Pinellas. If you have not yet started your business, this is the place to start!

Business Plans for New and Existing Businesses

There are lots of different ways to accomplish a business plan from easy to very complex. Whether you're seeking a loan, trying to increase profits, or just want a better way to plan and keep track of your business, we can show you a variety of plan formats to fit your purpose. We'll also share a variety of resources to guide your plan and research.

Marketing Your Business for New & Existing Business

Customers are the key to every successful business. Effective, strategic, marketing is the way to attract the most and best customers to increase revenue. Learn a simple strategic marketing plan that will attract customers and increase revenues without increasing expenses. Discover your unique selling proposition and choose the right strategies to win over the best customers and crush the competition!

Robotic & Automation Society April Meeting

You are invited to the Monthly Meeting of the IEEE Florida West Coast Chapter of the (RAS) Robotics and Automation Society. It is every third Tuesday at 6:30pm at the location below under normal conditions. Special thanks to Hermann Amaya. In April, we have been invited to tour Osceola High School in Pinellas County. Dr. Gary Shepard is requesting a headcount. Please send me an email to Venner20@ieee.org no later than April 4 to provide this information to our host.

Location:

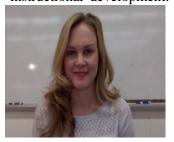
Osceola Fundamental High School 9751 98th Street N Seminole, FL. 33777 Date: April 15, 2014 Time: 6:30pm to 8:30pm

TOPICS: FIRST Robotics Team.

Please join us for an exciting evening of discussions on local robotics and how we can help schools throughout the Florida West Coast.

2014 IEEE Lignell Awards Winners

Dr. Faliero has served in the field of education for 16 years as a teacher, coach, administrator, and director of instructional development. Her teaching engages students in practical thinking and problem-solving skills as



evidenced by the rich discussions witnessed in her classroom. She strives to have students take responsibility for their own learning, modeling the mental processes and study habits it takes to learn what they need to learn to become responsible and informed citizens. She has high expectations for her students and pushes them to be better than they think they can be. She actively seeks professional development to improve both her pedagogy and her content knowledge of current research in the field of biology and biotechnology. Her contribution of her field is evidenced by her participation in professional conferences, her curriculum writing that she participates

in, her mentoring of fellow teachers, and her commitment to life-long learning.

Heather Costa

A classroom with structure, enthusiasm, and tie-in to student interests are a few of the necessities that Heather



credits to her and her students' success. Heather Costa has taught high school sciences for 15 years and presently teaches Chemistry. Though this was not her initial career plan, after graduating from the University of Florida with a degree in microbiology, she followed her mother into education. She has embraced this career choice and continues to educate herself on new ways to deliver lessons and motivate students. She has earned a Master's degree in Curriculum and Instruction and successfully completed her National Board Teaching Certification. She is eager to get students to enjoy science and build confidence in their learning abilities. She truly feels lucky to have a team of Chemistry teachers working with her to achieve these goals. Heather is

honored to be recognized for this award.

Amber Bennett is a Chemistry teacher at Jefferson High School. A 2007 graduate of Florida State University,



she completed her teaching internship with Mrs. Alina Mills and Ms. Heather Costa at Jefferson High School. After teaching Physical Science and Forensics in Raleigh, North Carolina, she returned back to her interning school to join the Chemistry team.

Through hard work and continuing education, Amber has built a learning community within her classroom and with her students that lend to their success in Chemistry. Her personality is infectious and can be seen in the rapport she has with her past and present students.

Amber works many hours tutoring after school and sponsoring the Science Brain Bowl Team. She attends summer institutes to better prepare her advanced placement chemistry students for their college tests.

Amber enjoys working with a team of teachers to design lessons that engage students at every academic level.



EMBS & WIE Join Meeting

Topic: Raspberry Pi Module Introduction

Date: Wednesday May 21st, 6 PM

Location: Largo STAR Center Corner of Bryan Dairy and Belcher

7887 Bryan Dairy Road Largo, FL 33777

Abstract: The Raspberry Pi is a wonderful single board computer that fits in the palm of your hand with over 2 million units delivered. The Raspberry Pi foundation released the Raspberry Pi with the intention of promoting basic computer science education in schools. Due to the affordable price of the boards, between \$25 and \$25, it has become a powerful tool for hobbyists that want to run a home media center, a VPN, do home automation and a lot more. The Raspberry Pi is slowly turning into a dessert of choice for engineers as they turn them into industrial PCs, ethernet monitoring, and industrial control applications.

In this talk we will cover basics of how to configure and install the operating system and how to run a simple program.

Speaker: Isabelle Laureyns is VP of Manufacturing at Fill-Tech Solutions, Inc. in Largo, FL.

Organizer: For more specific information please contact:

Chris Lambrecht e-mail: chris.lambrecht@ieee.org, Phone: 727-458-9061

Valerie Tur Phone: 813-334-2317

Cost is \$2 for IEEE Member and \$4 for Non Members. Food and beverages will be provided. Please sign up at:

Reservations: http://time2meet.com/fwcs-mtt/index.html



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April 2014 Calendar of Events (For more information see P. 1) inside this Signal...

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1 IEEE EXCOM TECO Plaza 5:30pm	2	3	4 Power Systems Harmonics Seminar – 8:30 am – 2:30pm	5
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13	14	15	16	17	18	19
20	21	22	23	24 PES/IAS EXCOM Village Inn - 6am	25	26
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