



THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 2

A Monthly Publication of the IEEE Orlando Section

September 1997

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 -7:30PM

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 Econlockhatchee 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: Econlockhatchee 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.

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 657-1126 - pwb86144@pegasus.cc.ucf.edu
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Voice Mail (407)260-1676 - **Fax** (407)260-1636

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.ieeeusa.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)'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.

1997-'98 UCF Student Branch Officers

Chairman: Peter Bast
Vice Chairman: Jeremy McKinney
Secretary: Mike Lomonaco
Treasurer: Joe Smith

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.

Deadline for proposals and abstracts is Oct. 1, 1997. Speakers will be notified Nov. 1-15. Papers are due for inclusion in the conference proceedings on Feb. 1, 1998.

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@ieeee.org.



NEWS BREAKER

6200 INTERNATIONAL DR. ORLANDO, FL 32819 • (407) 351-1800 • FAX (407) 363-1147

Wet'n Wild

IEEE

SUMMER SPLASH BASH

SATURDAY, SEPTEMBER 27, 1997

PARK HOURS: 10:00AM - 6:00PM

Ticket Price: Adults \$15

Students (non-IEEE members) \$10

Children 3-13 years and Students \$5.00

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.

IEEE Orlando Section
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EVENTS CALENDAR

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- | | | |
|-----------|----------|--|
| Sep 02 | 6:00 PM | Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tnk@ece.engr.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 - Econlockhatchee 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.engr.ucf.edu |
| Oct 07 | 6:00 PM | Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tnk@ece.engr.ucf.edu |
| Oct 12-15 | | SMC - '97 IEEE Int'l Conference on Systems, Man and Cybernetics - Hyatt Orlando, Orlando |
| 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 t 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, tnk@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 |

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



THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 3

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October 1997

Meeting Announcements

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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: *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

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Contact: Bob Gray at (407) 281-3269.

*IEEE SUMMER
SPLASH BASH!*

at Wet'n Wild

September 27, 1997

For Details Call

**Dr. C. Christodoulou
823-5831**

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 when 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

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*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 to the conflict 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. Christos

Christodoulou at 823-5831.

Again, the next executive meeting will be on October 6 at UCF. Please Join us.

from page 1

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

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-

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 non-profit association boards and committee 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 in to 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/per0897.html#lead1>

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>

April Perspectives' Web Extra article by IEEE-USA Chair Dan Benigni "What IEEE-USA's Transition Year Means for U.S. Members -- Part I" <http://www.ieee.org/usab/PERSPECTIVES/extra0497.html#feature1>

August issue of *The Institute* Articles on IEEE-USA elections and "Why Bother to Vote" <http://www.spectrum.ieee.org/INST/aug97/toc.html>

The Institute archives -- search May-July issues for more elections coverage! http://www.spectrum.ieee.org/INST/bk_iss.html

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.

IEEE Orlando Section
P.O. Box 521917
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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>

- Oct 06 6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tnk@ece.engr.ucf.edu
Oct 12-15 SMC - '97 IEEE Int'l Conference on Systems, Man and Cybernetics - Hyatt Orlando, Orlando
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 t 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, tnk@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
Dec 02 6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tnk@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

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.

Ad Size	Width x Depth	Rate	Discounted Rate (more than one issue)
Two-Page	16.5 x 10.5	\$450	\$390
Full Page	8 x 10.5	\$300	\$255
3/4 Page	8 x 7.5	\$255	\$225
2/3 Page	8 x 7 or 5 x 10.5	\$225	\$195
Half Page	8 x 5	\$195	\$165
1/3 Page	8 x 2.75 or 2.25 x 8	\$165	\$135
1/4 Page	8 x 2.5 or 5 x 3.75	\$135	\$105
1/6 Page	4 x 3 or 2.25 x 5	\$80	\$72
Business Card	3.5 x 2.25	\$50	\$35
Two Page Preprinted Insert	16.95 x 10.95	\$292	\$252
Full Page Preprinted Insert	8.45 x 10.95	\$195	\$165

Please call the IEEE Orlando Voice Information Center to place your ads or mail your camera ready material and payment to:

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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.

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THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 4

A Monthly Publication of the IEEE Orlando Section

November 1997

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: jsseybold@tasc.com

Computer Science Colloquium: Lossless Data Compression

Sponsor: Computer

Abstract: Data Compression is the process of eliminating or reducing the redundancy 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: j.t.taylor@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

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Advisor: Dr. Takis Kasparis - VMBox 110
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*Dr. Takis Kasparis, Section Chairman***CHAIRMAN'S CORNER**

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 unfriendly 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.

**THREE NOTABLE MILESTONES
FOR JOB LISTING SYSTEM
IEEE-USA Employment Assistance
Committee**

1. ENTRY LEVEL JOB LISTINGS LAUNCHED We unveiled a new Entry Level Job Listing Service in August. With the increased demand for new graduates in the workplace and to better assist our student member, we developed a separate file specifically for entry level postings. Another new feature on the entry level page are links to companies that are actively recruiting new and recent graduates - so now employers can choose between listing either specific positions in the JLS or providing summarized information and a hot link to their own Web sites. Check out www.ieee.org/usab/EMPLOYMENT/info.ieeeusa.jobs.entry.txt.

2. IEEE-USA'S JOB LISTINGS FAVORITE AMONG ENGINEERS The JLS is the most popular job listing service for electrical engineers according to the respondents to EE-Times' Salary and Opinion Survey (see Sept. 1 edition). Of the respondents who got new jobs over the past year, more found jobs on the Net than at job fairs - and more of them (40%) used IEEE-USA's service than any other. Dan Benigni, Chairman of USAB, recognized the Employment Assistance Committee for their efforts and the success of the JLS with a special citation at the USAB awards ceremony during the PACE Conference.

3. JLS CAPABILITIES TO EXPAND SOON WITH SEARCHABLE DATABASE The JLS will shortly initiate a new JLS with capability to search listings on-line. This is a long-needed upgrade to the current system and should be available this fall. The old system of regional files grew out of the original implementation of email auto-response files and, although easily accessible (the JLS remains one of the most frequently visited Web site at IEEE), it is awkward to use. Look for the new, searchable JLS at www.ieee.org/jobs.html.

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 unequalled 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.

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ECE Department
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STUDENT PROGRAM CHAIR

Mr. Sean Ortiz
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sco64380@pegasus.cc.ucf.edu

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

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- Nov 03** 6:00 PM Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 823-5913, tnk@ece.engr.ucf.edu
Nov 04 4:00 PM COM/VT - **Publish or Perish** - UCF, Engr. Bldg. Room 288, J. Seybold, 275-3600, jsybold@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, CSB 232, M. Goudreau, 823-5923, goudreau@cs.ucf.edu
- Dec TBA** 6:00 PM Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, Dr. T. Kasparis, 823-5913, tnk@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, tnk@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

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THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 5

A Monthly Publication of the IEEE Orlando Section

December 1997

**Our warmest wishes for this holiday season
and throughout the new year!**

The IEEE Orlando Section Executive Board



Dr. Takis Kasparis, Section Chairman

CHAIRMAN'S CORNER

Hello IEEE members and friends. The next Florida Council meeting will take place on November 22 in Room EN288 at UCF. This time there will be a parallel meeting of student branches around Florida. Anybody interested can join these meetings. The next EXCOM meeting will be in Room 107 at UCF on December 1. Again, anybody interested is invited.

I would encourage all members to take advantage of the Chapter technical meetings. There is a wealth of knowledge that can be obtained by participating to the various technical seminars, especially those delivered by distinguished lecturers. If you know of anybody who can deliver a seminar, get in touch with the appropriate Chapter chairman.

I wish everybody a happy Thanksgiving and best wishes to all our members and their families for this Holiday season.

NETWORKING MEETING & MEMBER'S PRESENTATION

Sponsor: Consultants' Network SIG

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 members have been invited to present an overview of their consulting background and services at this networking meeting.

Speakers: **Mr. William J. Getson, P.E.**, EMC Consultant of GEI. Provides Engineering Consulting in the EMI, EMC, EMP and TEMPEST Analysis, Design, and Development of Communication, Data Handling, and other Electronic Systems for Military, FCC, EU, and other commercial applications. Tel/Fax: 813-391-0899, Email: GetsonEMC@AOL.com, URL: home.aol.com/GetsonEMC.

Mr. Percy F. Shadwell, Jr., Principal Consultant of Shadwell Technical Services offers complete new product development services and applied R&D. Has over 25 years of commercial design experience in projects ranging from analog signal processing to embedded microprocessors with fuzzy control. Tel: 904-223-4465, Fax 904-223-4510, Email: b.shadwell@ieee.org, URL: www.ccse.net/~butchs.

Date: Tuesday, December 9, 1997

Time: 6:00 PM - 7:30 PM

Location: Orlando Public Library, 3rd Floor

Refreshments: Pizza and soda

Reservations: Jorge Medina 260-1676

★ STAR SEARCH ★

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 endorses 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

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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 tentative schedule for the seminar series is listed below:

Date	Topic	Instructor
March 3, 1998	Generation	R. Jackfert, Westinghouse
March 10, 1998	Transmission Lines/Transformers	Schweitzer Engineering Labs
March 17, 1998	Distribution	G. Baker, Florida Power Corp.
March 24, 1998	Industrial & Commercial	E. Lebenhaft, General Electric

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: _____

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 UCF Dept. of ECE
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3. PROPOSED CITATION (30 words or less) FOR: _____

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Current Address: _____

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

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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 SECTION MONTHLY

Volume XXXI, Number 6

A Monthly Publication of the IEEE Orlando Section

January 1998



Dr. Takis Kasparis, Section Chairman

CHAIRMAN'S CORNER

The 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!

1996 Triangles of Education Conference

Videotape on Precollege Education

Sponsor: PACE/Consultants' Network

Program: A videotape of the Rochester NY Section's K-12 Education Roundtable that took place on December 12, 1996 at the Rochester Institute of Technology Student Alumni Union. The focus of this conference was on the state of math, science, and technology education in our schools and the role of scientists and engineers.

Date: Tuesday, January 13, 1998

Time: 6:00 PM - Refreshments
6:30 PM - Video presentation

Location: Orlando Public Library

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

REINERT ELECTED AS FIRST IEEE-USA PRESIDENT

Region 5 Director John R. Reinert has been elected the first-ever IEEE-USA president. IEEE-USA has just announced the winners of the 1997 IEEE election for leadership positions of the new IEEE United States of America, which will be born on Jan. 1, 1998. IEEE-USA PRESIDENT, 1998: John R. Reinert IEEE-USA PRESIDENT-ELECT, 1998: Paul J. Kostek IEEE-USA MEMBER-AT-LARGE, 1998: Jerry C. Aukland IEEE-USA MEMBER-AT-LARGE, 1998-1999: Frank E. Lord

★ STAR SEARCH ★ 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 endorses 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

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March 10, 1998	Transmission Lines/Transformers	Schweitzer Engineering Labs
March 17, 1998	Distribution	G. Baker, Florida Power Corp.
March 24, 1998	Industrial & Commercial	E. Lebenhaft, General Electric

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

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 Orlando, Florida 32826-2399

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A. Name:
 Position/Title:
 Address:
 City/ZIP
 Phone:

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

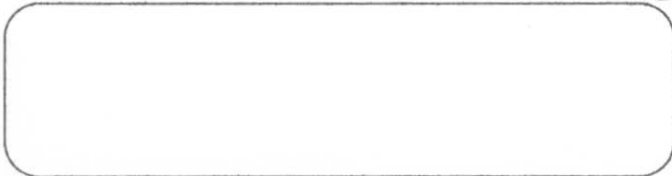
9. SUGGESTED NOMINATOR(S) IF DIFFERENT FROM #5.: _____

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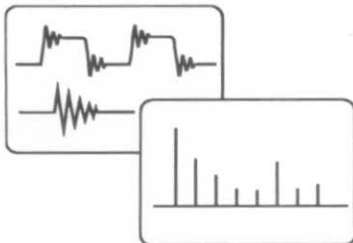
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THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 7

A Monthly Publication of the IEEE Orlando Section

February 1998



Dr. Takis Kasparis, Section Chairman

CHAIRMAN'S CORNER

Happy New Year. I wish everybody the best of successes during 1998. With Southeastcon '98 closing in, there are a lot of things that need to be accomplished during the early part of the year.

The first IEEE Orlando Executive Committee Meeting for the year was held on January 6, 1998 with limited attendance. The main topic of the meeting was the Awards Banquet. A date was set for March 7, 1998 at the Park Avenue Grill in Winter Park. This is a little bit later than previous years, but hopefully will provide more time for nominations. I urge all the chapter chairs to get their nominations on time.

The next Executive Committee Meeting will be on February 3, in room 107 in the engineering building at the University of Central Florida. I hope to see you all there!

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.

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**

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For Details Please Contact
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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.
- 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.

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 Petrinets 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:

<u>Date</u>	<u>Topic</u>	<u>Instructor</u>
March 3, 1998	Generation	C. Mozina, Beckwith Electric
March 10, 1998	Transmission Lines/Transformers	Dr. E. Schweitzer, Schweitzer Engineering Labs
March 17, 1998	Distribution	G. Baker, Florida Power Corp.
March 24, 1998	Industrial & Commercial	E. Lebenhaft, General Electric

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

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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_c, Z_c & I_c)
 - 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.

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** 1998 First Quarter Seminar Locations **
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THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 8

A Monthly Publication of the IEEE Orlando Section

March 1998



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 - pfw@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. ♦

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 Hazzard 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



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A Tutorial on Java

Saturday, March 14, 1998

1:00 - 5:00 PM

Student Union Room TBA - UCF Campus

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IEEE Student Chapter

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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.

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

Name: _____

Telephone: _____

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Status: Student / IEEE / Non-IEEE

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

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

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Orlando, Florida 32816-2450

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March 10, 1998	Transmission Lines/Transformers	Dr. E. Schweitzer, Schweitzer Engineering Labs
March 17, 1998	Distribution	G. Baker, Florida Power Corp.
March 24, 1998	Industrial & Commercial	E. Lebenhaft, General Electric

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

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Circulation 1,500

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@ieec.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 ieeusa-magazine@ieec.org; or visit the magazine's Web site at URL www.todaysengineer.org.



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THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 9

A Monthly Publication of the IEEE Orlando Section

April 1998

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 Zooghby

ECE Graduate Merit Award
Huai Wei

ECE Graduate Merit Award
Scott Carter

Outstanding Graduate
Computer Science Student
Curtis Lisle



Outstanding Undergraduate and Graduate Student
Award Recipients

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 Batareseh*, 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



Florida Council IEEE Award Recipients

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Dr. Takis Kasparis, Section Chairman

CHAIRMAN'S CORNER

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.

Southeastcon/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 Southeastcon/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 Nominations Committee on or before April 7, 1998.

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

- a) Specify the office.
- b) Bear the signature of at least 15 voting Section members.
- c) Contain statement of the nominee's consent to serve.
- d) State nominee's qualification and biography.
- e) 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

Program: April Seminar

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 DF beamformer 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: 4-5:00 p.m.

Location: UCF, Engineering Building, Room 188

Contact: Ahmed H EL Zooghby, 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
6:30 PM - Presentation

Location: Orlando Public Library, 3rd floor.

Refreshments: Pizza and soda will be provided.

Reservations: 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 ieeusa-magazine@ieee.org; or visit the magazine's Web site at www.todaysengineer.org.

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EVENTS CALENDAR

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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, tnk@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. Zooghyby, 407-823-0177
- Apr 24-26** Orlando Section/UCF/R3 - SoutheastCon '98 - Orlando Int'l Airport, Orlando, Dr. P. Wahid, 407-823-2610, pfw@engr.ucf.edu
- May 05** 6:00 PM Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tnk@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, tnk@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.

Ad Size	Width x Depth	Rate	Discounted Rate (more than one issue)
Two-Page	16.5 x 10.5	\$450	\$390
Full Page	8 x 10.5	\$300	\$255
3/4 Page	8 x 7.5	\$255	\$225
2/3 Page	8 x 7 or 5 x 10.5	\$225	\$195
Half Page	8 x 5	\$195	\$165
1/3 Page	8 x 2.75 or 2.25 x 8	\$165	\$135
1/4 Page	8 x 2.5 or 5 x 3.75	\$135	\$105
1/6 Page	4 x 3 or 2.25 x 5	\$80	\$72
Business Card	3.5 x 2.25	\$50	\$35
Two Page Preprinted Insert	16.95 x 10.95	\$292	\$252
Full Page Preprinted Insert	8.45 x 10.95	\$195	\$165

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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:

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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THE ORLANDO SECTION MONTHLY

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May 1998

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. Modestino 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

THE ORLANDO SECTION MONTHLY

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*Dr. Takis Kasparis, Section Chairman***CHAIRMAN'S CORNER**

The main event of this month is Southeastcon '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 event. I encourage everybody to participate in Southeastcon '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 Southeastcon '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 Southeastcon '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 Chair.: *Dr. Albert Berg*
Treasurer: *Dr. Mubarak Shah*
Secretary: *Dr. Issa Batarseh*
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. ♦

Visual Communications*from page 1*

Educational Activities is now offering Continuing Education Units (CEUs) for video tutorials. The whole series is worth 1.5 CEUs, while each individual module is worth 0.5 CEU. The run time of each module is:

- Image Coding — 6 hours, 30 minutes
- Video Coding — 5 hours, 30 minutes
- Image and Video Transmission — 4 hours, 30 minutes

Each module consists of four videotapes and is accompanied by a set of notes, a text and a final exam.

The videos can be purchased as a whole series or separately. To order:

The Visual Communications Series; use IEEE NTSC product number: HV6983. PAL number: HV6984. Member price: \$899.00. List price: \$949.00. · Image Coding; use IEEE NTSC product number: HV6996. PAL number: HV6997. Member price: \$399.00. List price: \$449.00. · Video Coding; use IEEE NTSC product number: HV6999. PAL number: HV7000. Member price: \$349.00. List price: \$399.00. · Image & Video Transmission; use IEEE NTSC product number: HV7002. PAL number: HV7003. Member price: \$325.00. List price: \$379.00.

Order the video tutorial from the IEEE Customer Service, 445 Hoes Lane, PO Box 1331, Piscataway, NJ 08855-1331. Make checks payable to IEEE. For single sales, call 1-800-678-IEEE; for company or institutional sales, call 1-800-701-IEEE; or fax 732-981-9667.

Call for overseas Air Freight charges. Credit card orders (MasterCard, Visa, American Express, and Diner's Club) are accepted.

IEEE videos include tutorials, short courses, distinguished speaker lectures and conference video proceedings. Topics are at the advanced undergraduate or graduate levels and include published learning objectives, as well as booklets that contain visuals and other information developed to enhance the learning experience. All video products are available in either NTCS or PAL standard. To order, one must select the standard that is used in the country where the tape will be played. If the individual is unsure about the video standard used in a particular country, he or she can call IEEE customer service. ♦

1998 IEEE REGION 3 ELECTROTECHNOLOGY CONSULTANTS' FEE SURVEY RESULTS

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.

CATEGORY	%	HOURLY RATE			
		LOW	MED.	HIGH	AVG.
BILLING METHOD:					
1. HOURLY*	80	\$57	\$79.5	\$102	\$101
2. DAILY*	29	\$65	\$97.5	\$130	\$98
3. FIXED*	36	\$35	\$55.3	\$76	\$70
FULL/PART-TIME:					
1. FULL-TIME	67	\$77	\$83.8	\$91	\$84
2. PART-TIME	33	\$99	\$122	\$144	\$115
COLLEGE DEGREE:					
1. B.S./B.A.	34	\$77	\$82.4	\$88	\$82
2. M.S./M.A.	33	\$70	\$69.9	\$78	\$70
3. Ph.D.	33	\$134	\$142	\$149	\$143
P.E. LICENSE:					
1. P.E.	26	\$87	\$97.5	\$108	\$98
2. NO P.E.	74	\$62	\$69.3	\$77	\$69
OPERATION:					
1. INDEPENDENT*	74	\$88	\$98.4	\$109	\$99
2. WITH PARTNERS	7	\$95	\$126	\$158	\$126
3. INCORPORATED*	52	\$75	\$84.3	\$94	\$84
4. CONT. EMPLOYEE	7	\$41	\$45.6	\$50	\$50
5. REG. EMPLOYEE	7	\$35	\$72.5	\$110	\$75
OFFICE:					
1. OFFICE AT HOME	81	\$94	\$101	\$108	\$101
2. RENTS AN OFFICE	19	\$44	\$66.7	\$89	\$66
E & O INSURANCE:					
1. E& O*	11	\$70	\$75	\$80	\$73
2. NO E&O*	89	\$86	\$97	\$108	\$97
LIABILITY INSURANCE:					
1. L.I.*	41	\$86	\$98.3	\$111	\$97
2. NO L.I.*	59	\$84	\$92	\$100	\$93
HEALTH INSURANCE:					
1. OWN'S POLICY*	78	\$84	\$93.8	\$104	\$94
2. FROM SPOUSE*	4	\$70	\$70	\$70	\$70
3. FROM MEDICARE	4	\$126	\$126	\$126	\$126
4. OTHER*	11	\$127	\$129	\$132	\$132

CATEGORY	%	HOURLY RATE			
		LOW	MED	HIGH	AVG
MARKETING METHOD:					
1. NETWORKING*	74	\$79	\$91.4	\$104	\$92
2. REFERRAL (C/F)*	78	\$87	\$97.8	\$109	\$98
3. REFERRAL (OCN)	4	\$35	\$52.5	\$70	\$50
4. REFERRAL (OCN DIR)	4	\$100	\$100	\$100	\$100
5. ADVERTISING*	7	\$85	\$105	\$125	\$103
6. COLD CALLS*	19	\$97	\$103	\$109	\$105
7. REFERRAL FOR A FEE	15	\$64	\$66.6	\$69	\$69
8. OTHER*	22	\$90	\$102	\$113	\$103
ENGINEERING EXPERIENCE:					
1. LESS THAN 25 YRS	56	\$64	\$79.7	\$96	\$80
2. 25 YRS OR MORE	44	\$111	\$113	\$116	\$114
CONSULTING EXPERIENCE:					
1. LESS THAN 8 YRS	56	\$83	\$102	\$121	\$104
2. 8 YRS OR MORE	44	\$106	\$112	\$119	\$111
PROBLEMS IN GETTING PAID:					
1. YES	19	\$109	\$112	\$115	\$111
2. NO	81	\$79	\$90.6	\$102	\$91
SPECIALTY*:					
1. CONTROLS	15	\$116	\$121	\$126	\$121
2. EXPERT WITNESS	19	\$144	\$147	\$150	\$146
3. FORENSICS	11	\$150	\$150	\$150	\$150
4. HARDWARE	22	\$89	\$107	\$124	\$106
5. ICs	4	\$125	\$188	\$250	\$188
6. MANUFACTURING	7	\$60	\$80	\$100	\$78
7. MANAGEMENT	7	\$75	\$87.5	\$100	\$88
8. MARKETING	11	\$73	\$81.7	\$90	\$82
9. POWER	19	\$73	\$80.4	\$88	\$79
10. RF	4	\$125	\$125	\$125	\$125
11. SOFTWARE	33	\$70	\$82.5	\$95	\$83
12. TELECOM	19	\$70	\$92.7	\$115	\$93
13. OTHERS	30	\$88	\$94.2	\$100	\$95

*** 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.

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EVENTS CALENDAR

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May 05	6:00 PM	Orlando Section - EXCOM - UCF, Eng. Bldg. Room 107, Dr. T. Kasparis, 407-823-5913, tnk@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, tnk@ece.engr.ucf.edu
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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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2/3 Page	8 x 7 or 5 x 10.5	\$225	\$195
Half Page	8 x 5	\$195	\$165
1/3 Page	8 x 2.75 or 2.25 x 8	\$165	\$135
1/4 Page	8 x 2.5 or 5 x 3.75	\$135	\$105
1/6 Page	4 x 3 or 2.25 x 5	\$80	\$72
Business Card	3.5 x 2.25	\$50	\$35
Two Page Preprinted Insert	16.95 x 10.95	\$292	\$252
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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 :

Robert Bronson, VP of Engineering
4632 36th St., Orlando, FL 32811
e-mail to bb@olinet.com or fax 407-648-5412

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.



THE ORLANDO SECTION MONTHLY

Volume XXXI, Number 11

A Monthly Publication of the IEEE Orlando Section

June 1998

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

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:

June 2 - 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:

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

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 Awards Banquet in 1999.

THE ORLANDO SECTION MONTHLY

Published by the

IEEE ORLANDO SECTION

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Advisor: Dr. Takis Kasparis - VMBox 110
823-5913 - tnk@ece.engr.ucf.edu
Chairman: Peter Bast - VMBox 720
657-1126 - pwb86144@pegasus.cc.ucf.edu
SRC: (vacant) - VMBox 730

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Dr. Takis Kasparis, Section Chairman

CHAIRMAN'S CORNER

Southeastcon is already behind us. I spent all three days at the conference site and everything seemed to be going smoothly.

Being also responsible for the student hardware competition, I was a little bit worried about unexpected problems. However, I am glad to say that with the exception of some minor glitches, everything went flawlessly. I can easily say that our hardware competition was the best during recent years. Several attendees shared the same opinion. Congratulations to all design teams who worked very hard. A big thank you is also in order for all volunteers who spent many hours of their time to ensure success. I am also very pleased to report that UCF won the first place on the Web page competition. Congratulations to the student group who designed the web site.

The last EXCOM meeting took place at UCF with limited attendance. The most important decision was to have this year again the Spring pic-nic. Watch this newsletters for details.

The next EXCOM will be at UCF on June 2. We will have elections of new officers. Please join us.

Senior Member Update

Following is a listing of the newly elected Senior Members from the April 1998 Admission and Advancement Committee meeting held in Fort Worth, Texas.

If you have any questions please contact Maria D'Alessio at m.dalessio@ieee.org.

Name	Technical Affiliation
William McCown	Power Engineering
Lon Montgomery	Dielectrics & Electrical Insulation, Magnetics, Power Engineering

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.

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.

Planned Innovation®

Sponsor: Consultants' Network/
PACE

Program: Planned Innovation® - a proven system for creating successful new products and services. The success rate for new products using this approach is nearly 100%.

Speaker: Mr. R. Trezevant Wigfall received his BSEE and MSIM (Industrial Management) from Georgia Institute of Technology. He is a registered Professional Engineer, and has assisted a number of companies including: Allied-Signal, Amstart, Asbjorn Habberstad (Norway), Dow Chemical (U.S. and Europe), Dow Corning, Federal Screw Works, Lear Siegler, MACTac, Oliver Products Company, Owens-Illinois, Rospach, Sams, Schlumberger, Steelcase, Xycom, and Irwin Seating. He is a former Advance Electronic Development Engineer, Whirlpool Corporation, and he holds several patents on electronic and electromechanical devices. Mr. Wigfall can be contacted at 840 Wesley Circle #302, Apopka, Florida 32703, phone: 407-682-1703, Fax: 407-682-1576.

Date: Tuesday, June 9, 1998

Time: 6:00 PM - Refreshments
6:15 PM - Presentation

Location: Orlando Public Library,
3rd floor.

Refreshments: Pizza and soda will be provided.

Reservations: Jorge Medina, Office: 407-260-1676, Home: 407-245-9594, Email: j.medina@ieee.org.

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.

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Product Manager - Fiber Optic Test Equipment - Melbourne, Florida

Requires skills in planning, development and introduction of new test equipment products, including technical marketing, industry analysis, advertising and pricing strategies. BSEE or technical degree required; MBA preferred. Minimum of 5 years telecom/datacom industry experience required. Develop business cases for new products by determining applications, features, competitive strategies and market projections to expand our world-wide sales of test equipment. You should possess excellent customer interface skills, solid technical product knowledge, and superior written and verbal skills.

BCP is an established ISO9001 manufacturer of fiber optic equipment with a strong international presence. Products cover high speed applications for SONET/SDH, ATM and gigabit technologies. BCP covers an amazing number of cutting edge technologies, and is also a leader in high speed fiber optic communications and RF wireless modules and subsystems. Visit our website at <http://www.bcpinc.com> and send your resume to BCP, Inc. 305 East Drive, Melbourne, Florida 32904, Attn: VP Marketing. You can also send your resume as text via Email to: mktg@bcpinc.com. BCP is an equal opportunity employer.