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**THE
SUNCOAST
SIGNAL**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



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This Month's Meetings

Tuesday, July 2: EXCOM Meeting

Meeting starts at 5:30PM At TECO Plaza

Register online at <http://time2meet.com/fwcs-excom/index.html>

Open to all FWCS Members

Career Transitions & Consulting to be Featured in Free June, July IEEE-USA E-Books

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Xilinx for Signal Processing Applications

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"Lunch & Learn"

The Real Reasons Change Fails!

And what you can do about it

For Managers at all levels and actually everyone else

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Mastering the Art of Giving a Job Reference

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**Career Transitions & Consulting to be Featured in
Free June, July IEEE-USA E-Books**

WASHINGTON (7 June 2013) – IEEE-USA E-Books is offering “The Best of Today’s Engineer: On Career Transitions” to IEEE members for free in June. In July, “The Best of Today’s Engineer: On Consulting – Volume 2” will be offered.

Both are special benefits to IEEE members.

“The Best of Today’s Engineer: On Career Transitions” is a collection of articles from IEEE-USA’s monthly e-zine that can help you handle almost any situation you might face in your career, such as changing projects, employers or career paths.

Articles include, among others, “Handling Downsizing; Conquering Change”; “Kick your Career Up a Notch – Become a Licensed P.E.”; “In My View: The Realities of Age Discrimination”; “Finding a Job in an Unstable Economy: Coping with Fears”; and “Engineer to Entrepreneur: Making the Career – Enhancing Transition.”

“The Best of Today’s Engineer: On Career Transitions” can be downloaded for free to IEEE members at

<http://www.ieeeusa.org/communications/ebooks/files/nv89n203/Best-of-TE-On-Career-Transitions.pdf>. The nonmember price is \$5.99.

JULY FREE E-BOOK

In the introduction to “The Best of Today’s Engineer: On Consulting – Volume 2”, William R. Kassebaum P.E., 2011 Chair of the IEEE-USA Alliance of IEEE Consultants Networks Coordinating Committee, writes that “many engineers are apprehensive about making the transition from a salaried position with predictable weekly or monthly earnings, to a situation where the perception is that income would be uncertain and irregular. ... Almost all experienced consultants were once company employees.”

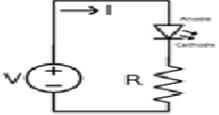
This compilation of articles is a convenient reference tool for those who want to build on and incorporate new ideas into their practice. It addresses topics such as reasons for becoming a consultant; how to become a better networker; and how to incorporate social media into your practice.

This e-book will be available to members in July.

To purchase IEEE members-only products, and to receive the member discount on eligible products, members must log in with their IEEE Web account

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IEEE-USA E-Books seeks authors to write an e-book or a series of e-books on career guidance and development topics. If you have an idea for an e-book that will educate other IEEE members on a particular topic of expertise, email your proposal to IEEE-USA E-Book Chair Gus Gaynor at g.gaynor@ieee.org and to IEEE-USA Publishing Manager Georgia C. Stelluto at g.stelluto@ieee.org.

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Phone: 1 202 530 8363

E-mail: s.richardson@ieee.org

Xilinx for Signal Processing Applications

Date: Wednesday August 28th, 6 PM

Location: Largo STAR Center (Planning Center Room)
Corner of Bryan Dairy and Belcher

Abstract: The role of FPGAs in designs has expanded over the years due to increased performance, lower power, and the availability of both hard and soft IP that has allowed for more integration and faster time to market. This is especially the case in DSP applications where dedicated DSP macros (pre-adders, multipliers, accumulators, etc.) as well as customizable IP functions (DDS, FFT/IFFT, FIR, CIC filters, etc.) provide for greater system integration and higher performance. While in the past FPGAs mainly performed ancillary roles (processor glue logic, interface to data converters, etc.), their capabilities have greatly expanded due to the availability of powerful front-end design tools (SysGen/Matlab, High Level Synthesis, etc.) that allow for a higher level of abstraction as well as a more ubiquitous interface for system designers.

This talk will center on the increased DSP capabilities of the newer Xilinx FPGA families as well as the latest offerings in design tools targeted for signal processing applications. Through the inherent parallelism afforded by FPGAs as well as support for both fixed and floating point algorithms, these devices are no longer just the bridge between the front-end signal chain and the DSP/processor, but are now capable of incorporating almost all of these tasks on-chip. This affords designers greater flexibility as well as highly scalable designs, while allowing for greater size, weight, and power optimization.

Food and beverages will be provided. Please sign up at:

<http://time2meet.com/fwcs-mtt/index.html>

The cost is \$2 for IEEE Member and \$4 for Non Member to offset the cost of the room and food.

Speaker: **Steve Candreva** graduated with a Bachelors of Engineering in Electrical Engineering from Manhattan College, as well as a Masters of Business Administration from University of South Florida. He has ten years of ASIC/FPGA design as well as Systems Engineering experience at Honeywell Space Systems in Clearwater, FL. He is going on ten years as a Field Applications Engineer supporting Xilinx throughout the state of Florida.

Organizer: For more specific information or directions, please contact Chris Lambrecht (e-mail: chris.lambrecht@ieee.org, Ph: (727)458-9061)

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

An IEEE PACE, PE/IA Event



The *Real* Reasons Change Fails!

And what *you* can do about it

For Managers at all levels and actually everyone else.

Speaker: Paul Schnitzler, Ph.D. (E.E.)

Date: Friday, Aug. 9, 2013

Time: 11:30 to 1:30 PM

Cost: \$10 Members, \$20 Non-Members, \$5 IEEE Student Members

Make checks payable to IEEE FWCS and mail a check in advance to IEEE PE/IA Chapter
2593 Forest Run Court, Clearwater, FL 33761-3716

Location: Lakeland Electric Company

Lakeland Training Center, 989 E. Memorial Blvd., Florida 546/Highway 92

Please register at <http://time2meet.com/fwcs-pes3/index.html>

Need to improve product quality, delivery times or profits? Perhaps you want to reduce costs, inventory or waste? Did you know that 70% of the time attempts to accomplish these objectives fail? You can be in the other 30%!

Team members often resist change because it makes them feel uncomfortable; this interferes with their success. As a leader, you want your team to feel challenged and motivated; you want them to perform their best and achieve *your* goals.

There is a wealth of help out there—80,000 hits on Amazon Book; 150,000 new MBAs each year—but, clearly, the failing managers do not use any of this. Managers stop themselves—in a variety of ways—from doing what the experts teach.

Paul will put you on the right track to avoid the major pitfalls. You will learn his innovative, unique, three-point Y E S model for initiating successful change which leads to the Y E S benefits:

You will have a clear urgent objective!

Everyone will enthusiastically support your objective!

Staff will buy-in and accomplish rapid results!

During Paul's interactive presentation, you will get actual tools which you can use. These will get you started to achieve the results you want. You will both understand this approach and experience how to use it so that you can save time, energy and money.

You can be part of the 30 percent who accomplish the results they want!

* * *

Dr. Paul Schnitzler, Ph. D. is a keynote speaker, author, educator, engineer and consultant specializing in Successful Change, Motivation, and Creativity which work together for overall business success.

In more than a dozen situations, Dr. Schnitzler has successfully introduced significant changes defying the usual 70% failure rate. One of these achievements led to the now ubiquitous use of fiber optics for undersea communications. Another was the creation of the first broadcast-quality CCD video camera which won a television Emmy! Each of these had billion dollar benefits to the industries involved. Large and small companies have benefitted from his work.

Besides helping in various areas of technology, he teaches courses in Change, Motivation, and Creativity for University of South Florida. He has presented seminars in change and entrepreneurship in China and Saudi Arabia as well as a talk for TEDx Tampa Bay.

He earned his Ph. D. from the Polytechnic Institute of NYU and has received a number of honors for his work. He can be reached at www.paulschnitzler.com.



- Date:** July 19, 2013
- Time:** Registration: 8:00 A.M. Seminar: 9:00 A.M. - 3:00 P.M.
- Speaker:** Art Salander, Roy Gates
- Location:** Seminole Electric Cooperative, 16313 North Dale Mabry, Tampa, Florida 33618
Parking: Use parking lot in front of building
- Cost:** \$100 Members, \$200 Non-Members, \$20 IEEE Student Members
Make checks payable to IEEE FWCS and mail a check in advance to IEEE PE/IA Chapter
Treasurer: PES/IAS Chapter
2593 Forest Run Court
Clearwater, FL 33761-3716
- PDH Credits:** 4 professional development hours will be awarded. Be sure to provide your name as it appears on your Florida license and your license number to insure proper credit. Florida Provider #0003849 IEEE
- Reservations:** Online at: <http://time2meet.com/fwcs-pes1/index.html>
Space limited to the first 45 registrants!!!
- Questions:** Jim Howard at 863-834-6585 or Jim.Howard@Lakelandelectric.com

Topics

- I. 19th Century Battery History
- II. A study of Phased Controlled SCR charging
- III. Determine Recharge Voltages
- IV. Alarm settings
- V. Enclosure types defined and considerations provided
- VI. Ripple Content on the bus and what the allowable numbers really are.
- VII. Battery Charger Sizing Calculations
- VIII. Practical Application of Modular Battery/charger Enclosures
- IX. Mobile Power Systems
- X. Using Diode Isolation Systems
- XI. Stationary Batteries Defined: Flooded Lead Acid Batteries, Valve Regulated Lead Acid (VRLA) Batteries, Nickel Cadmium Batteries:
- XII. Battery Sizing
- XIII. Installation / Maintenance / Testing / Maximizing your Investment
- XIV. NERC PRC-005, DC System considerations with a review of the pertinent sections in the Supplemental Reference and how they may be implemented.

Speakers:

Art Salander – Graduate Adelphi University/Physics & Engineering, IEEE Senior Member, Art has lectured on many aspects of battery and charger applications and has worked on developing battery load profile and sizing techniques and standards in use today. He is also the current Conference Manager for the IEEE NewNEB Conference and is currently providing application engineering and business development for HindlePower, Inc.

Roy Gates - 25-years' experience with stationary batteries, currently with HindlePower, Inc. Experienced in a variety of electro-chemistries, including alkaline, lithium and traditional lead acid designs, his responsibilities ranged from systems design engineering to installation, testing and long-term maintenance, as well as training and education. A sought after speaker within the IEEE Continuing Education on Demand community, Roy has given numerous papers and presentations on selection, sizing, configuring and operating all types of energy storage devices.



Tampa Bay Times Forum Tour

Date: Tuesday, August 20, 2013

Time: 4pm-5pm - Meet at Lightning Bolts-exterior west side of building at 3:30 sharp

Speakers: Bob Buckhorn & Kim Austin, Forum Staff

Location: 401 Channelside Dr. Tampa, Florida 33602

Cost: Members \$5, Non-Members \$10, IEEE Student Members \$2 (Please pay at the door)

Parking: Free

RSVP: Online at: <http://time2meet.com/fwcs-pes4/index.html> Space limited to the first 15 registrants!!!

Questions: Jeff Basiaga at 813-541-5758 or Jeff.Basiaga@stantec.com

A recent \$35 million renovation was made for a convention in 2012. The renovation includes a rebuilt grand plaza entrance, elimination of 2 lower-level suites in each corner (8 of current 28 suites) leaving views from the concourse area to the playing area, renovation of each suite, elimination of sections 323 and 324 on the terrace level (574 seats) for a bar and stage area that will feature a new digital theatre organ, more concessions areas on the terrace level, an 11,000-sq ft outdoor deck and party area overlooking outside plaza and facing the downtown skyline, new climate controls that improve both the ice surface and spectator comfort, new lighting, all new padded seats, resurfaced and redecorated concourse, combining Icons and Medallions restaurants into one venue, and updated restrooms. Also in 2012, the Tampa Bay Times Forum installed a new video display board. The board is billed as the largest of its kind in North America. Its two larger faces measure 28x50 feet (8.5x15 m), while its two smaller faces are 28x20 feet. Please register and join your chapter in a behind the scenes tour of this facility. Also, please note that we will meet at the Lightning Bolts on exterior west side of the building at 3:30 sharp.



Mastering the Art of Giving a Job Reference

You've certainly heard that part of maintaining the network that you'll depend on when the time comes for you to look for a new job is helping the others in your circle whenever possible. One task—some would say honor—you could be given is vouching for someone's qualifications and/or personal strengths. If you agree to do it, the job hunter has a responsibility to provide all the information you need to give the best recommendation possible, including an up-to-date résumé and the job listing. Then it's up to you to prepare yourself by taking time to jot down an outline of what you want to say. Coming across as though the phone conversation with your protégé or former colleague's would-be boss is the first time you're giving the matter some thought is a poor reflection on you and the candidate. Good rule of thumb: Prepare answers to a few questions that you would ask if you were conducting a reference check. (To read more subscribe to IEEE Job Site Career Alert)

The IEEE Job Site Career Alert is prepared twice a month by the editors of *IEEE Spectrum*. Members who have provided an email address are automatically subscribed to the Alert as a member benefit, however, anyone may [SUBSCRIBE](#) to the Alert.



Florida Transmission 10 Year Plan

- Date:** Friday, August 16, 2013
Time: 11:30 AM (includes Lunch)
Speaker: Vince Ordax, FRCC Director of Planning
- Location:** FRCC, 3000 Bayport Drive, Suite 600, Tampa, FL 33607
- Cost:** \$10 Members, \$20 Non-Members, \$15 IEEE Student Members
 Make checks payable to IEEE FWCS and mail a check in advance to IEEE PE/IA Chapter
 2593 Forest Run Court, Clearwater, FL 33761-3716
- Parking:** In the North Side of Parking Garage across from Hyatt Hotel and the Bayport Office Building
RSVP: Online at: <http://time2meet.com/fwcs-pes2/index.html>
 Space limited to the first 45 registrants!!!
- Questions:** Donna Howard at 813-207-79656 or Dhoward@frcc.com

Transmission in the State of Florida (FRCC Region) is the key to getting energy to where it needs to be to keep consumers supplied. This meeting will examine the impacts of; 1) Any plans for future 500kv, 230kV or other high voltage transmission line in order to secure an adequate energy supply for our area; 2) the importance of the 500kV tie lines to Georgia (as well as other tie lines to the north).

This meeting will discuss the current 10 year plan for the area's high voltage transmission and we will share with you the prospects for Florida as we move through the next 10 years. Don't miss this up-to-date analysis of the regions transmission plans and needs for 10 years into the future.

Advertising Section

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July 2013 Calendar of Events (For more information see P. 1) *inside this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	1	2 <i>IEEE EXCOM TECO Plaza 5:30pm</i>	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19 <i>Utility Battery Seminar - 8:30am Seminole Electric</i>	20
21	22	23	24	25 <i>PES/IAS EXCOM Village Inn 6am</i>	26	27
28	29	30	31	1	2	3