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# THE SUNCOAST SIGNAL

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

<http://ewh.ieee.org/r3/floridawc>

Volume 44 - No. 2

February 2001

## February Joint Section & PES/IAS Meeting

### Engineers Week Luncheon

*Don't Miss This Special Event*

## Should Florida Expect Rolling Blackouts Similar to California?

**DATE/TIME:** Thursday, February 22, 2001, 12 Noon (Lunch will be provided)

**LOCATION:** Tampa Electric Company - TECO Hall  
702 N. Franklin St. (Downtown Tampa)

**RESERVATIONS  
REQUIRED:** Contact Paul Leal at 813-630-6334 (*Bring a guest; non-members welcome!*)  
(Seating is limited to 40, please call early)

**SPEAKER:** Mr. John Boucher,  
Vice President, Regional Transmission Organizations Business Area

**LUNCH COST:** \$10 Members, \$5 IEEE Students, \$20 Non-Members



Mr. Boucher will be providing us an update on the Regional Transmission Organizations (RTO's) across the nation and the effect they are having on our electric system reliability. This will include information on recent Federal Energy Regulatory Commission (FERC) filing pertaining to these proposed RTO's. Mr. Boucher will also be discussing the situation in California and its impacts on the industry, as well as the consumers. He will be providing insight into some of the key questions on the RTO's - Will our lights stay on? Will the costs for electricity go up? What impacts will this have on the residential customer? What impact to the industrial and commercial customers? Please plan to join us for the very informative meeting. (*Note: Seating is limited, make your reservations early!*)

#### Speaker:

Mr. John Boucher has 32 years of experience in the electric utility industry. He has held executive positions with computer applications and systems suppliers and has had responsibility for division management, project management, engineering, and marketing. His current duties include responsibility for maintaining KEMA Consulting's leadership in consulting on the formation and operation of RTOs in North America. Manages a center of competence for support of world-wide consulting for RTO-like entities and for strategic planning, staffing, training, and marketing support. He interacts with senior managers of ISOs/RTOs where KEMA is presently active, such as New York ISO, MISO, ERCOT, ISO-NE, and IMO, to assure that KEMA Consulting is meeting all the ISOs'/RTOs' filing, process, operations, and planning needs. Additionally, he supports marketing in achieving additional customers as new RTOs are being formed and is presently Project Manager for the formation of RTO West.

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## Chair's Comment

by Quang Tang

We have a busy month in February. First is the celebration of National Engineers Week 2001. All engineers celebrate this national recognized week during the week of February 18-24. At the local level, Florida West Coast Section of IEEE along with Association for Facility Engineers (AFE), American Society of Mechanical Engineers (ASME), and Society of Logistic Engineers (SOLE) organized an annual Engineers Week banquet for Saturday, February 17, 2001, at Ramada Airport Inn in Tampa. These Societies have agreed to recognize Teachers of the Year from Pinellas, Hillsborough, and Pasco Counties at the banquet. These Societies will also recognize their Societies' Engineer of the Year, and Engineering Students of the Year. In addition we will have a fun evening of good dining, and entertainment from local magician and caricaturist. Please see page 5 in this issue for more banquet details.

As I am writing this article, California is experiencing rolling blackouts. The Section along with Power Engineering Society invite Mr. John Boucher, Vice President of Regional Transmission Organizations Business Area, to present us with an update on the Regional Transmission Organizations (RTO's) across the nation and the effect they are having on our electric system reliability. Seats are limited so make your reservation now.

Also in February is our first teacher in-service series program being presented to Hillsborough County School District. Mr. John Luce will present the program to teachers and demonstrate how to apply engineering principles to build working models using common household items. Please contact Mr. Doug Gorham at [d.g.gorham@ieee.org](mailto:d.g.gorham@ieee.org) if you like to help.

MTT/AP/ED Chapter will bring in Dr. Michael Heutmaker of Lucent Technologies Bell Laboratories, Princeton, New Jersey in February to present Digital Modulation, RF Test, and Wireless Communications topics.

I hope to see all of you at the Engineers Week Banquet on Saturday the 17<sup>th</sup>.

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## Receiving Your Electronics Signal

by John Conrad

Each month the Electronics version of the Suncoast Signal will be sent to everyone on the Florida West Coast Section Email List.

If you wish to be added to the FWCS Email List just send an email to [fwcs@weiweb.com](mailto:fwcs@weiweb.com) with "SUBSCRIBE" as the subject. If you wish to be removed from the list, just send an email to [fwcs@weiweb.com](mailto:fwcs@weiweb.com) with "UNSUBSCRIBE" as the subject.

The FWCS Email List will NOT be updated from the Piscataway database. There is one more important point. The address [fwcs@weiweb.com](mailto:fwcs@weiweb.com) is a semi-automatic software mailing list. Do not send any comments or compliments, as they will not be read by a human being.

# Wireless and Microwave Technology 2001

## An Industry/Government/Education Forum

**DATE:** Saturday, March 24, 2001

**TIME:** Registration begins at 8:00 am  
Presentations and Panel Sessions from 8:30 am to 4:00 pm  
Social Hour from 5:00 pm on

**LOCATION:** Embassy Suites, Busch Gardens  
3705 Spectrum Blvd., Tampa, FL 33612  
Phone (813) 977-7066

**ABSTRACT** - The Wireless and Microwave (WAMI) Program at the University of South Florida invites you to attend this third annual event. The interactive forum will provide an opportunity for the exchange of information on the status and directions of wireless/microwave technology, and the educational and research challenges now being addressed. Activities will include 6-8 technical presentations by invited speakers and two panel sessions. Please check for an updated speaker and topic list at <http://ee.eng.usf.edu/WAMI>, where you will also find information on the 1999 and 2000 events. Lunch and refreshments will be provided during the day, along with a social hour and tour of USF's laboratories in the late afternoon.

The Wireless and Microwave Group in the Electrical Engineering Department at the University of South Florida is organizing this event. Sponsors include the USF College of Engineering and the IEEE Florida West Coast MTT/AP/ED Chapter.

**RESERVATIONS** - Please make reservations before March 16, 2001. We welcome late registration but appreciate a timely response in order to accommodate our planning.

**REGISTRATION FEES:** IEEE Student Member: \$0  
IEEE Member: \$20  
Non-IEEE Member: \$30  
(Students who are not IEEE members may register for \$20 and apply this toward the IEEE Student Member Application fee.)

**RSVP & send payment to:** **Becky Brenner**  
USF Dept. of Electrical Engineering  
4202 E. Fowler Ave., ENB118  
Tampa, FL 33620  
Voice: (813) 974-2369 Fax: (813) 974-5250  
Email: [brenner@eng.usf.edu](mailto:brenner@eng.usf.edu)  
Please make checks payable to IEEE-FWCS or pay on-site.

### DIRECTIONS

- ◆ Take I-275 to the Fowler Avenue exit, approximately 8 miles north of the I-4 interchange.
- ◆ Take Fowler Avenue east approximately 2 miles to Spectrum Blvd.  
The Embassy Suites is on the north side of Fowler Avenue, immediately in front of the University of South Florida.

# MTT/AP/ED February Meeting

## "Digital Modulation, RF Test, and Wireless Communications"

**WHEN:** Tuesday, February 13, 2001 6:00 pm

**SPEAKER:** Dr. Michael Heutmaker, Lucent Technologies Bell Laboratories, Princeton, NJ

### ABSTRACT:

Second and third-generation cellular systems utilize digitally-modulated carrier signals instead of analog frequency modulation. The advent of digitally modulated signals has introduced a new class of test and measurement problems because the accuracy of the modulation is an important parameter. Until recently, RF measurements such as frequency response, group delay, gain compression, and intermodulation (all performed using a sinusoidal stimulus) were sufficient to design and test a circuit or system. How do these sinusoidal tests relate to modulation accuracy measurements such as rho (the waveform quality factor, defined for IS-95 CDMA), EVM (error vector magnitude, defined for IS-54 TDMA and 3GPP W-CDMA), or rms phase error (defined for GSM)? This talk will explain fundamentals of digital modulation, give background on some RF test and measurement issues, and show how samples of the modulation envelope may be processed to analyze the effects of noise, linear distortion and nonlinear distortion.

### BIOGRAPHY:

Michael Heutmaker is a Distinguished Member of Technical Staff at Lucent Technologies Bell Laboratories in Princeton NJ. He received the BS degree in Physics in 1980 from Washington University (St. Louis, MO) and the PhD in Physics from the University of Pennsylvania (Phila, PA) in 1986. He joined AT&T Bell Laboratories (which later became Lucent) in 1986, and has worked in wireless design and test since 1990. Since 1994 he has specialized in test and measurement issues for digitally modulated signals in wireless communication circuits and systems. He holds six patents and has published approximately 15 journal and conference papers. Mike is General Chair of the 2001 IEEE Radio and Wireless Conference (RAWCON2001), and has served as General Chair or Technical Program Chair for RAWCON since 1997.

**LOCATION:** Raytheon Systems Company St. Petersburg, 1501 72<sup>nd</sup> Street North, St. Petersburg

**Gill Robb Conference Room**

**PLEASE RSVP:** Leave name & country of citizenship with Shawn O'Brien at (727) 302-3493.  
E-mail: [skoa@eci.esys.com](mailto:skoa@eci.esys.com) *Bring a guest; non-members welcome!*

**DIRECTIONS:** From Tampa, take I-75 South to I-275 south across Tampa Bay to Exit 12 (22nd Ave N.). From Sarasota, take I-75 North to I-275 north over the Sunshine Skyway Bridge to Exit 12 (22nd Ave N.). Turn west on 22nd Ave. past Tyrone Mall to 72nd Street N. Turn left at the traffic light to the Engineering building. Park in the lot farthest south of complex. The meeting will be held in the Gill Robb Wilson Conference Room on 2<sup>nd</sup> floor.

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# CELEBRATE ENGINEERING 2001 BANQUET



**Date/Time:** Saturday, February 17, 2001  
6:00PM Social, 7:30PM Dinner, 8:45PM Program

**Location:** Ramada Airport Inn  
5303 West Kennedy Blvd., Tampa, FL 33609  
(813) 289-1950

**Speakers:** Dr. Win Phillips of University of Florida  
Topic: "Future Demands on Engineers"

Mr. Michael Labonge of Walt Disney World  
Topic: "Imagineering and Innovation"

**Entertainment:** A local caricaturist – Art Mayner  
Magical Entertainer - "Mark the Balloon Guy"

**Door Prize:** Given through out the evening

**Cost:** \$20.00 per person

Each February, National Engineers Week unites engineers and the public in a celebration of innovation and technology, National Engineers Week increases public awareness of engineering's contributions to our quality of life.

The Florida West Coast Engineering Societies are pleased to announce the annual Engineers Week Banquet. This year, the banquet will be held on Saturday, February 17, 2001, at the Ramada Airport Inn in Tampa. This event brings engineers of various disciplines together to share an evening of fellowship, fine dining, entertainment, and recognition of individual achievement. Local engineering societies will bestow student Engineer of the Year Awards in their respective disciplines. Each society's Engineer of the Year Award will be presented. Teacher of the Year from Pinellas, Hillsborough, and Pasco Counties will also be presented. This event will be moderated and entertained by a local magician "Mark the Balloon Guy". Dr. Win Phillips from University of Florida will provide a presentation on "Future Demands on Engineers". Mr. Michael Labonge from Walt Disney World will present "Imagineering and Innovation". Participating Societies are Association for Facility Engineers (AFE), American Society of Mechanical Engineers (ASME), Institute of Electrical and Electronics Engineers (IEEE), and Society of Logistic Engineers (SOLE).

Tickets are \$20.00 per person, and must be purchased in advance. Eight seat tables are available for corporate reservations. Please use the mail-in reservation form below, or call Quang Tang at (813) 739-1222 or email [q.tang@ieee.org](mailto:q.tang@ieee.org) for more information.

<b>Return this Reservation Form to Quang Tang, P.O. Box 272000, Tampa, FL 33688-2000 CELEBRATE ENGINEERING 2001 Banquet – Saturday, February 17, 2000</b>			
Name		Email	
Address			
City		State	Zip Code
Work Phone (     )		Home Phone (     )	
No. Tickets @ \$20 each		Total Amount Enclosed \$ (Make check payable to IEEE-FWCS)	
Dinner Choice	Vegetarian	Prime Rib	Grouper Provencale

# Professional Planning Day – February 19<sup>th</sup>, 2001

## What is Engineering?

College of Engineering at the University of South Florida in collaboration with the School District of Hillsborough County Presents Professional Planning Day – What is Engineering?

8:00 a.m. – 8:30 a.m.	Registration
8:30 a.m. – 10:00 a.m.	What is Engineering? Engineering, Math, Science, & Technology Educational Requirements Professional Certification Profile of a Successful Engineering Student The Need for Engineers
10:00 a.m. - 11:00 a.m.	College of Engineering Lab Tours
11:00a.m. - 12:00 noon	Teaching Engineering
12:00 noon - 1:30 p.m.	Building Working Models with Household Items
1:30 p.m.	Wrap Up Certification Completion & Evaluation

Located in the USF Center for Urban Transportation, CUTR 102

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## Electrical Engineer

### Power Production Division

Associated Electric Cooperative, Inc. (AECI) headquartered in Springfield, Mo. is seeking top-notch technical talent at a time when the electric utility industry has never been more exciting.

Associated Electric Cooperative Inc. is owned by and provides wholesale power to six regional and 51 local electric cooperative systems in Missouri, northeast Oklahoma and southeast Iowa which serve over 750,000 homes and businesses, representing 1.95 million individual consumers. AECI's mission is to provide an economical and reliable power supply and support services to its members with the vision of being the nation's lowest-cost wholesale power supplier.

We are currently seeking an exceptional individual to fill an Electrical Engineer position in the Power Production Division. This position will be responsible for project management engineering work involving major generating resource additions and plant performance improvement.

Qualified candidates must have a Bachelor of Science degree in electrical engineering or equivalent experience. Five or more years of utility experience is preferred. Travel to AECI's plant sites located in Missouri and Oklahoma to coordinate projects and interface with plant staff will be required. Good verbal and written communication skills are essential.

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For confidential consideration, forward your resume to:

Kristina Galbraith  
Associated Electric Cooperative, Inc.  
2814 South Golden, P.O. Box 754  
Springfield, Missouri 65801

Telephone: (417) 881-1204  
Fax: (417) 885-9252  
E-mail: [kgalbraith@aeci.org](mailto:kgalbraith@aeci.org)

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# Brain Teaser Challenge Column

by Butch Shadwell

## January BTC Solution

Last month's BTC had a very thinly veiled comment about the recent general election. The object was to measure the depth of non-uniformities on the surface of punch card ballots. The method referred to was optical interferometry. This is the process of counting fringes, or the times when the reflected light beam is 180 degrees out of phase with the reference beam. Each passing fringe corresponds to the reflected beams travel distance changing by one half the wavelength of the light being used. Of course if one uses a single beam reflected normal to the surface, one doesn't know if the non-uniformity is a dimple or a pimple. Think about it. See if you can figure out a way to make this work.

I only had two correct respondents to this one. I guess optical physics isn't as popular as I thought.

## February BTC


By the time you read this you will be well on your way to recovery from what I'm sure was a memorable New Years celebration. It is somewhat ironic that during these celebrations, some of the most remarkable events are the hardest to remember due to the state of inebriation at the time. Unfortunately, because I have to get to work, I am re-printing a BTC from March of 1996. Enjoy.

The other day I had a dream about Beevis and Butthead. (Of course you know that in the dream state one can not be certain of correctly spelling characters names.) Anyway, Beevis was arguing with Butthead about whether or not he could burn down the school by short circuiting the power supply on Mrs. Freenbean's electric toothbrush. Her strict attention to oral hygiene was a constant source of bewilderment to the two young delinquents and therefore also deserved their disdain.

If the two had examined the small black cube that plugged into the wall, more carefully, they might have noticed the Underwriters Laboratory and CSA logos imprinted there upon. These agencies had already attempted this conflagration experiment and marked this module to indicate their failure. If anyone of you can explain to Beevis why these small power supply's have intrinsic fire protection you will have earned the Butthead award this month.

Questions or comments to the Brain Teaser Challenge, please contact Butch Shadwell at 904-223-4465 (v), 904-223-4510 (fax), [b.shadwell@ieee.org](mailto:b.shadwell@ieee.org) (email), 3308 Queen Palm Dr., Jacksonville, FL 32250-2328. <http://www.se.mediaone.net/~butchs/>

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## February 2001 Calendar of Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6 <i>EXCOM Meeting TECO Data Center 6:00 PM Guests Welcome!</i>	7	8	9 <i>Material Due For Next Month's SIGNAL</i>	10
11	12	13 <i>MTT/AP/ED Meeting at Raytheon 6:00 PM</i>	14	15	16	17 <i>Celebrate Engineering 2001 Banquet at Ramada Inn 6:00 PM</i>
18 <i>National Engineers Week Feb. 18-24, 2001</i>	19 <i>Teacher In-Service Program at USF 8:00 AM</i>	20	21	22 <i>Joint Section and PES/IAS Meeting at TECO Hall 12:00 Noon</i>	23	24
25	26	27 <i>Hillsborough Regional Science &amp; Engineering Fair at USF 12:00 Noon</i>	28			

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