Meeting Announcements

Unless otherwise stated, non-IEEE members are welcome to attend the meetings listed here. Members are encouraged to invite and bring guests to these events.

Networking Meeting and Member's Presentation

Sponsor: Consultants' Network
Program: The IEEE Orlando Consultants' Network is inviting each and every one of its members to present a briefing on his consulting practice. The following member has been invited to present an overview of his consulting background and services at this meeting.
Speaker: Mr. Jorge Medina of Medina Software, Inc., (MSI) is an specialist in the areas of Software Design (Assembler, C, C++, Visual Basic), Database Design (FileMaker Pro, FoxPro for Windows and Macintosh), Embedded Firmware Design (8/16/32-bit microprocessors), Wireless Communication Systems (development, marketing and distribution), and Technical Software Localization (English -> Spanish) for commercial, industrial and military applications. Mr. Medina is also an Apple Computer software developer/Distributor VAR since 1985. Mr. Medina can be reached at (407) 260-1676, fax: (407) 260-1636, E-mail: medina@parkave.net
Date: Tuesday, September 9, 1997
Time: 6:00 - 7:30 PM
Place: Orange County Library, 3rd Floor, Patio Room, Orlando
Reservations: Jorge Medina (407) 260-1676 or email: j.medina@ieee.org

Technical Tour of Dynamic Voltage Restorer

Sponsor: PE/IA/PEL
Details: The Westinghouse Dynamic Voltage Restorer (DVR) is a medium voltage plant or feeder-wide solution for correcting voltage sags and swells that can cause process interruptions to industrial electric power customers. The installation at FPC's Eonockatchee Substation is part of FPC's new power quality program. The DVR technology is expected to enable FPC to provide premium power offerings to industrial and commercial customers.
Speaker: Paul McCormick of Florida Power Corporation
Date: Tuesday, September 16, 1997
Time: 6:30 - 7:30 PM
Place: Econockatchee Substation, south of University Boulevard 1/2 mile west of the East-West Expressway.
NOTE: If you have a hard hat, please bring it with you.
Contact: Ken White (407) 419-3525 or e-mail: whitekd@bv.com

Technical Tour of the Orlando International Airport Control Tower/Radar Systems

Sponsor: PE/IA/PEL
Details: Tour will include TRACON, CAP, and Radar Equipment Room
Speaker: Marvin Dalton, Assistant Coordinator for Radar
Date: Tuesday, October 21, 1997
Time: 6:00 - 7:30 PM
Place: Airport Control Tower near Terminal
Directions: Arrive at OIA and proceed to "A" Terminal Short Term Parking. Take elevator to Tunnel. Take Tunnel to Terminal using escalator to "Rental Car Counter". Exit straight out doors into Parking area and turn right toward Control Tower.
Contact: Bob Gray at (407) 281-3269.

Congratulations PE/IA/PEL

The Orlando PE/IA/PEL Chapter was awarded the IEEE Power Engineering Society's Outstanding Chapter Award for 1996. The award was presented to Chapter Chairman Gary Engmann at the Summer Power Meeting in Berlin, Germany, in July. This award is a global competition for the chapter that has the best programs in place for the development of its members.
IEEE-USA ESTABLISHES ENTRY-LEVEL JOB LISTING SERVICE

IEEE-USA has unveiled a new Entry Level Job Listing Service as the newest addition to its Web-based career and employment service for nearly 20,000 IEEE U.S. Student Members. IEEE-USA’s Entry Level Employment Assistance home page logged almost 5,000 visits in May 1997 alone.

Previously, entry-level positions were included on IEEE-USA's award-winning National Job Listing Service, but due to demand for new graduates, a file was added specifically for entry-level listings. In addition to the job postings, this service also includes a page of links to companies that are actively recruiting new and recent graduates. It will allow employers and placement firms to list either specific entry-level jobs on an ASCII format page or include their organizations with a brief summary and a hot link to their Web sites.

"IEEE-USA’s job-posting service differs from others in that it taps into a pool of more than 310,000 members of the world’s largest technical professional society," states Richard L. Riddle, IEEE-USA Employment Assistance Committee Chair. Information about how to access the Web service is routinely publicized to IEEE members through the society’s numerous technical and professional publications.

The Entry-Level Service can be accessed at <www.ieee.org/usab/EMPLOYMENT/info.ieeusa.jobs.entry.txt>. For a complete list of IEEE-USA’s employment efforts and a link to the Entry Level Employment Assistance home page, check out <www.ieee.org/jobs.html>.

Employers interested in placing a link on this page or posting an entry-level position should contact William Anderson at 202-785-0017, ext. 330; 202-785-0835 (fax); or <w.anderson@ieee.org> (e-mail).

IEEE U.S. Activities (IEEE-USA) promotes the career and technology policy interests of nearly 220,000 U.S. members of The Institute of Electrical and Electronics Engineers Inc.

IEEE UNITED STATES ACTIVITIES
1828 L Street, N.W., Suite 1202
Washington, D.C. 20036-5104
Tel: 202-785-0017
Fax: 202-785-0835
NewsLine: 202-785-2180

NATIONAL ENGINEERS WEEK EXHIBIT REQUESTS PHOTOS

In concert with National Engineers Week 1998, scheduled for Feb. 22-28, the National Building Museum in Washington will present a major new exhibit entitled, "Breaking Through: The Creative Engineer." The Institute, through IEEE-USA, is sponsoring the exhibit together with more than 50 other organizations.

To convey the topic of creativity in engineering, the first display will be a wall of photographs of actual engineers. Some will be historical figures or engineers featured elsewhere in the exhibit; the majority, however, will be ordinary engineers at work. interspersed with their photos will be their quotations on creativity in engineering.

Robert Friedel, former director of the IEEE Center for the History of Electrical Engineering and curator of the new exhibit, is inviting engineers to submit candid photographs of themselves or others in representative work environments -- e.g., in the office, in the lab, or at the computer. The submissions should include the subject(s)’ quotable thoughts on creativity in engineering.

Submissions should be sent by Sept. 30, 1997, to "Breaking Through," National Building Museum, 401 F Street, N.W., Washington, DC 20001. Please include the following items: black-and-white or color snapshot(s); identification of person/people and activities, place and approximate date of photos; thoughts on creativity; your name, address and telephone number; signed statement giving permission for the National Building Museum to use the photos and quotations in the exhibit; and self-addressed, stamped envelope, if you wish photos to be returned.

For more information on National Engineers Week or for a 1998 planning kit, contact IEEE-USA’s Chris Currie at 202-785-0017, ext. 342, or c.currie@ieee.org.
IEEE-USA CAREERS CONFERENCE
ISSUES CALL FOR PAPERS

IEEE-USA is seeking success stories from engineers and their organizations for its 1998 Careers Conference, "Engineering Careers into the 21st Century: Maximizing Individual and Organizational Growth." The only national conference devoted entirely to engineering careers will be held April 30-May 1, in Phoenix.

In a call for papers, IEEE-USA is searching for new strategies for realizing organizational success through career development. Prospective presenters with current research, experience or expert opinion on ways to promote greater capacities for engineers to manage their careers are invited to submit proposals and 500-word abstracts for consideration.

Papers are invited on any aspect of these topics:
• Retention and development of engineers in a tight labor market;
• New designs for engineering careers and the development and maintenance of engineering careers;
• Partnerships among engineers and employers, universities or associations that focus on developing engineers for successful careers;
• Case studies and/or case histories of successful interventions or activities that provide engineers with career development or new career-management abilities; and
• Benchmark practices for developing engineers to succeed in new models of work.


This is the tenth biennial Careers Conference sponsored by IEEE-USA, which promotes the professional careers and technology-policy interests of the nearly 220,000 U.S. members of The Institute of Electrical and Electronics Engineers Inc., the world’s largest technical professional society.

For further information, contact IEEE-USA’s Scott Grayson at 202-785-0017, ext. 339, or s.grayson@ieee.org.

THE EVENT INCLUDES:
• An all-you-can-eat Cookout served at 12:30pm-1:30pm, with all the fixin’s, and desert
• Free unlimited soft drinks from 11:30am-4:30pm.
• Free Congo River Adventure Golf featuring two 18-hole miniature golf courses included in your admission 12:00 Noon 5:00pm!
• Please be reminded that cotton or denim shorts, cut-offs, or any clothing item with metal fasteners, rivets, zippers or buckles, will not be allowed on the rides.
• Call Dr. Christos Christodoulou at 823-5913 or email: cgc@ece.engr.ucf.edu for tickets and information.
• Parking $4.00 per automobile
• Picnic baskets are welcome, however glass and alcoholic beverages are prohibited.
EVENTS CALENDAR

For the latest information contact the IEEE Orlando Voice Information Center (407) 260-1676, FAX: (407) 260-1636
E-mail1: j.medin@ieee.org - E-mail2: sec.orlando@ieee.org - Web Page: http://ieee-os.egr.ucf.edu

Sep 02  6:00 PM  Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, trk@ece.egr.ucf.edu
Sep 09  6:00 PM  CNSIG - Networking Meeting - Orange County Library, 3rd. Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org
Sep 16  6:30 PM  PE/IA/PEL - Technical Tour of Dynamic Voltage Restorer - Econolockhatchee Substation, Ken White (407) 419-3525
Sep 27  10:00 AM  Orlando Section - IEEE Summer Splash Bash! - Wet'n Wild, Dr. C. Christodoulou, 823-5831, cgc@ece.egr.ucf.edu

Oct 07  6:00 PM  Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, trk@ece.egr.ucf.edu
Oct 14  6:00 PM  CNSIG - Networking Meeting - Orange County Library, 3rd. Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org
Oct 21  6:00 PM  PE/IA/PEL - Technical Tour of Orlando International Airport - Airport Control Tower, Bob Gray (407) 281-3269

Nov 04  6:00 PM  Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, trk@ece.egr.ucf.edu
Nov 11  6:00 PM  CNSIG - Networking Meeting - Orange County Library, 3rd. Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org

EMployment OPPORTUNITIES

Sage Technology, Inc., Marietta, GA, seeks experienced senior design engineers and scientists to develop the technology and machinery for Sage's patent-pending optical disc manufacturing process called NeuROM. When implemented, this process is expected to replace a substantial portion of the current manufacturing technology for Compact Discs.

Positions available include:

- Electrical/Computer System Engineer
- Software Engineer/Systems Analyst
- Electrical/Hardware Engineer
- Software Engineers
- Laser Physicist
- Mechanical Engineer - System
- Mechanical Engineer - Micro-positioning
- Software Engineer

Please refer to our Web Site: www.sagetech.com.

Contact:  Bill Harrison
Sage Technology, Inc.
1800 Sandy Plains Road, Suite 320
Marietta, GA 30066
Phone: 770-425-1186
Fax: 770-425-9854
E-Mail: w.harrison@ieee.org
Meeting Announcements

Unless otherwise stated, non-IEEE members are welcome to attend the meetings listed here. Members are encouraged to invite and bring guests to these events.

Networking Meeting and Member's Presentation

Sponsor: Consultants' Network
Program: The IEEE Orlando Consultants' Network is inviting each and every one of its members to present a briefing on his consulting background and services at this meeting.

Speaker: Dr. David A. Conner, the principal of David A. Conner, Ph.D., P.E., is a consulting engineer, expert witness, and training provider in the areas of product liability, design methodology (including reverse engineering), electric power systems, electric power transformers, electromagnetic radiation, electromagnetic interference, and engineering interactions in the legal/court environment. Dr. Conner is a P.E. in Alabama, Georgia, Kentucky, and Tennessee. Dr. Conner can be reached at 4605 Summit Cove, Hoover, AL 35226-4207, phone: (205) 934-8440, (205) 733-9346, Fax: (205) 975-3337, E-mail: d.conner@ieee.org.

Date: Tuesday, October 14, 1997
Time: 6:00 - 7:30PM
Place: Orange County Library System, 3rd Floor, Patio Room, Orlando
Reservations: Jorge Medina (407) 260-1676 or email: j.medina@ieee.org

Technical Tour of the Orlando International Airport Control Tower/Radar Systems

Sponsor: PE/IA/PEL
Details: Tour will include TRACON, CAP, and Radar Equipment Room
Speaker: Marvin Dalton, Assistant Coordinator for Radar
Date: Tuesday, October 21, 1997
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Contact: Bob Gray at (407) 281-3269.

WHAT IEEE-USA'S TRANSITION YEAR MEANS FOR U.S. MEMBERS (Part I)

by Daniel Benigni, Chair, IEEE United States Activities Board

The new Bylaws for IEEE-USA will take effect on January 1, 1998, and what is now known as "IEEE United States Activities" (IEEE-USA) will become "IEEE United States of America." What does this change mean to you -- the U.S. members of the IEEE? Is this just a cosmetic change? What will the effects be, and will they benefit you? Why should you care? I will address these important questions over the next few months in a series of articles designed to keep you up-to-date on the actual transition and on my priorities for this year.

The new Bylaws were written to: (1) make USAB a more autonomous, self-governing IEEE entity; and (2) end the practice of the VP of Professional Activities automatically assuming the role of USAB Chair -- some basic, but important, objectives.

Although the Bylaws do not take effect until next year, we are preparing now for a new IEEE-USA Board configuration, which includes four new offices to be filled by you, the U.S. members, vote. At our February 1997 Board meeting in San Antonio, USAB endorsed the candidates nominated for all positions. There are two candidates each for President, President-Elect, Member-at-large for a one-year term, and Member-at-large for

Continued on page 2
THE ORLANDO SECTION MONTHLY
Published by the
IEEE ORLANDO SECTION
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UFCE STUDENT BRANCH
Web Page: http://www.ece.engr.ucf.edu/ieee
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823-2786 - petraske@pegasus.cc.ucf.edu
Advisor: Dr. Takis Kasparis - VMBox 110
823-5913 - tkn@ece.engr.ucf.edu
Chairman: Peter Bas - VMBox 720
657-1126 - pbw86144@pegasus.cc.ucf.edu
SRC: (vacant) - VMBox 730

IEEE ORLANDO INFORMATION CENTER
E-mail: sec.orlando@ieee.org
Web Page: http://ieee-os.engr.ucf.edu
Voice Mail (407)260-1676 - Fax (407)260-1636

Dr. Takis Kasparis, Section Chairman

CHAIRMAN'S CORNER

The first executive committee meeting after the summer break was held on September 2 at UCF. Unfortunately, due to conflict with my teaching schedule I was able to attend only the first 20 minutes. Vice chairman Dr. Christodoulou took over after that. Various solutions were discussed and it was decided to hold the October and November meetings on the first Monday (instead of Tuesday) of the month. For those of you who plan to attend these meetings, please note this change. The meeting place will still be the same, room 288 in the Engineering building of UCF. We are considering changing the meeting place to a more central location. Any suggestions are welcomed.

In an effort to increase the attendance to our technical meetings, it was discussed to join forces with the Electrical and Computer Engineering (ECE) Department. The idea is to combine the ECE Graduate Seminar with IEEE technical meetings. There are still details to be worked out.

The next Florida Council meeting will take place in Orlando at UCF in November. For those who wish to attend, more details will follow.

The annual Family Fun day will be held at Wet’N’ Wild on September 27. Hope to see you all there. In addition to food, drink and fun, we will also have on site applications for senior membership. Those of you who are eligible to apply, are encouraged to do so. For tickets contact our programs chair, Dr. Christodoulou at 823-5831.
Again, the next executive meeting will be on October 6 at UCF. Please Join us.

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WHAT IEEE-USA’S TRANSITION YEAR MEANS FOR U.S. MEMBERS (Part 1)
a two-year term. [We also have a petition process if any of you wish to run for any of these positions.] In subsequent years, the election will only be for President-Elect and one Member-at-large (the other candidates are being elected this year only, as it is a transitional time).

The real historical significance is that for the very first time, you, and not the IEEE Assembly, will decide who is going to lead IEEE-USA. The person you choose will not have the separate responsibility as Vice President of Professional Activities -- that title and position will no longer exist on January 1, 1998.

Your Vote is Vital

This is your opportunity to make your IEEE vote count as never before, since the first few Presidents of IEEE-USA that you elect will set the tone for the future of the organization. Pay close attention to their campaigns, to their ideas for the future, and to their commitment to positive change. What they want to accomplish will be the mandate you give to whomever wins. To me this is a most exciting new benefit for U.S. members. Another milestone is that these changes will be taking place in 1998, exactly 25 years after USAB’s founding.

The title of IEEE-USA President may seem confusing to some, and that’s understandable. The writers of the new Bylaws and the USAB Board felt strongly that the title is of utmost importance. The President of IEEE-USA will now unequivocally speak only for IEEE members in the United States. When that person speaks to Congress, to the White House, to the media, or to indus-

Page 2
try, he or she will be speaking for you more directly than ever before. When that person says 'I represent 220,000 IEEE members,' there will be no confusion as to who those members are. The IEEE President will still represent the global/transnational IEEE, and the two should not be confused.

The Member-at-large (MAL) positions represent another new benefit to U.S. members. The MALs are representatives of all of the IEEE’s U.S. members. They do not represent a particular geographic area or technical specialty. This allows the MAL to be unencumbered by not having to respond to the will of a particular constituency. The MAL is, in effect, the eyes, ears, and voice of all U.S. members. The MAL has no formal portfolio of duties assigned by the new Bylaws, is ‘at-large’, and able to participate in specific IEEE-USA activities of interest to the MAL (with the concurrence of the cognizant IEEE-USA officers).

These are just a few of the new benefits that your membership and your ballot will give you this year, as we prepare for 1998. I would appreciate hearing from you through the IEEE-USA Office at 202-785-0017 or by e-mail at d.benigni@ieee.org.

**TORT REFORM ADVANCES**

President Clinton on June 18 signed the Volunteer Protection Act of 1997 (Public Law 105-19) into law. The new law clarifies and restricts the potential liability of volunteers who serve on nonprofit association boards and committees such as the IEEE. However, it does not address liability issues related to "good Samaritan" situations, such as engineers who act in a personal capacity during an emergency. Congress is also looking at two new bills that would further expand the liability restrictions to include the individuals' organizations. IEEE-USA has supported passage of volunteer protection legislation at the state level for years through the American Tort Reform Association (ATRA).

**POWER TO THE PEOPLE: IEEE-USA SAYS "ELECT TO CONNECT!"**

Who will lead IEEE-USA? YOU decide! This fall, U.S. IEEE members will elect the top IEEE-USA officers for the first time. The IEEE Board of Directors' December 1996 approval of a major IEEE Bylaws restructuring resulted in a newly designated IEEE-United States of America that gives the IEEE's U.S. members -- not the IEEE Assembly -- the opportunity to elect their leaders.

IEEE-USA encourages the IEEE's U.S. members to plug into the elections and participate in this historic event. Members will receive their ballots in the mail next month (September), along with the IEEE-wide ballots and an elections booklet. Ballots are due on Nov. 3, 1997. Meanwhile, you can check out the wealth of information on the Web (see list of sites below) for more on the new IEEE-USA, the candidates and what this election means for you.

U.S. members will vote on an IEEE-USA 1998 President, a 1998 President-Elect (to serve as 1999 President) and two Members-at-Large -- one for a one-year term, and one for a two-year term, on IEEE-USA's Board of Directors. IEEE-USA's President will speak strictly for the IEEE's U.S. members, while the IEEE President will represent the transnational IEEE. The Member-at-Large positions represent all IEEE U.S. members.

Here's where to find more information:

Links to official candidate statements and bios, links to other sites
http://www.ieee.org/usab/ELECTION/

August *Perspectives* -- background article on elections and candidates' Q&A
http://infodev.ieee.org/usab/PERSPECTIVES/USAT0897.html#lead 1

August *Perspectives* Web Extra* article by IEEE-USA Chair Dan Benigni
"What IEEE-USA's Transition Year Means for U.S. Members -- Part II"
http://www.ieee.org/usab/PERSPECTIVES/extra0897.html#article1

IEEE-USA SOUNDS ALARM ON ENCRYPTION BILL

In letters sent in July to the chairs of the Senate Judiciary and Commerce, Science and Transportation Committees, IEEE-USA joined with the ACM (formerly Association for Computing Machinery) to urge defeat of the Secure Public Networks Act (S. 909). According to the letter: "National security and public safety will be weakened by the mandated introduction of constrained or recoverable-key encryption. We also believe that such action will hinder U.S. competitiveness in international markets, establish a dangerous precedent for the future, and endanger cherished civil liberties in the United States and elsewhere in the world."

**STUDENT MEMBER DUES REDUCED!**

The IEEE Board of Directors approved the reduction in Student membership dues to give students - the future of the IEEE - more value for their membership dollars. The reduction in dues will allow Students to enjoy all the benefits of membership with no reduction in service, and will give them financial room to join any of the IEEE Societies. Beginning 1 September 1997 for the 1998 calendar year, IEEE Student membership dues will be: $19.00 Regions 1-6 (United States) includes IEEE Potentials magazine.
THE ORLANDO SECTION MONTHLY

EVENTS CALENDAR

For the latest information contact the IEEE Orlando Voice Information Center (407) 260-1676, FAX: (407) 260-1636
E-mail: j.medina@ieee.org - E-mail2: sec.orlando@ieee.org - Web Page: http://ieee-os.engr.ucf.edu

Oct 06   6:00 PM   Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tkn@ece.engr.ucf.edu
Oct 12-15 6:00 PM CNSIG - Networking Meeting - Orange County Library, 3rd. Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org
Oct 14   6:00 PM  SMC - '97 IEEE Int'l Conference on Systems, Man and Cybernetics - Hyatt Orlando, Orlando
Oct 21   6:00 PM PE/IA/PEL - Technical Tour of Orlando International Airport - Airport Control Tower, Bob Gray (407) 281-3269
Nov 03   6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tkn@ece.engr.ucf.edu
Nov 11   6:00 PM CNSIG - Networking Meeting - Orange County Library, 3rd. Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org
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Dec 09   6:00 PM CNSIG - Networking Meeting - Orange County Library, 3rd. Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org

The Orlando Section Monthly - Advertisement Rates

The Orlando Section of the IEEE encourages placement of technical, professional, promotional, and commercial advertisement in the Orlando Section Monthly. This newsletter, read by more than 1,400 members and over 100 key area industries, is published 11 times a year, August through June. The due date for the receipt of the camera ready ad and payment is the 1st Tuesday of the month preceding the month of publication.

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<td>$165</td>
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</tbody>
</table>

Please call the IEEE Orlando Voice Information Center to place your ads or mail your camera ready material and payment to:
IEEE Orlando Section, 385 Commerce Way, Suite 109, P.O. Box 521917, Longwood, FL 32750, (407) 260-1676, Fax: (407) 260-1636

ORLANDO SECTION MEMBERS! USE THE IEEE PROFESSIONAL ASSISTANT NETWORK
We offer unemployed Orlando Section members and local IEEE oriented firms an opportunity to run a FREE position wanted and position available ads, respectively, in the Orlando Section Monthly. Write your own ad copy and mail or fax it to the Orlando Section Monthly editorial office. Please include your membership number. Your ad will appear in the next available issue.

YOUR AD HERE WILL REACH OVER 1,400 ENGINEERS AND OVER 200 ENGINEERING COMPANIES IN THE CENTRAL FLORIDA AREA
Tel: (407)260-1676 - Fax: (407)260-1636
E-mail: j.medina@ieee.org
Meeting Announcements

Unless otherwise stated, non-IEEE members are welcome to attend the meetings listed here. Members are encouraged to invite and bring guests to these events.

Publish or Perish: How to Write, Publish and Market Technical Books

Sponsor: COM/VT
Program: We publish for three reasons: ego, to create credibility, and to make money. Ego is simply telling a story. Professional credibility is necessary for job advancement, seeking new employment, and pursuing consulting opportunities. It is also a fundamental requirement for a university position. Publishing is easier than you think. The rewards can be very large. Learn how to select a publisher and how to self-publish. As a self-publisher, you must do the final copy edit, assemble the camera-ready copy, find a printer, advertise, and distribute the book. While these are easy, they must be approached with considerable forethought.

Speaker: Dr. Gerald C. Holst created JCD Publishing in 1993. The company specializes in books, software, and consulting services for the imaging system professional. Since 1994, JCD Publishing has sold over 4000 books worldwide.

Date: Tuesday, November 4, 1997
Time: 4:00 PM
Place: UCF, Engr. Bldg. Room 288

Refreshments: Pizza and soda
Contact: Dr. John Seybold (407) 275-3600 or E-mail: jsseymold@tasc.com

Computer Science Colloquium: Lossless Data Compression

Sponsor: Computer
Abstract: Data Compression is the process of eliminating or reducing the redundancy in data representation. Data compression helps in reducing the storage as well as communication costs. Data compression techniques are useful in applications such as multimedia, home entertainment, high bandwidth computing and communication devices. In lossless data compression, it is possible to recover the exact original data. In this talk, commonly used techniques such as the Huffman, Arithmetic Coding, Lempel-Ziv and its variations, JPEG and other methods for lossless image and text compression will be presented. Efficient VLSI implementations of data compression methods are widely used in above applications. The current state-of-the-art in hardware data compression will be briefly mentioned.

Speaker: Dr. N. Ranganathan, Univ. of South Florida, Center for Microelectronics Research, Dept. of C.S.E.

Date: Friday November 14, 1997
Time: 1:30-2:00 PM
Place: UCF, CSB 232

Refreshments: Served at 1:15 P.M.
Contact: Dr. Mark Goudreau (407) 823-5923, E-mail: goudreau@cs.ucf.edu

Networking Meeting and Member's Presentation

Sponsor: Consultants' Network
Program: The IEEE Orlando Consultants' Network is inviting each and every one of its members to present a briefing on his consulting practice. The following member has been invited to present an overview of his consulting background and services at this meeting.

Speaker: Mr. Jerry T. Taylor, P.E. of JT Engineering is a professional engineer who specializes on the design, configuration and implementation of PROVOX and other process control systems, including configuration design, batch and continuous operations, and operator display building. Performance tuning, configuration and setup of Open VMS systems and clusters. Planning and implementation of WAN and LAN including integration with process control computers and existing site networks.

Mr. Taylor can be contacted at 207 Applewood Drive, Lakeside Park, KY 41017-3171, phone/fax: (606) 341-4198, E-mail: jttaylor@ieee.org

Date: Tuesday, November 11, 1997
Time: 6:00 - 7:30 PM
Place: Orange County Library System, 3rd Floor, Patio Room, Orlando

Refreshments: Pizza and soda
Reservations: Jorge Medina (407) 260-1676 or E-mail: j.medina@ieee.org
The annual Wet’n Wild Summer Splash Bash took place on September 27. Unfortunately, the weather was not that friendly. The almost constant drizzling gave a true meaning to what “wet’n wild” is all about. Despite the unfavorable weather, the spirits were high and 120 people enjoyed the food and had a great time in the park with virtually no lines on any of the rides.

The EXCOM meeting took place on October 6 at UCF. The focus of this meeting was on how to increase participation in the various IEEE activities, especially from engineers practicing in the Orlando area.

One idea is to survey technical topics of current interest, and organize talks and tutorials on these topics.

Another idea is to increase student participation in technical meetings by coordinating these meetings with UCF seminars that students should attend. It was also decided to increase social activity within UCF. In this direction we started planning on a Christmas social event to take place in December. Also, we discussed ideas to revamp the two banquets that we have during the year, from the boring traditional rituals to more entertaining events including music and dancing. If anyone has any more ideas, we want to listen.

The next EXCOM meeting will take place on November 3, in room 107 of the Engineering building at the University of Central Florida. Please join us.
IEEE SOUTHEASTCON '98

ENGINEERING FOR A NEW ERA
APRIL 24 - 26, 1998
HYATT REGENCY
ORLANDO INTERNATIONAL AIRPORT
ORLANDO, FLORIDA, USA

ABOUT THE CONFERENCE:

Southeastcon is the annual technical conference of IEEE Region 3 organized for the purpose of bringing together electrical engineering professionals and students from the region and from around the world. The conference provides an outlet for bringing to the forefront new ideas and advances in the field and also provides an opportunity for fostering partnerships between education and industry.

Several technical sessions will be held where papers on new developments, advances and applications in electrical and computer engineering will be presented. Tutorials and Workshops on topics of current interest in the field will also be hosted.

ABOUT THE CONFERENCE SITE:

Southeastcon '98 will be held in sunny Orlando, Florida. Orlando is home to the world's top corporations, among them are Westinghouse, Lockheed-Martin, Lucent Technologies. Orlando has a multi-cultural society and is famous for its unequaled collection of attractions like Walt Disney World, Sea World, Universal Studios and Church Street Station and is the home of the NBA Orlando Magic team. Orlando offers an array of dining experiences and shopping here is an experience all on its own.

PAPERS AND TUTORIALS/WORKSHOPS SOLICITED:

The Program Committee invites you to submit original papers dealing with issues related to electrical and computer engineering.

Full length papers - Submission due November 15, 1997

Concise Papers - Submission due November 15, 1997

Tutorials/Workshops - Proposals due December 1, 1997

STUDENT PAPER CONTEST AND HARDWARE CONTEST:

Consult your Student Branch Counselor for details on the Student Paper contest. Submission deadline is February 13, 1998. Details of the Hardware contest can be obtained from the Student Program Chair.

GENERAL CHAIR
Dr. Parveen Wahid
ECE Department
University of Central Florida
Orlando, Florida 32816
Ph: 407-823-2610
pfw@ece.engr.ucf.edu

TECHNICAL PROGRAM CHAIR
Dr. Christos Christodoulou
ECE Department
University of Central Florida
Orlando, Florida 32816
Ph: 407-823-5831
cgc@ece.engr.ucf.edu

STUDENT PROGRAM CHAIR
Mr. Sean Ortiz
ECE Department
University of Central Florida
Orlando, Florida 32816
Ph: 407-823-5180
sco64380@pegasus.cc.ucf.edu

CONFERENCE WEB SITE: http://www-ece.engr.ucf.edu/secon98

CONFERENCE SPONSORS: IEEE REGION 3, IEEE ORLANDO SECTION
EVENTS CALENDAR

For the latest information contact the IEEE Orlando Voice Information Center (407) 260-1676, FAX: (407) 260-1636
E-mail: l.medina@ieee.org - E-mail2: sec.orlando@ieee.org - Web Page: http://ieee-os.engr.ucf.edu

Nov 03 6:00 PM  Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 823-5913, tkn@ece.engr.ucf.edu
Nov 04 4:00 PM  COM/VT - Publish or Perish - UCF, Engr. Bldg. Room 288, J. Seybold, 275-3600, jssebold@tasc.com
Nov 11 6:00 PM  CNSIG - Networking Meeting - Orange County Library, 3rd Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org
Nov 14 1:15 PM  Computer - Lossless Data Compression - UCF, CB 232, M. Goudreau, 823-5923, goudreau@ec.ucf.edu

Dec TBA 6:00 PM  Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tkn@ece.engr.ucf.edu
Dec 09 6:00 PM  CNSIG - Networking Meeting - Orange County Library, 3rd Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org

Jan 06 6:00 PM  Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tkn@ece.engr.ucf.edu
Jan 13 6:00 PM  CNSIG - Networking Meeting - Orange County Library, 3rd Floor, Patio Room, J. Medina, 260-1676, j.medina@ieee.org

The Orlando Section Monthly - Advertisement Rates

The Orlando Section of the IEEE encourages placement of technical, professional, promotional, and commercial advertisement in the Orlando Section Monthly. This newsletter, read by more than 1,400 members and over 100 key area industries, is published 11 times a year, August through June. The due date for the receipt of the camera ready ad and payment is the 1st Tuesday of the month preceding the month of publication.

<table>
<thead>
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<th>Ad Size</th>
<th>Width x Depth</th>
<th>Rate</th>
<th>Discounted Rate (more than one issue)</th>
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<td>$225</td>
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<tr>
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<td>8 x 7 or 9 x 10.5</td>
<td>$205</td>
<td>$195</td>
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<td>Half Page</td>
<td>8 x 5</td>
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<td>$185</td>
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<td>8 x 2.75 or 2.25 x 8</td>
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<td>4 x 3 or 2.25 x 5</td>
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YOUR AD HERE WILL REACH OVER 1,400 ENGINEERS AND OVER 200 ENGINEERING COMPANIES IN THE CENTRAL FLORIDA AREA

Tel: (407)260-1676 - Fax: (407)260-1636
E-mail: j.medina@ieee.org
Our warmest wishes for this holiday season and throughout the new year!

The IEEE Orlando Section Executive Board

γ STAR SEARCH γ

ORLANDO SECTION AWARDS

Purpose - To encourage and facilitate the identification of potential candidates for Orlando Section Awards by providing a simple avenue for preliminary consideration by the Awards Committee.

Procedure - The submitter fills out the form on page 3 and suggests nominations and endorsers to support the nomination. After a review process, some candidates will be selected for nomination. If the submitter is willing to prepare the nominations forms, the Committee will provide the necessary materials by return mail. If not, the Committee will attempt to locate a suitable nominator. The members of the Awards Committee are not permitted to nominate or endorse any candidates.

Qualifications - The Outstanding Engineer Award is designed to recognize a member of the Section who, through his/her technical and professional abilities, has made an outstanding contribution to the electro-technology profession.

The Outstanding Engineering Educator Award is designed to recognize a member of the Section who has shared his/her technical and professional abilities through teaching (in industry, government or in an institution of higher learning) and in so doing has made an outstanding contribution to the electro-technology profession.

The Outstanding Service Award is designed to recognize a member of the Section who, through his/her service to the Region and to the Institute, has made an outstanding contribution to the electro-technology profession.

The Outstanding Entrepreneur Award is designed to recognize a self-employed member of the Section who, through his/her consulting abilities has made outstanding contributions to the electro-technology profession.

Eligibility - 1) Only IEEE members with 3 years residency in the Orlando Section are eligible. 2) A nominee cannot be considered for more than one award simultaneously. 3) Current members of the Section Executive Board are not eligible. 4) Previous award recipients, even from other Sections, are not eligible for the same award. 5) The candidate need not be a member of a Group or Society.

Candidate Search Form - See page 3
Applied Protective Relaying Seminar

During the month of March, the Orlando Chapter of the IEEE Power Engineering/Industry Applications/Power Electronics Society will be hosting a seminar series on Applied Protective Relaying. The seminars will take place at the Pershing Street Training Facility of the Orlando Utilities Commission. The seminars will be held from 6:00 to 9:00 on Tuesday evenings beginning March 3, 1998 and ending on March 24, 1998. One Continuing Education Unit (CEU) will be awarded by the IEEE for those who attend the full seminar program. The seminar registration fee for IEEE members is as follows: $95 for Non-Students members and $15 for Student members. For non-IEEE members, the registration fee is as follows: $145 for non-student, non-members and $40 for student non-members. The deadline for registering by mail is February 20, 1998. In class registration will be permitted if space is available. For further information, contact the program coordinators: Abraham Nieves (Westinghouse) at nievesa@orl.wec.com (281-373) or Ken White (Black & Yeatch) at whitekd@bv.com (419-3525).

Also available at a discounted rate for seminar registrants are: IEEE 141, Recommended Practice for Electric Power Distribution for Industrial Plants (Red Book), and IEEE 242, Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems (Buff Book). Prices will be $40.00 and $30.00, respectively. Indicate below the book(s) you want to order and include payment for book(s) with your registration.

The tentative schedule for the seminar series is listed below:

<table>
<thead>
<tr>
<th>Date</th>
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<td>R. Jackfert, Westinghouse</td>
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<td>Schweitzer Engineering Labs</td>
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<tr>
<td>March 24, 1998</td>
<td>Industrial &amp; Commercial</td>
<td>E. Lebenhaft, General Electric</td>
</tr>
</tbody>
</table>

Registration: Send check, payable to IEEE Power Engineering Society, Orlando Chapter, for appropriate above mentioned amount to:

Abraham Nieves
Westinghouse, MC 100
4400 Alafaya Trail
Orlando, Florida 32826-2399

Name:__________________________
Address:__________________________

Telephone (Home):__________________________ (Work):__________________________
Firm:__________________________
IEEE#, If Member:__________________________

Check the box(es) below for the book(s) you want to purchase.

IEEE 141
IEEE 242
THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
ORLANDO SECTION AWARD CANDIDATE SEARCH FORM

1. AWARD:  

- Outstanding Engineer Award  
- Outstanding Engineer Educator Award  
- Outstanding Service Award  
- Outstanding Entrepreneur Award

2. NOMINEE:

Professional Affiliation and Title:

Current Address:

Work Phone: ( )  Home Phone: ( )

3. PROPOSED CITATION (30 words or less) FOR:


4. IEEE SOCIETY/BOARD RELEVANT TO ACHIEVEMENT CITED:


5. SUBMITTED BY:

IEEE Position and Grade:

Current Address:

Work Phone: ( )  Home Phone: ( )

6. ARE YOU WILLING TO PREPARE THE NOMINATION FORMS YOURSELF? YES  NO

7. POTENTIAL ENDORSERS (two required who are familiar with nominee, who can attest to his/her contributions and to the importance thereof):

<table>
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<th>A. Name:</th>
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8. BRIEF EVIDENCE TO SUPPORT NOMINATION/YEAR ACHIEVEMENT/IMPORTANCE:


9. SUGGESTED NOMINATOR(S) IF DIFFERENT FROM #5:


Submittal of this form does not replace the necessity of a completed nomination form. See page 1 for candidate qualifications.
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The Orlando Graduate Center is an extension of the Florida Institute of Technology, an independent university accredited by the Southern Association of Colleges & Schools. Our commitment to quality education and recognition as a leading research institution ranks us among the top universities in the nation. Our small, personalized classes can give you the skills needed to succeed in today’s competitive markets.

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- Engineering Management
- Computer Information Systems

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Florida Institute of Technology
3165 McCrory Place, Suite 161
Orlando, Florida 32803

www.segs.fit.edu
T he Florida Council meeting took place on November 22 at the University of Central Florida. Unfortunately, I was not able to attend because of other obligations. I would like to thank Dr. Kalpathy Sundaram for representing our section during the meeting.

We had a social event during the last Executive Committee meeting on December 1. The gathering was small, but we had a great time. The Dean of the University of Central Florida College of Engineering and the Chairman of the Electrical and Computing Engineering Department were present and we had the opportunity to have an update on recent trends in the Engineering profession.

The next Executive Committee meeting will be on January 6, next year! At this point I want to wish everybody a Happy Holiday Season, and a prosperous New Year!
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Westinghouse, MC 100
4400 Alafaya Trail
Orlando, Florida 32826-2399

Name:_________________________________________________________
Address:_____________________________________________________________________

Telephone (Home):____________ (Work):________________________
Firm:__________________________________________________________

IEEE#: If Member:

Check the box(es) below for the book(s) you want to purchase.

IEEE 141 [ ]
IEEE 242 [ ]
THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
ORLANDO SECTION AWARD CANDIDATE SEARCH FORM

1. AWARD:  
   ____ Outstanding Engineer Award  
   ____ Outstanding Engineer Educator Award  
   ____ Outstanding Service Award  
   ____ Outstanding Entrepreneur Award  

2. NOMINEE:  
   ________________________________  
   Professional Affiliation and Title:  
   ________________________________  
   Current Address:  
   ________________________________  
   Work Phone: ( ) ___________________ Home Phone: ( ) ____________

3. PROPOSED CITATION (30 words or less) FOR:  
   ____________________________________________  
   ____________________________________________

4. IEEE SOCIETY/BOARD RELEVANT TO ACHIEVEMENT CITED:  
   ____________________________________________

5. SUBMITTED BY:  
   ________________________________  
   IEEE Position and Grade:  
   ________________________________  
   Current Address:  
   ________________________________  
   Work Phone: ( ) ___________________ Home Phone: ( ) ____________

6. ARE YOU WILLING TO PREPARE THE NOMINATION FORMS YOURSELF?  
   YES  NO

7. POTENTIAL ENDORSERS (two required who are familiar with nominee, who can attest to his/her contributions and to the importance thereof):
   
   A. Name:  
   Position/Title:  
   Address:  
   City/ZIP  
   Phone:  
   
   A. Name:  
   Position/Title:  
   Address:  
   City/ZIP  
   Phone:  

8. BRIEF EVIDENCE TO SUPPORT NOMINATION/YEAR ACHIEVEMENT/IMPORTANCE:  
   ____________________________________________  
   ____________________________________________

9. SUGGESTED NOMINATOR(S) IF DIFFERENT FROM #5:  
   ____________________________________________  

   Please Return Form by 1/15/98
   To:  Dr. Kalpathy Sundaram  
        UCF Dept. of ECE  
        Orlando, FL 32816-0001

Submittal of this form does not replace the necessity of a completed nomination form. See page 1 for candidate qualifications.
Coming to Orlando - Three Practical EMC Seminars
- Understanding EMC Regulations (1 Day)
- Designing for EMC (2 Days)
- EMC Troubleshooting Workshop (1 Day)
Take 1, 2, 3 or 4 days... depending on your needs

EMI?

Why these EMC classes? Since 1992, Tektronix has hosted the popular "Designing for EMC" seminars presented by Kimmel Gerke Associates, Ltd. Two common requests were for (1) detailed troubleshooting information, and (2) regulatory information minus the "legal gobbledegook". This three-class series is our response.

Take only what you need. If you need information on EMC regulations, take Day 1. If you need practical EMC design information, take Days 2-3. If you need troubleshooting information, take Day 4. Incidentally, NO PRIOR EMC EXPERIENCE is necessary.

Taught by recognized EMC experts. Kimmel Gerke Associates are leaders in EMC consulting and training. (Authors, too -- they wrote the popular EDN Magazine "Designer's Guide to Electromagnetic Compatibility."). These are NOT ACADEMIC LECTURES, but are filled with PRACTICAL "NUTS & BOLTS" DESIGN CONCEPTS based on solving and preventing real-world EMC problems.

Seminar Topics Include:
- EMC Regulations & Testing (Day 1)
- Printed Circuit Board Design (Days 2-3)
- Power Supplies & Packaging (Days 2-3)
- Cables & Interconnect (Days 2-3)
- Grounding & Shielding (Days 2-3)
- Troubleshooting Methods (Day 4)

Where: Sheraton Inn Lakeside
3011 Maingate Lane
Kissimmee, FL 34747
(One Mile to Disney World entrance)

When: January 26-29, 1998
- Jan 26 (Mon) - Understanding EMC Regs
- Jan 27-28 (Tue-Wed) - Designing for EMC
- Jan 29 (Thur) - Troubleshooting Workshop

Fees: Include seminar handouts, continental breakfast, lunch, and refreshments.
- Understanding EMC Regulations ($395)
- Designing For EMC ($795)
- Designing For EMC + Workshop ($1095)
- All Four Days ($1395)

Registration: Call 1-800-763-3133.
Please Specify Seminar Code 5501.

For more information, or a detailed brochure, call Kimmel Gerke Associates (Toll Free) at 1-888-EMI-GURU. In house EMC seminars also available.

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Tektronix

Presented by

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Modern Diagnostic Ultrasound Imaging -- Assessing the Risks

Sponsor: Ultrasonics, Ferroelectrics, and Frequency Control Society
Speaker: Distinguished Lecturer Dr. William O'Brien, Jr., University of Illinois. Dr. O'Brien is Editor-in-Chief of the IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), the Acoustical Society of America (ASA), and the American Institute of Ultrasound in Medicine (AIUM) and a Founding Fellow of American Institute of Medical and Biological Engineering. He was recipient of the IEEE Centennial Medal (1984), the AIUM Presidential Recognition Awards (1985 and 1992), the AIUM/WFUMB Pioneer Award (1988), the IEEE Outstanding Student Branch Counselor Award (1989), and the AIUM Joseph H. Holmes Basic Science Pioneer Award (1993).

Date: February 19, 1998
Location: Radisson Plaza on Ivanhoe Blvd.
Reception: 6:00PM - Dinner: 6:30PM $14.00 for dinner - Lecture: 7:30PM
Reservations required: Gary Archibald 298-2000 x273

1997 Consultants' Fee Survey Results

Sponsors: Consultants' Network and PACE
Program: This network meeting will be a presentation of the summary of the 1997 survey of fee charged by our members. The Orlando Consultants' Network asked all its Region 3 members who have served clients during the 1997 period to respond to a questionnaire on consultants' fees. Our goal is to establish a realistic appraisal of the prevailing rate structure in our areas of expertise and should be beneficial to both ourselves and our clients.

Date: Tuesday, February 10, 1998
Time: 6:00 PM - 7:30 PM
Location: Orange County Library, 3rd Floor.
Reservations: Jorge Medina 260-1676, ext. 002, Email: j.medina@ieee.org

IEEE AWARDS BANQUET
A Tribute to Central Florida's Engineering Excellence
Park Avenue Grill, Winter Park
MARCH 7, 1998
For Details Please Contact
Dr. Christos Christodoulou
823-5831, cgc@ece.engr.ucf.edu
A Tutorial on Java

Saturday, March 14, 1998
1:00 - 5:00 PM
CREOL 102 - UCF Campus
Organized By
IEEE Student Chapter & IEEE Computer Society

Topics
- Basics of Object Oriented Programming System (OOPS); Why Java?
- Basic structures of Java; Inheritance and Extension of Classes; Java support for Inheritance and Extension of Classes; Exception Handling; I/O;
- Abstract Window Toolkit (AWT), Network Toolkit; WWW and Java Applets.

Miscellaneous
- Refreshments will be provided during the breaks.
- Lecture notes will be provided (included in the registration).

Intended Audience
- Any one with a knowledge of another programming language (such as C, Fortran, PASCAL) that wants to learn the basics of Java.

Seats Are Limited
- Registration is on first-come-first serve basis. So please send in your registration NOW!

Registration
- Send E-mail to u.vemulapati@ieee.org with the following information.
- Or fill in and return this form to the address at the bottom.

Name:

Telephone:

E-mail:

Status: Student / IEEE / Non-IEEE

Interested in purchasing Winston's book (at cost): Yes No

Students: $15 IEEE Members: $25 Non-IEEE Members: $50

Please mail the registration form to:

Dr. Udaya B. Vemulapati
Chair, IEEE-CS Orlando Chapter
1028 Gould Place
Oviedo, FL 32765

About the Presenters
Dr. Guha is a Professor of Computer Science in the Department of Computer Science at the University of Central Florida. His current research interests include Parallel and Distributed Computing, Modeling and Simulation, Visualization, and applications of Petri nets in software system design and performance evaluation.

Dr. Vemulapati is the Chair of the IEEE-CS Orlando Chapter and a faculty member in the School of Computer Science at the University of Central Florida. His research interests include distributed operating systems, distributed simulations, and high-performance scientific computing.
Applied Protective Relaying Seminar

During the month of March, the Orlando Chapter of the IEEE Power Engineering/Industry Applications/Power Electronics Society will be hosting a seminar series on Applied Protective Relaying. The seminars will take place at the Pershing Street Training Facility of the Orlando Utilities Commission. The seminars will be held from 6:00 to 9:00 on Tuesday evenings beginning March 3, 1998 and ending on March 24, 1998. One Continuing Education Unit (CEU) will be awarded by the IEEE for those who attend the full seminar program. The seminar registration fee for IEEE members is as follows: $95 for Non-Students members and $15 for Student members. For non-IEEE members, the registration fee will be as follows: $145 for non-student, non-members and $40 for student non-members. The deadline for registering by mail is February 20, 1998. In class registration will be permitted if space is available. For further information, contact the program coordinators: Abraham Nieves (Westinghouse) at nievesa@orl.wec.com (281-3273) or Ken White (Black & Veatch) at WhiteKD@bv.com (419-3525).

Also available at a discounted rate for seminar registrants are: IEEE 141, Recommended Practice for Electric Power Distribution for Industrial Plants (Red Book), and IEEE 242, Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems (Buff Book). Prices will be $40.00 and $30.00, respectively. Indicate below the book(s) you want to order and include payment for book(s) with your registration.

The schedule for the seminar series is listed below:

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Instructor</th>
</tr>
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<tr>
<td>March 3, 1998</td>
<td>Generation</td>
<td>C. Mozina, Beckwith Electric</td>
</tr>
<tr>
<td>March 10, 1998</td>
<td>Transmission Lines/Transformers</td>
<td>Dr. E. Schweitzer, Schweitzer Engineering Labs</td>
</tr>
<tr>
<td>March 24, 1998</td>
<td>Industrial &amp; Commercial</td>
<td>E. Lebenthal, General Electric</td>
</tr>
</tbody>
</table>

Registration: Send check, payable to IEEE Power Engineering Society, Orlando Chapter, for appropriate above mentioned amount to:

Abraham Nieves
Westinghouse, MC 100
4400 Alafaya Trail
Orlando, Florida 32826-2399

Name:__________________________________________________________

Address:__________________________________________________________________________

Telephone (Home):__________________________ (Work):__________________________

Firm:____________________________________________________________________________

IEEE#, If Member:_______________________________________________________________

Check the box(es) below for the book(s) you want to purchase.

IEEE 141 [ ]IEEE 242 [ ]
- Power Systems Design & Analysis using SKM Power*Tools for Windows -

**TARGET AUDIENCE:**
This course is intended for electric power engineers responsible for the design of three-phase electrical distribution systems. This course will stress calculation procedures, input data requirements, interpretation of output data and the application of the SKM PTW software as a design tool.

**COURSE OUTLINE:**

**Day 1 - Fault Analysis**
- Purpose
- Per Unit Representation
- Symmetrical Components
- Solution Techniques
  - 3P, SLG, LL, LLG Faults
  - Boundary Conditions
  - Calculation Procedures
    - Simplified Method
    - Classical Method
    - ANSI Method
- Sequence Impedance of System Components
- Fault Studies
- Input Data Requirements
- Documentation

**Day 2 - Load Flow Analysis (Morning)**
- Purpose
- Solution Technique
- Load Flow Models
  - Load Models (KVA, Z, L)
  - Generation Models (PQ, PV & SB)
- Load Flow Studies
- Input Data Requirements
- Documentation

**Day 2 - Motor Starting Analysis (Afternoon)**
- Purpose
- Solution Technique
- Full Voltage Starting
- Reactor Starting
- Autotransformer Starting
- Motor Starting Models
  - Motor Models
  - Load Models
- Motor Starting Studies
- Input Data Requirements
- Documentation

**Day 3 - Protective Device Coordination**
- Purpose
- Standard Protection Schemes
- Tips for Selecting Equipment Ratings
- Tips for Setting Protective Devices
- Methodology
- Protective Device Coordination Studies
- Input Data Requirements
- Documentation

**Day 4 & 5 - SKM PTW Class Lab**
- Case Studies using SKM PTW Software

**COURSE FEE:**
The fee is $1395. This includes all materials, computer usage and refreshments at breaks.

**REFUNDS & CANCELLATION:**
Refunds will be made if the enrollment is closed or if a letter of cancellation is received.

**REGISTRATION:**
To register please complete the registration form and return with payment to:

SKM Systems Analysis, Inc.
225 So. Sepulveda Blvd., Suite 350
Manhattan Beach, CA 90266-1376
(310) 372 - 0088

Advanced registration and payment are required 15 days prior to the start of the course. Total enrollment will be limited. Enrollment confirmation will include hotel information.

**REGISTRATION FORM:**

Name: ____________________________
Company: _________________________
Address: _________________________
City: _______ State: _______ Zip: _______
Phone: _______ Fax: _______

** 1998 First Quarter Seminar Locations **

- **Houston, TX** January 26th - 30th
- **Tampa, FL** February 23rd - 27th
- **Atlanta, GA** March 23rd - 27th
IEEE Awards Banquet

A Tribute to Central Florida's Engineering Excellence

Saturday, March 7, 1998
Park Avenue Grill
Winter Park

6:00 PM Cash Bar
7:00 PM Dinner and Awards

Choice of Entrees:
- Caesar Salad
- Prime Rib
- Chicken Parmesan
- Fresh Salmon

Choice of Desserts:
- Chocolate Hazelnut Cake
- Strawberry Cheese Cake

IEEE Members: $25.00
IEEE Students: $15.00
IEEE Fellows: Free
IEEE Fellows' Spouses: $25.00

RSVP: Dr. Christos Christodoulou
823-5831, cgc@ece.engr.ucf.edu

Dr. Takis Kasparis, Section Chairman

CHAIRMAN'S CORNER

The last EXCOM meeting took place at UCF on February 3. One item that was revisited was changing the location of the EXCOM meetings, in hope of more participation. Various options were discussed. It was decided to try the west side of Lockheed Martin (Sandlake Rd.) may be the most appropriate since many of their employees may join us. However, we must first obtain approval from Lockheed Martin. Until these details are resolved, we will continue meeting at UCF.

The recipients of section awards were selected. Some chapters did not provide their nominees yet. The Awards banquet will take place on March 7. See this newsletter for details. I hope to see you all there.

Southeastcon is approaching fast and there are many things that have to be prepared. If you want to help in any way, contact Dr. Parveen Wahid (823-2610 - pw@engr.ucf.edu). The next Florida council meeting will take place during Southeastcon.

The next EXCOM will be on March 3 at UCF. Please note a room change. We will move to room 288 in the Engineering building. Please join us.
A Tutorial on Java
Saturday, March 14, 1998
1:00 - 5:00 PM
Student Union Room TBA - UCF Campus
Organized By
IEEE Student Chapter
&
IEEE Computer Society

Topics
Basics of Object Oriented Programming System (OOPS); Why Java? Basic structures of Java; Inheritance and Extension of Classes; Java support for Inheritance and Extension of Classes; Exception Handling; I/O; Abstract Window Toolkit (AWT), Network Toolkit; WWW and Java Applets.

Miscellaneous
• Refreshments will be provided during the breaks.
• You can purchase a book "Onto Java" by Patrick Winston (MIT) published by Addison Wesley at a cost of $20.
• Lecture notes will be provided (included in the registration)

Intended Audience
Any one with a knowledge of another programming language (such as C, Fortran, PASCAL) that wants to learn the basics of Java.

Registration
• To register on-line visit http://www.cs.ucf.edu/registration.html
• Or E-mail to u.velumapatii@ieee.org with the following information.
• Or fill in and return this form to the address at the bottom.

Name: __________________________
Telephone: ______________________
E-mail: _________________________

Status: Student / IEEE / Non-IEEE

Interested in purchasing Winston's book (at cost): Yes No

Students: $15 IEEE Members: $25 Non-IEEE Members: $50

Please mail the registration form to:

Dr. Kalpathy Sundaram
Dept. of Electrical and Computer Engineering
University of Central Florida
Orlando, Florida 32816-2450
Applied Protective Relaying Seminar

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<td>Dr. E. Schweitzer, Schweitzer</td>
</tr>
<tr>
<td>March 17, 1998</td>
<td>Distribution</td>
<td>Engineering Labs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>E. Lebenhaft, General Electric</td>
</tr>
</tbody>
</table>

Registration: Send check, payable to IEEE Power Engineering Society, Orlando Chapter, for appropriate above mentioned amount to:

Abraham Nieves  
Westinghouse, MC 100 
4400 Alafaya Trail  
Orlando, Florida 32826-2399

Name: _______________________________  
Address: ___________________________________________________________  
Telephone (Home): ___________________  (Work): ____________________

Firm: ____________________________________________

IEEE#, If Member: ____________________________

Check the box(es) below for the book(s) you want to purchase.

IEEE 141 [ ]  
IEEE 242 [ ]

Page 3
Meeting Announcements

Unless otherwise stated, non-IEEE members are welcome to attend the meetings listed here. Members are encouraged to invite and bring guests to these events.

Introduction to Modem Technology

Theory and Practice of Bandwidth
Efficient Modulation from Shannon and Nyquist to Date

Sponsors: Communications and Signal Processing Chapters

Program: The presentation is an IEEE video tape and should be very interesting. All members and other interested parties are invited to attend.

Date: Wednesday, March 11
Time: 4:30 PM
Location: UCF Eng Bldg. Room 288

Refreshments: Pizza and soda will be provided and we will be raffling off some IEEE conference proceedings, which make nice additions to your library.

Contact: Dr. John S. Seybold 275-3600, jsseybold@tasc.com

Ten Minute Sales Manager

Sponsor: Consultants’ Network
Program: Ten Minute Sales Manager - Practical marketing strategies to help advertise and promote your consulting business.

Speaker: Mr. Edward D. Serapin is a graduate from Washburne, Chicago, IL, Sales Engineer for Southwest Industries, L.A. CA. Mr. Serapin has sales experience in advertising, life/health insurance, telemarketing and sales consulting.

Date: Monday, March 9, 1998
Time: 6:00 PM - Refreshments
6:30 PM - Presentation
Location: Orlando Public Library
Refreshments: Pizza and soda will be provided.

Reservations: Jorge Medina 260-1676, j.medina@ieee.org.

Premiere Issue of Today’s Engineer Hot Off Presses

Today’s Engineer, the first magazine to focus solely on nontraditional professional-development requirements for engineers of all disciplines, has published its debut issue.

The premiere issue of the quarterly magazine includes a series of articles and editorial departments geared for the professional development of all engineers, packaged with eye-catching illustrations and cutting-edge graphic design. The content highlights critical nontechnical skills such as the ability to think critically, creatively, independently and cooperatively; strong interpersonal and communications skills; and high ethical standards.

Today’s Engineer is published by IEEE-USA, which promotes the career and public-policy interests of U.S. members of the world’s largest technical-professional society. For more information on TODAY’S ENGINEER, call 202-785-0017, ext. 313; send e-mail to <ieeeusa-magazine@ieee.org>; or visit the magazine’s Web site at URL <www.todaysengineer.org>.

IEEE Southeastcon ’98

Engineering for a New Era
April 24-26, 1998
Hyatt Regency
Orlando International Airport
Orlando, Florida
407-823-2638
Email: vemula@cs.ucf.edu
www.ece.engr.ucf.edu/second98
IEEE ORLANDO SECTION
1998 AWARDS BANQUET
by Dr. Kalpathy B. Sundaram
Orlando Section Awards Chairman

The 1998 Orlando Section Awards Banquet was held at the Park Avenue Grill, Winter Park. 40 members and guests attended the function. The following awards were presented during the function.

Student Awards
Each year the section awards to an outstanding undergraduate and graduate students from the Electrical and Computer Engineering Department. The Award Winners are:

Outstanding Undergraduate ECE Student
*Michael Schilling*

Outstanding Graduate ECE Student
*Ahmed El Zoogby*

ECE Graduate Merit Award
*Huai Wei*

ECE Graduate Merit Award
*Scott Carter*

Outstanding Graduate
Computer Science Student
*Curtis Lisle*

Chapter Engineer-of-the-Year Award
Each of the Chapters in the Section select a member from within the Chapter as the Engineer-of-the-Year. The award is in recognition of outstanding contributions the members have made to their profession. The evaluation criteria include importance of technical contribution, technical papers and presentations, service to IEEE and the engineering profession. The following was the award winner for 1998:

Computer Chapter
*Dr. Sheau Dong Lang*

Orlando Section Awards

Outstanding Orlando Section Award Recipients

The Orlando Section Outstanding Engineer Award of the year was presented to Mr. *James R. Pipkin* who through his technical and professional abilities have made outstanding contributions to his profession. The Orlando Section Outstanding Engineer Educator Award was presented to Dr. *Issa Batarseh*, who through his academic contributions, has enhanced the engineering profession. This year the Outstanding Service Awards go to Dr. *Parveen Wahid* and Mr. *David King* in recognition of their contributions and service to the local and region level. The Outstanding Entrepreneur was given to Mr. *Michael Dodane* for his outstanding contributions to his field through his firm and for his service to the IEEE.

Florida Council IEEE Awards

The Orlando Section made a complete sweep of all the Florida Council Award for 1997 and these were presented to the following individuals during the Award Banquet. They are:

Outstanding Engineer Award
*Mr. Lon W. Montgomery*

Outstanding Engineer Educator Award
*Dr. Mubarak Shah*

Outstanding Service
*Mr. Jorge Medina*

Special thanks go to Dr. Kalpathy B. Sundaram, Section Awards Chairman, Dr. C. Christodoulou, Vice-Chair and Programs Chair, and Dr. Takis Kasparis, Section Chair and Photographer for making the evening a grand success. The Section would like to thank the Awards Committee for their help in selecting the 1998 Awards.

Outstanding Undergraduate and Graduate Student Award Recipients

Florida Council IEEE Award Recipients
Dr. Takis Kasparis, Section Chairman

The awards banquet took place on March 7 and it was a success. It was a warm atmosphere filled with live music that everybody enjoyed. Congratulations to all award recipients. I would like also to thank the awards chairman, Dr. Kalpathy Sundaram, for his hard work in preparing all the certificates.

The last EXCOM took place on March 3. One of the things discussed was the banquets and how to attract more participation. It was decided in the upcoming years to stop having the two traditional banquets, and instead to have an annual banquet with more entertainment and social flavor into it. Already, the presence of live music during the last banquet made a big difference.

Southeaston/98 is just around the corner. We do not have that often the opportunity to host such an event and we should make sure that Southeaston/98 will be a big success. Please contact Dr. Parveen Wahid to see how you can contribute to the success.

The next EXCOM will take place in room 288 at UCF. For those who are coming off campus, please make sure you have a valid parking permit. The cost is $2, but if you call me ahead of time, I can send you one at no cost. As I mentioned in the past, we are considering alternate sites for EXCOM, even the possibility of rotating the location. This will be discussed again during the next EXCOM. If you have any creative ideas please join us.

Search for New Section Officers

The Orlando Section elects officers for a term of one year beginning July 1. This year Nomination Committee formed by Dr. Gerald Holst, Dr. Kalpathy Sundaram and Dr. Parveen Wahid, will be accepting nominations for Section Officers (Chair, Vice Chair, Secretary and Treasurer). Nominations must be submitted in writing to the Nomination Committee on or before April 7, 1998.

The Section membership may make a nominations for new Section Officers by submitting quality petitions. A qualified petition shall meet the following criteria:

- Specify the office.
- Bear the signature of at least 15 voting Section members.
- Contain a statement of the nominee's consent to serve.
- State nominee's qualification and biography.
- Be delivered to the Section Nominations Committee on or before April 7, 1998 by 6:00 PM.

IEEE Region 3 Consultants' Fee Survey

Jorge Medina, Chairman of the IEEE Consultants' Network of Orlando (ICNO), has just completed the 1997 anonymous fee survey of member consultants. The results were categorized in terms of degrees, years of experience, billing methods, hourly rates, insurance and marketing methods. Here is some of the information compiled:

1. Our average member is a full time consultant with a MS degree.
2. Has been consulting for 10 years with at least 24 years of engineering experience.
3. Charges $90 per hour.
4. Bills by the hour.
5. Referrals by friends is the best marketing method.

A more detailed result will be presented in the next issue of this newsletter.
Meeting Announcements

Unless otherwise stated, non-IEEE members are welcome to attend the meetings listed here. Members are encouraged to invite and bring guests to these events.

Neural Beamforming and Array Antennas

**Sponsor:** AP/MTT  
**Speaker:** Dr. Hugh Southall, Air Force Research Laboratory, AFRL/SNHA, Sensors Directorate, Hanscom AFB, Mass  
**Abstract:** Our research in the application of neural network technology to the processing of signals from phased array antennas will be discussed. We will describe both digital beamforming and analog arrays. Experimental results from three different phased array antennas will be shown in the areas of direction finding (DF) and beam steering. For the DF function, a tutorial analogy will be given between the classic Butler matrix DFbeamformer and a neural network DF array.  
**Biography:** Hugh L. Southall was born November 17, 1944, in Farragut, Idaho. He graduated from the University of Texas at Arlington with a BS in Electrical Engineering in 1968 and from Texas Tech University with a MSEE and Ph.D. in Electrical Engineering in 1970 and 1975, respectively. He is a retired US Air Force officer, having served 23 years in the Air Force laboratories and at the Air Force Systems Command headquarters. His specialty is antenna technology. He works as a US government civilian at the Air Force Research Laboratory, AFRL/SNHA, Sensors Directorate, Hanscom AFB, Mass. performing research in neural-network technology applied to phased-array antennas. He is a part time lecturer at Northeastern University, Boston, MA. where he teaches the Electromagnetic Fields course in the undergraduate curriculum. Dr. Southall is a member of Tau Beta Pi and Eta Kappa Nu, & is also a senior member of the IEEE.  
**Date:** April 22  
**Time:** 4:50 p.m.  
**Location:** UCF, Engineering Building, Room 188  
**Contact:** Ahmed Hel Zoogby, UCF: (407) 823-0177, Home: (407) 273-1344, Fax: (407) 823-5835, Email: ahe@ece.engr.ucf.edu

Ten Minute Sales Manager

**Sponsor:** Consultants' Network  
**Program:** Ten Minute Sales Manager - Practical marketing strategies to help advertise and promote your consulting business.  
**Speaker:** Mr. Edward D. Serapin is a graduate from Washburne, Chicago, IL, Sales Engineer for Southwest Industries, L.A. CA. Mr. Serapin has sales experience in advertising, life/health insurance, telemarketing and sales consulting.  
**Date:** Tuesday, April 14, 1998  
**Time:** 6:00 PM - Refreshments  
**Time:** 6:30 PM - Presentation  
**Location:** Orlando Public Library, 3rd floor.  
**Reservations:** Pizza and soda will be provided.  
**Location:** Jorge Medina, Office: 407-260-1676 ext. 002, Home: 407-245-9594, Email: j.medina@ieee.org.

Mentoring In Motion  
A Today's Engineer Spring 1998 Preview

Do we need a new mentoring model for engineers? What are the responsibilities of engineering managers and employees to seek mentoring relationships? Do engineers really need mentors at all? These are just a few of the questions answered in the Today’s Engineer article “Mentoring In Motion.”

The article seeks to address the key issues in the engineering mentoring debate. It explores the underlying need for mentors in this ever-changing work environment, and sets guidelines for the qualities that good mentors should possess. “Mentoring In Motion” sheds light on the very essence of the mentoring relationship itself - as a way to advance the professional performance of the individual in an environment of uncertainty, risk, and dynamic global change - and tailors it specifically to the needs of all engineering professionals.

Be sure to pick up a copy of the Spring 1998 Today’s Engineer, published by IEEE-USA. To subscribe, call 1-800-678-4333 (1-732-981-0060) and ask for Product No. PB-331. Annual subscriptions are U.S. $12.95 (overseas shipping additional) for IEEE members. For more information on Today’s Engineer, call 1-202-785-0017, ext. 313; send e-mail to ieeeusa-magazine@ieee.org; or visit the magazine’s Web site at www.todaysengineer.org.
THE ORLANDO SECTION MONTHLY

EVENTS CALENDAR

For the latest information contact the IEEE Orlando Voice Information Center (407) 260-1676, FAX: (407) 260-1636
E-mail1: j.medina@ieee.org - E-mail2: sec.orlando@ieee.org - Web Page: http://ieee-os.engr.ucf.edu

Mar 30-Apr 03  Computer Society - IEEE 9th Symposium on Parallel and Distributed Processing - Delta Orlando Resort, Orlando
Apr 07  6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tkn@ece.engr.ucf.edu
Apr 14  6:00 PM Consultants' Network - Ten Minute Sales Manager - Orange County Library, J. Medina, 407-260-1676, j.medina@ieee.org
Apr 22  4:00 PM AP/MTT - Neural Beamforming and Array Antennas - UCF, Engr. Bldg. Room 188, A. Zooghby, 407-823-0177
Apr 24-26  Orlando Section/UCF/FS3 - SoutheastCon '98 - Orlando Intl Airport, Orlando, Dr. P. Wahid, 407-823-2610, pwf@engr.ucf.edu
May 05  6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tkn@ece.engr.ucf.edu
May 12  6:00 PM Consultants' Network - Networking Meeting - Orange County Library, J. Medina, 407-260-1676, j.medina@ieee.org
Jun 02  6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tkn@ece.engr.ucf.edu
Jun 09  6:00 PM Consultants' Network - Networking Meeting - Orange County Library, J. Medina, 407-260-1676, j.medina@ieee.org

The Orlando Section Monthly - Advertisement Rates
The Orlando Section of the IEEE encourages placement of technical, professional, promotional, and commercial advertisement in the Orlando Section Monthly. This newsletter, read by more than 1,400 members and over 100 key area industries, is published 11 times a year, August through June. The due date for the receipt of the camera ready ad and payment is the 1st Tuesday of the month preceding the month of publication.

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Please call the IEEE Orlando Voice Information Center to place your ads or mail your camera ready material and payment to:
IEEE Orlando Section, 385 Commerce Way, Suite 109, P.O. Box 521917, Longwood, FL 32750, (407) 260-1676, Fax: (407) 260-1636

Software Engineers/Programmers/Software Managers

Optronic Laboratories - leader in full spectrum optical radiation measurement instrumentation, is seeking degreed Software Engineers and Programmers for product design and development. Candidates should have experience in C++ for MS Windows applications programming, with preference to MFC. Experience in embedded microprocessor control of opto-mechanical and electro-optical subsystems a plus. Please forward resumes to:
Roberta Bronson, VP of Engineering
4632 36th St., Orlando, FL 32811
e-mail to bb@olinet.com or fax 407-648-5412

IEEE SOUTHEASTCON '98
ENGINEERING FOR A NEW ERA
APRIL 24-26, 1998
HYATT REGENCY
ORLANDO INTERNATIONAL AIRPORT
ORLANDO, FLORIDA
407-823-2638
Email: vemula@cs.ucf.edu
www-ece.engr.ucf.edu/second98
Visual Communications
Three-part Modular Course
Prepares Engineers for the Telecommunications Revolution

Visual communications is the key element in modern information systems. Spurred on by developments in VLSI technology and the telecommunications revolution, digital documents and video processing are becoming commonplace in our everyday lives.

To prepare engineers for the explosion in visual communications, the Institute of Electrical and Electronics Engineers, Inc. (IEEE), has produced a video series in image and video compression, and transmission algorithms.

Grouped under a common title, Visual Communications, the series consists of three parts:

- Image Coding
- Video Coding
- Image and Video Transmission

A broad audience of engineering professionals can benefit from watching the Visual Communications series. For example, engineers, engineering managers and researchers responsible for visual communications from fax to video will find this series to be a useful educational tool. Network managers and engineers who want a greater understanding of basic enabling image and video compression methods, as well as transmission engineers responsible for transmitting compressed data from source to destination will also find the videos pertinent and informative.

The first in the series, Image Coding, introduces the basic theory of image coding. It covers concepts of information, entropy, scalar and vector quantization. In addition, it discusses transform and subband/wavelet coding. The viewers will learn the underlying principles of compression algorithms that enable modern image communications such as fax, lossless and noisy coding. Dr. William A. Pearlman of the Rensselaer Polytechnic Institute’s Center for Image Processing Research and ECSE in Troy, NY, is the presenter.

The Video Coding module concentrates on video signal processing including spatial and temporal filtering, digital video standards, motion estimation, and compensation. The viewers will learn underlying compression algorithms of modern video communications. Information on video standards from video phone to HTDV is also discussed. IEEE fellow, Dr. John Woods, also of Rensselaer Polytechnic Institute, instructs this module.

The third part of the Visual Communications series focuses on image and video transmission. It presents the effects of channel errors, including channel and network modeling, modulation and channel coding schemes, an information theory perspective, and joint source and channel coding. The audience will learn how to transmit images and videos on wired and wireless channels, as well as on ATM and packet computer networks. In addition, they will learn how to mitigate the effects of channel errors and lost packets. Dr. James W. Modesto, who is a professor at the Rensselaer

OUTSTANDING CHAPTER CHAIRMAN AWARD
It is final report time. Each Chapter Chairman is asked to prepare and submit a report on his/her chapter activities. covering the period July 1997 through June 1998. To make your reports timely and of use in selecting the Outstanding Chapter Chairman, please adhere to the following schedule:

May 5 - Attend the Executive Committee meeting and submit the following items:
1. Final written report of chapter activities, including summary report submitted earlier, names and addresses of new chapter officers, budget data and a narrative summary.
2. Oral report of activities (5 minutes).
3. Your vote for the best chapter award as based on the activity reports and other criteria.
4. Any and all meeting reports (Form L-31) not yet submitted.
5. Compute the activity index for your chapter for each meeting and total the results for the year. A description of the Chapter Activity Index Formula is shown below:

\[ AI = \sum_{i=1}^{N} (ai * Ai/M) \]

- \( N \) = Total number of meetings
- \( ai = 0.5 \) social meetings
- \( 1.0 \) professional meetings
- \( 1.5 \) technical meetings
- \( Ai = \) Total attendance, including non-members
- \( M = \) Total number of chapter members

The Outstanding Chapter Chairman Award will be presented at the IEEE Orlando Section Installation Banquet in June, 1998.

Continued on page 2
SOCIETY CHAPTER CHAIRMEN

AES: Dr. Gerald Holst - VMBox 210
   629-5370 - jgch@ccit.com

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Neural Net: Dr. M. Georgiopoulos - VMBox 500
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PE/IA/P: Ken White - VMBox 270
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SP:
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UFCF: Gary Archibald, Piezo Tech - VMBox 300
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Conference:
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   823-0185 - aberg@polcorp.uncf.edu

Education:
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Historian:
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Advisor: Dr. Takis Kasparis - VMBox 110
   823-5913 - trk@ece.uncf.edu

Chairman:
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   657-1126 - pbw86144@pensacola.ucf.edu

 diện: VMBox 730

IEEE ORLANDO INFORMATION CENTER

E-mail: j.medina@ieee.org

URL: www.parkave.net/business/ieeeorlando

Voice Mail (407)260-1676 - Fax (407)260-1936

Dr. Takis Kasparis, Section Chairman

CHAIRMAN’S CORNER

The main event of this month is Southeaston ’98 which will be on April 24, 25 and 26 at the Hyatt hotel in the airport. Our students have been working hard to prepare the setups for the hardware competition. About 14 schools have signed-up for the competition, so it looks like it will be an exciting competition. I encourage everybody to participate in Southeaston ’98. The main banquet will take place on April 25, and there will be a live band and a comedian to entertain us. Be sure to attend.

There will be also a Florida Council meeting on Friday April 24, at Southeaston ’98. In addition there will be a Region 3 meeting on Saturday afternoon. You can attend these if you wish.

The next EXCOM meeting will be at UCF on May 5 in room ENG 288. Please join us. Hope to see you all at Southeaston ’98.

Candidates for IEEE Orlando Section Officers Named

In accordance with the Section Bylaws, the following candidates for Section Officers for terms beginning July 1, 1997 and ending June 30, 1998, are as follows:

Chairman: Dr. C. Christodoulou
Vice Chairman: Dr. Albert Berg
Treasurer: Dr. Mubarak Shah
Secretary: Dr. Issa Batarseh

Chairs: Dr. John S. Seybold

Each person was contacted by the Nominations Committee formed by Dr. Gerald Holst, Dr. Kalpathy Sundaram and Dr. Parveen Wahid, and was found to be qualified and willing to serve.

Dr. Takis Kasparis

Dr. S. Seybold
The IEEE Consultants' Network of Orlando has just completed the 1998 anonymous fee survey of 30 Region 3 Consultants (a 42% response). Here is some of the information compiled.

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<td>13. OTHERS</td>
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</tbody>
</table>

* SEVERAL RESPONDENTS REPORTED MORE THAN ONE OPTION

The profile of the survey member is as follows: Charges $101 per hour, bills by the hour, is a full-time consultant, has a BA/BS degree, does not have a P.E. license, operates independently out of his home, does not have any liability insurance, carries his own health insurance, obtains business by referrals, has 25 years of engineering experience and 8 years of consulting experience, the average day receivable is 30-60 days and 30 day terms.
THE ORLANDO SECTION MONTHLY

EVENTS CALENDAR

For the latest information contact the IEEE Orlando Voice Information Center (407) 260-1676, FAX: (407) 260-1636
E-mail1: j.medina@ieee.org - E-mail2: sec.orlando@ieee.org - Web Page: http://ieee-os.engr.ucf.edu

May 05 6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tkn@ece.engr.ucf.edu
May 12 6:00 PM Consultants' Network - Networking Meeting - Orange County Library, J. Medina, 407-260-1676, j.medina@ieee.org
Jun 02 6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tkn@ece.engr.ucf.edu
Jun 09 6:00 PM Consultants' Network - Networking Meeting - Orange County Library, J. Medina, 407-260-1676, j.medina@ieee.org
Aug 04 6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tkn@ece.engr.ucf.edu
Aug 11 6:00 PM Consultants' Network - Networking Meeting - Orange County Library, J. Medina, 407-260-1676, j.medina@ieee.org
Sep 01 6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tkn@ece.engr.ucf.edu
Sep 08 6:00 PM Consultants' Network - Networking Meeting - Orange County Library, J. Medina, 407-260-1676, j.medina@ieee.org

The Orlando Section Monthly - Advertisement Rates
The Orlando Section of the IEEE encourages placement of technical, professional, promotional, and commercial advertisement in the Orlando Section Monthly. This newsletter, read by more than 1,400 members and over 100 key area industries, is published 11 times a year, August through June. The due date for the receipt of the camera ready ad and payment is the 1st Tuesday of the month preceding the month of publication.

<table>
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<tr>
<th>Ad Size</th>
<th>Width x Depth</th>
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Robert Bronson, VP of Engineering
4632 36th St., Orlando, FL 32811
e-mail to bb@olinet.com or fax 407-648-5412

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IEEE

Spring Picnic
Saturday, June 27, 1998
10:00 AM - 3:00 PM
Lake Claire
Next to the UCF Arena
Free to Orlando IEEE members and their guests

- An all-you-can-eat Cookout served at 12:00pm - 1:00pm, with all the fixings, and desert
  - Hot Dogs and Hamburgers
    - Soft drinks
    - Games
    - Music
    - Entertainment
    - Surprises
- Picnic Baskets and Covered Dishes are welcome
- Please contact Dr. Christos Christodoulou at 823-5831, Email: cgc@ece.enge.ucf.edu for more information

OUTSTANDING CHAPTER CHAIRMAN AWARD
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\[ \text{AI} = \sum_{i=1}^{N} (a_i \times \frac{A_i}{M}) \]

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  1.0 professional meetings
  1.5 technical meetings
- \( A_i \) = Total attendance, including non-members
- \( M \) = Total number of chapter members

The Outstanding Chapter Chairman Award will be presented at the IEEE Orlando Section Awards Banquet in 1999.
THE ORLANDO SECTION MONTHLY
Published by the
IEEE ORLANDO SECTION
EXECUTIVE BOARD

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Vice Chair: Dr. C. Christodoulou - VMBox 120
823-5831 - cgc@ece.engr.ucf.edu
Treasurer: Dr. Albert Berg - UCF - VMBox 130
306-6986 - aberg@diu.net
Secretary: Dr. Mubarak Shah, UCF - VMBox 140
823-5077 - shah@cs.ucf.edu

Chapters: (vacant)

SOCIETY CHAIRPERSON

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AP/MTT: Tony Ivanov - VMBox 220
823-5198 - tgi@ece.engr.ucf.edu
Computer: Dr. Udaya B. Vemulasapati, VMBox 230
823-2638 - u vemulasapati@iiee.org
COM/VT: Dr. John S. Seybold - VMBox 240
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Consultants' Network: J. Medina - VMBox 400
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ED/CHMT: Dr. Jianf (Peter) Yuan - VMBox 250
823-5719 - jys@engr.ucf.edu
LEO: Dr. N. A. Riza, CREOL-UCF - VMBox 260
658-6800 - riza@mail.creolo.ucf.edu
Neural Net.: Dr. M. Georgiopoulos - VMBox 500
823-5338 - mng@ece.engr.ucf.edu
PE/A/PEL: Ken White - VMBox 270
419-3525 - whitek@byv.com.
SP: Dr. Albert Berg, UCF - VMBox 290
306-6986 - al_p.berg@corial.orl.mmc.com
SRC: Dr. Harley Myler, UCF - VMBox 290
823-5098 - myler@pegasus.cc.ucf.edu
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THE ORLANDO SECTION MONTHLY

June 1998

Candidates for IEEE Orlando Section Officers Named

In accordance with the Section Bylaws, the following candidates for Section Officers for terms beginning July 1, 1998 and ending June 30, 1999, are as follows:

Chairman: Dr. C. Christodoulou
Vice Chair: Dr. Albert Berg
Treasurer: Dr. Issa Batarseh
Secretary: (Vacant)
Chapters Chair: Dr. John Seybold

Each person was contacted by the Nominations Committee formed by Dr. Gerald Holst, Dr. Kalpathy Sundaram and Dr. Parveen Wahid, and was found to be qualified and willing to serve.

Could You Be A Senior Member?

1998 is a great time to be nominating a colleague for Senior Member! Nominate a colleague, not only will the person benefit, but our 1998 Senior Member Initiative provides for a $10 reward for the entity nominator (Section or Society) for each successful nominee elevated by the end of 1998.

The Senior Member forms have been simplified, and are available via email. Send a blank message to senior-member-forms@ieee.org. You will automatically receive the application/nomination and reference forms by return email. The forms may be submitted via email as well; simply send your completed forms to senior-member@ieee.org. We have also implemented the Senior Member update, which provides contact information of all members elevated to Senior Member grade at the preceding Admission & Advancement meeting. Senior Member is the highest grade for which application may be made; elevation is a distinct honor. The Update is sent to key Region, Section and Society officers so they can congratulate their colleagues. To subscribe, send an email to majordomo@majordomo.ieee.org

stating "subscribe sr-member-update (your email alias)" without quotes or brackets.
How to Construct
An Effective 30 Second Message

by Mr. Ed Serapin, Marketing Consultant

There are three basic principles: First, you must have a single clear cut objective. Second, you must identify the right person, i.e., who's listening. Third, you must have the right approach. How to get there!

1. Determine the Objective. Ask yourself these following questions:
   A. Why am I going there/calling on phone?
   B. What do I want to achieve?
   C. Why do I want to have this conversation?
   D. Why do I want to write that letter?
   E. Why do I want to meet with this person/get this interview?
   F. Why does prospect need my product/service?
   G. What can I do to help this prospect company?

If two or more questions are answered the same, you have found your objective. The operative for the check list is always WHY? Once your objective is clear - Once you know WHY - You can now begin to prepare your message!

2. Determine the Right Person. Ask these questions:
   A. What's his/her name?
   B. What does he/she do? Duties/Responsibilities with company? Is this prospect the person who heads the department, section or company subsidiary that I need to talk to?
   C. Can he/she help me directly or do I get a referral from him/her?
   D. Is he the decision maker? If not, who is decision maker?
   E. Who is the final decision maker?

Once you have answered all these questions, you are now ready to approach the right person because you can give him/her what he/she wants, information on your product/service and do it in a concise and timely manner.

3. Determine the Right Approach. Ask these questions:
   A. What Am I talking about?
   B. What's the basis of my game plan?
   C. What's the heart of what I will say?
   D. What's the single best statement that will lead me to what I want?
   E. Can I comfortably build a case around the statement?
   F. What other vital statements will fit within or relate to this one?
   G. Will this relate to the needs and interests of my listener?

If the answer is the same to any of these questions, and relates directly to your objective and the needs and interests of your listener, you have found the right approach!

• The right approach is the single thought or sentence that will best lead to your objective!
• It will also take into consideration the needs and interests of your prospect.
• The right approach will give you focus, and always keep you on track toward achieving your objective.

Example - Setting an Appointment for an A/C Contractor:
Good morning. May I speak to Mr. Smith! ... My name is ... I am with ABC A/C Company. We develop solutions to indoor air pollution. Whether you have an existing A/C system or want a new system designed, our engineers have over 85 years of combined experience solving A/C problems. We designed and developed the A/C system for the XYZTown Mall in this city and can give you the same professional design and development service. Let's get together on Wednesday at 10:00 AM at your office. I'll answer all your questions at that time.

(29 seconds)
Contents: Company is the prospect. Hook: Indoor Air Pollution. Objective: To set appointment.
EVENTS CALENDAR

For the latest information contact the IEEE Orlando Voice Information Center (407) 260-1676, FAX: (407) 260-1636
E-mail: j.medina@ieee.org - E-mail2: sec.orlando@ieee.org - Web Page: http://ieee-os.engr.ucf.edu

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The Orlando Section Monthly - Advertisement Rates

For the Orlando Section of the IEEE encourages placement of technical, professional, promotional, and commercial advertisement in the Orlando Section Monthly. This newsletter, read by more than 1,400 members and over 100 key area industries, is published 11 times a year, August through June. The due date for the receipt of the camera ready ad and payment is the 1st Tuesday of the month preceding the month of publication.

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