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THE SUNCOAST SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

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Tuesday, June 2: EXCOM Meeting, 5:30PM at TECO Plaza
Register online at <http://time2meet.com/fwcs-excom/index.html>

Open to all FWCS Members

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Tour Matheson TriGas Air Separation Systems

Date: Friday, July 24, 2015

Time: Site Visit: 11:00am-1:00pm

Host: Frank Prystash, ASU Plant Manager

Location: 2500 North Combee Road Lakeland Florida

Cost: \$10.00 Members; \$20 Non-Members;
Student IEEE Members free with Student ID

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

Space limited to the first 15 registrants!!!

Questions: Serge Beuzile@863-834-6511 or Serge.Beuzile@ieee.org

Air separation is the most common process used to extract one or all of the main constituents of atmospheric air. The three main components are Nitrogen (78.1%), Oxygen (20.9%) and Argon (.9%). The remaining gases in the air are in trace amounts and normally not recovered. In very large air separation units (ASU) Neon, Xenon and Krypton are recovered in small amounts.

Cryogenic air separation utilizes the differing condensing/boiling points of the components of air to enable separation by distillation at cryogenic temperatures. At atmospheric pressure the main components of air have the following condensing/boiling points:

- Nitrogen -320F
- Oxygen -297F
- Argon -308F

Since air is a simple mixture, liquefying and distilling air provides a process to successfully separate the Nitrogen, Oxygen, and Argon. All ASU's use this process.

Help Your IEEE Florida West Coast Section!

We are looking for a volunteer who wants to invest just a few hours a month to be the new Signal Editor. Basic word processing knowledge and willingness to Help!

Contact serge.beuzile@ieee.org or dhoward@frcc.com

Please participate in your Section success!

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IEEE-USA’s Free E-Book to Members “Doing Innovation”

IEEE-USA E-books will offer “Doing Innovation -- Book 4: What It Takes To Be an Innovator” free to IEEE members.

Written by Gus Gaynor, the book describes the requirements innovators must have:

- * “Skills” -- communication, leadership & facility in project management being the three major ones
- * “Attitude” -- agile, accurate integrity, proactive & reliable, among others, but no innovator will possess them all
- * “Knowledge base” -- aids the innovator in meeting objectives & includes primary discipline of interest, marketing, decision making & effectiveness
- * “Challenges” -- Gaynor calls resistance to change, rejection of new thinking, focusing on system issues & rigid organization structures “subtle innovation killers”

“Doing Innovation happens when freedom is allowed,” Gaynor says. “With discipline, a formal but not rigid process exists for introducing new products and services, and when innovators meet the skills, characteristics, attitudes and knowledge to satisfy the requirements for potential innovation.”

IEEE-USA’s “Doing Innovation” e-book series also includes “Perspective on Innovation,” “Develop a Workable Innovation Process” and “Fostering an Innovative Culture.”

From 1 May to 15 June, you can get “Doing Innovation -- Book 4: What It Takes To Be an Innovator” free to download at <http://shop.ieeeusa.org/usashop/product/careers/73817>. Log in with your IEEE Web account, add the book to your cart and use promo code MAYFREE at checkout.

June Free E-Book

In June, IEEE-USA E-books will offer “Would Have Liked to Know That! -- Book 1: Selling Yourself at Work” -- by Maura Schreier-Fleming.

“Selling Yourself at Work” focuses on strategies for engineers to build a successful career by implementing some of the successful strategies sales professionals use. The latter are masters of communication and work effectively with others to get the results they want. , and what characteristics and attitudes do they display?



IEEE Computer Society presents: Security Presentation from Cisco

TECO Hall, 702 Franklin St Tampa, Florida – June 30, 2015 at 6:30 p.m.

Every day, new news of cyber intrusions, exploits, and attacks comes to light, from Hackers to Hacktivists. The most sensitive sectors, from Energy to Defense to Finance, are often the targets. Threat actors have engaged in brazen activity, from computer network exploitation (CNE) to computer network attack (CNA). At the end of the day, however, the best deterrent, irrespective of the threat or threat actors, is the ability to recover and bounce back quickly. Understanding and deconstructing the high end threats in their many permutations and combinations is daunting but resources and capabilities to address these challenges are available.

Join us as Cisco provides an overview of the state of cyber security.



IEEE Computer Society Conference - Local Computer Networks (LCN)

Sheraton Sand Key Resort -Clearwater Beach, FL - October 26-29, 2015

The IEEE LCN conference is the premier conference on theoretical and practical aspects of computer networking. LCN is highly interactive, enabling an effective interchange of results and ideas among researchers, users, and product developers. Major developments from high-speed networks to the global Internet to specialized sensor networks have been reported at past LCNs.

Conference registration will be available via the IEEE online conference registration Web site during the summer of 2015.

Please visit <http://www.ieeelcn.org> for more information about the 40th Anniversary of this conference



Congratulations to the FWCS's New Senior Member Sanjukta Bhanja

Sanjukta was recently elected to the member grade of Senior Member at the last A&A Review Panel meeting, which was held on 25 April in Taipei, Taiwan. Congratulations, Sanjukta!

Senior Membership Criteria

Senior member is the highest grade for which IEEE members can apply.

IEEE members can self-nominate, or be nominated, for Senior member grade. □ To be eligible for application or nomination, candidates must:

- be engineers, scientists, educators, technical executives, or originators in IEEE-designated fields;
- have experience reflecting professional maturity;
- have been in professional practice for at least ten years (with some credit for certain degrees);
- show significant performance over a period of at least five of their years in professional practice.



Tour of Polk Power IGCC Generation Station

Date: June 26, 2015

Time: 11:00 a.m. – 1:00 p.m.

Location: Polk Power Station, 9995 State Rd. 37, S, Mulberry, FL 33860

Cost: \$10.00 Members; \$20 Non-Members; Student IEEE Members free with Student ID

RSVP: Online at: <http://time2meet.com/fwcs-pes3/index.html>

Your local IEEE PES IAS society is hosting a tour of the Polk Power Station Mulberry, Florida. Polk Power Station Unit 1 is a state-of-the-art integrated coal gasification combined-cycle (IGCC) power plant. The 260-megawatt IGCC facility began commercial operation in the fall of 1996. Currently construction is underway on Unit 2 which will consist of 4 combustion turbine generators fitted with heat recovery steam generators (HRSG) that will feed one Steam Turbine unit.

Polk Power Station is located on State Road 37, just north of the SR674 & SR37 intersection.



Polk Power Station, IGCC facility, Polk county, FL

IMPORTANT – Please sign up on the website listed above so the station will have advanced notice of members attending tour. When arriving at site, please check in with security at the main gate on Hwy 37. Please have Government issued photo identification such as a driver’s license with you for entry to facility. Also, attendees must wear long pants (no shorts, dresses or skirts) and must wear closed toed shoes (no open sandals, flip-flops, or high heeled shoes). You will be provided PPE such as hard hat, safety glasses and ear plugs at the facility (if you have your own hard hat and safety glasses, you are welcome to bring with you.)



What is the IEEE-USA MGM Program, and how does it work?

The IEEE USA MGM Program is a special offer for US members who refer a colleague to IEEE. If they join before 28-February, they'll get a \$25 discount off their first year membership. Between 1 March and 15 August, referrals pay just half price. In return, you'll get a gift.

Your referral will receive an e-mail inviting them to join at a \$25 discount off their first-year membership dues (16 August - 28 February) or join at the half-year rate (1 March - 15 August).

IEEE-USA gift items you can choose from include:

- Cooler backpack
- Computer backpack
- Portable solar battery charger
- Tablet case
- Portable speaker
- Parker pen and mechanical pencil set
- Parker ballpoint pen
- Travel coffee mug and tumbler set
- Golf balls
- Baseball hat
- Golf umbrella
- Travel umbrella

You will also be eligible to receive incentives through the IEEE Member-Get-a-Member (MGM) program.

Here's how it works:

- Refer your colleague via the online form (<http://ieee.fluidsurveys.com/s/ieee-usa/>)
- Your referral will receive an e-mail inviting them to join at a \$25 discount off their first-year membership dues
- Your referral will provide your IEEE member number as they join
- Within 3-4 weeks after your referral joins, you will receive an e-mail confirming your recruiting success, including a link which allows you to select your IEEE-USA merchandise item
- You will receive a separate e-mail for each new member you recruit

SP/Comm presents:

Date: Thursday June 18th, 6:30 PM

Location: Largo STAR Center Corner of Bryan Dairy and Belcher 7887 Bryan Dairy Road Largo, FL 33777

Speaker: Matt Davis – Samtec's technical resource for the south east, with 17 years of sales, engineering and electronics packaging design experience.

Organizer: For more specific information please contact: Chris Lambrecht. E-mail: chris.lambrecht@ieee.org, Phone: 727-458-9061

Cost is \$2 for Students and Life Members, \$4 for IEEE Members, and \$6 for Non Members. Food and beverages will be provided.

October 26 – 28

The Premier International Conference for Military Communications






MILCOM 2015 celebrates the 34th anniversary of the premier international conference for military communications. **"Leveraging Technology – The Joint Imperative"** gathers the leading minds of government, military, industry and academia in an interactive forum to further explore and define the benefits that joint-level collaboration bring to current and future communication challenges. The annual conference will take place at the Tampa Convention Center. Leaders from around the world will address the critical role communications plays in military readiness and operations. MILCOM offers industry the opportunity to discuss communications technologies and services with decision makers from all branches of the armed forces, the Department of Defense, federal agencies and multinational forces.

In the MILCOM tradition, the conference will feature an outstanding series of technical presentations, discussions and tutorials, as well as nearly 30,000 square feet of industry exhibits all under one roof. It will include more than 300 unclassified and restricted technical presentations, tutorials and panel discussions led by experts in defense communications. Topics will include the spectrum of command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) technologies and capabilities that address 21st century communications challenges related to national defense, homeland security, disaster response and interoperability. Continuing education credits will be available to all attendees.

For more information please visit:

<http://events.jspargo.com/milcom15/public/enter.aspx>

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June 2015 Calendar of Events (For more information see P. 1) *inside this Signal...*

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1	2 <i>EXCOM Meeting, 5:30 TECO Plaza</i>	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18 <i>SP/Comm Presents</i>	19	20
21	22	23	24	25 <i>PES/IAS EXCOM Village Inn - 6am</i>	26 <i>Tour of Polk Power Station 11:00 am - 1:00 pm Mulberry, FL</i>	27
28	29	30 <i>Security Presentation from Cisco</i>	1	2	3	4