

IEEE

THE ORLANDO SECTION MONTHLY



The Newsletter of the Orlando Section of the IEEE

August 1995

IEEE ORLANDO SECTION 1995 INSTALLATION BANQUET

The Orlando Section Installation Banquet was held on Saturday, June 17 at Lee's Lakeside in Orlando. The gathering was fairly small, but everyone enjoyed a social hour followed by a delicious buffet dinner. The speaker, Mr. Rob Cato of University High School, gave an inspiring description of the innovative programs he has helped put in place at his school. These are engineering projects, which involve the student in actual complete project engineering, rather than a classroom study of the phenomena in question.

Just one example is the fully operational scale model of the space shuttle, which was launched at Disney last month during the Fourth of July celebration week. This shuttle is launched from a fully operational scale launch platform, has external tanks and sections separate as the real shuttle does, and can be flown by remote control for a safe



Mr. Rob Cato describes innovative programs he has helped to create which involve High School students in actual engineering projects.

landing. Needless to say, the students gain a great deal of valuable experience from participating in the planning, implementing, and problem solving associated with such a complex project. The excitement of being involved in such projects also tends to keep the students interested and motivated, mak-

ing the experience even more rewarding. Several other schools have visited University High, and are interested in setting up prototype programs based on Mr. Cato's work. Certainly this would lead to more students being interested in engineering and related fields.



Dr. Parveen Wahid (left) presents Dr. Issa Batarseh, PE/IA/PEL, with the Outstanding Chairman Award.

Certificates of Appreciation were given to EE Student Branch Advisors, Dr. Ron DeMara and Dr. Sam Richie. Mr. Matt Skowrowski and Mr. Richard Vanderbilt of the EE Chapter Student Branch also were awarded certificates.

Certificates of Appreciation were presented to the various Chapter Chairman as follows:



Mr. Jorge Medina (right) receives the Outstanding Chapter Chairman award from Dr. Parveen Wahid.

AES.....Dr. David E. Flinchbaugh
AP/MTT.....Dr. Amir Mortazawi
C.....Dr. Mark Goudreau
COM/VT.....Mr. Michael C. Germain
CN.....Mr. Jorge Medina
ED/CHMT.....Dr. K. B. Sundaram
LEO.....Dr. Patrick Li Kam Wa
PE/IA/PEL.....Dr. Issa Batarseh
SP.....Dr. Takis Kasparis
SRC.....Dr. Michael Haralambous
UFFC.....Dr. Rodolfo Almar

The NN Working Group Certificate of Appreciation was presented to Dr. Michael Georgiopoulos. Outstanding Chapter Chairman Awards went to Dr. Issa Batarseh, PE/IA/PEL and Mr. Jorge Medina, CN.

Following the presentations, Dr. Wahid introduced the new section officers for 95'-96':

Mr. Dave King.....Chairman
Dr. K. Sundaram.....Vice Chairman
Dr. Takis Kasparis.....Treasurer
Dr. Christos Christodoulou.....Secretary



New Vice Chairman, Dr. K. Sundaram (right) poses with outgoing Section Chairman, Dr. Parveen Wahid, Laurie Dunn, and new Section's Chairman, Dave King.

Dave King accepted the gavel from Dr. Wahid and committed himself to the continued leadership of the Section. A good time was had by all.

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*Mr. Dave King, Section Chairman***CHAIRMAN'S CORNER**

Welcome back! I'd like to take this opportunity to thank **Dr. Parveen Wahid and Jackie Hines** for their contributions during this past year. I would also like to repeat the wish that I expressed during my acceptance speech at the installation banquet in June; I only hope that I can represent the section with at least half of the grace and dignity that Dr. Wahid blessed us with this past year.

As incoming chairman of the Orlando section I am proud to represent you on behalf of the IEEE. It is indeed an honor to serve as your chairman and I look forward to having an active and productive year. As most of you are well aware our organization is a totally nonprofit volunteer entity. As such it is really geared to benefit those who participate. The greater the participation, the greater the benefit. I truly believe that I have received much more benefit than I have delivered as an active participant of the IEEE. I would encourage all of you therefore to set yourself the goal to become more active this year in your professional society.

I would like to emphasize two factors as a primary focus points for my tenure as chairman. The first factor is membership. I pledge to work to strengthen our membership in every way. We are initiating orientation sessions in July for the local section leadership as a way of developing more active participation at every level. I challenge each of you at the chapter level to hold your officers accountable for communicating information to and from the section with you

personally. Find out what is happening in the IEEE - locally, regionally and nationally.

I also challenge you to communicate your needs and desires regarding our section to us and to others. I'm sure you know many engineers who have considered joining the IEEE in the past, but somehow always overlook the opportunity. It is sometimes difficult to explain to many of these people just how the IEEE benefits us and why it is important to be a member. At these times I often think about why I am still an engineer. As I'm sure most of you will agree it is not for the glory and certainly not for the money. Engineering is the best way I know to make a good living and change the world for the better. The IEEE helps us to stay active with changes in our profession, it enlarges our perspective, it gives us a forum to advance our cause. The IEEE is a darned good habit.

The second focus point I would like to emphasize is education. Our speaker for the installation banquet, **Mr. Rob Cato**, gave a rousing talk about his programs at University High School here in Orlando. Under his leadership, University High has established a shuttle program with a scaled replica of the launchpad and shuttle. A converted bus serves as command center complete with launch stations, video cameras, recorders etc. The scale model contains ordinance to deploy chutes for the external tank and the shuttle is remotely piloted to land after launch.

Mr. Cato also has a virtual reality development program. They have built a trampoline station with full headgear. The next step in this program is to conduct research into brain activated control to enable quadriplegics to maneuver within the virtual domain. We need to participate in these type of activities. Please contact me if you would like to volunteer to participate in this program or in general with secondary education. I think we should start to dream the dreams we are capable of.

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.

CONSULTANTS' NETWORK (CN)

Turning A Manuscript Into a Book

Guidelines to Publishing

Abstract: How hard is it to publish a book? What are publishers looking for? Or should you start your own publishing company? The choice depends upon how you perceive the market, how you create a distribution network, and if you have the vision to see success. The rest is easy!

Guest Speaker: Mr. Gerald C. Host has written two technical books which he has published through his new company, JCD Publishing.

Member's Presentation

Consulting Practice & Services

Mr. Peter J. Hoyles of Hoyles Electronics, has a long history of successfully troubleshooting on any equipment, no matter what type or make. Rapid isolation of any problem is his strong skill. He works on any type of electronics, low-current or power semiconductor devices, VFD's and control systems. Fault tracing to component level. Emergency on-site service and repair; rapid response to anywhere in the world; foreign travel, no problem. Service and maintenance contracts available to maximize equipment uptime. Consultant for control systems design, electronic and H.V. electrostatic design, process design for materials and minerals. Equipment and machine

design using CAD. Electrical controller design, control system design services available. Programmable controller programming and debugging in ladder logic or mnemonic. Installation and start-up of industrial process and production plants, worldwide. Training seminars. Manuals.

Date: Tuesday, August 8, 1995

Time: 6:00 PM Meeting

Location: Orlando Public Library, 3rd. Floor

Contact: Please make your reservations by contacting Jorge Medina at (407) 260-1676, or Peter Hoyles at (904)737-9686.

E-mail: j.medina@ieee.org.

ULTRASONICS, FERROELECTRICS, FREQUENCY CONTROL (UFFC)

SAW Technology in the Former Soviet Republics

Guest Speaker: Alexander Rukhlenko, Ph.D., Department of Semiconductor Physics, Belarusian State University

Date: Thursday, August 10, 1995

Time: 6:00 PM

Location: Sawtek Inc., 1818 South Highway 441, Apopka, Fl. 32703

Contact: Scott Knapp, Sawtek, Inc., (407) 886-8860 x3262
E-mail: sk@sawtek.com

1995 PACE CONFERENCE

The IEEE's Cedar Rapids Section will host the 1995 Pace Conference in Iowa from September 1-4.

As you know, PACE leaders are responsible for facilitating professional activities at the IEEE's grass-roots level by outlining programs, conducting workshops and making IEEE-USA's resources available. The PACE Conference and Workshop offers PACE leaders the opportunity to gather information and acquire better leadership skills. Special training workshops are also offered for first and second year Pace leaders, prior to the formal opening of the conference.

This year's theme will be *Make a Difference*. The conference will begin on Friday, September 1. General sessions and workshops will begin on Saturday, the 2nd. Some of the topics to be covered will include:

- Influencing State Legislatures
- Intellectual Property
- Retirement
- Consulting/Consultants' Networks
- Professional Registration
- Technology Policy
- Cybersearching for Jobs
- Legislative and Regulatory Matters affecting Engineering Careers.

The Conference will close with an Issues Forum on Monday, September 4.

Conference participants guests can also participate in several tours of local attractions and special training sessions on Wordperfect and Microsoft software.

For additional information, contact Ann Hartfiel in the Washington office: Phone (202) 785-0017, ext. 341; or e-mail a.hartfiel@ieee.org.

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- Aug 1 IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg., D. King, (O) 862-9094, (H) 628-4462
Aug 8 IEEE CN - **Turning A Manuscript Into A Book** - Orlando Pub. Lib., J. Medina, (O) 260-1676
Aug 10 IEEE UFFC - **SAW Technology In The Former Soviet Republics** - Sawtek Inc., S. Knapp (O) 886-8860 x 3262
- Sep 5 IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg., D. King, (O) 862-9094, (H) 628-4462
Sep 12 IEEE CN - **Member's Presentation: Consulting Practice & Services** - Orlando Pub. Lib., J. Medina, (O) 260-1676
Sep 20-23 IEEE - **Eighth Int'l Conf. on Parallel and Distributed Computing Systems** - UCF, N. Deo, (O) 823-6336
- Oct 3 IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg., D. King, (O) 862-9094, (H) 628-4462
Oct 8 - 12 IEEE IA - **1995 IEEE Industry Applications Society Annual Meeting** - Hilton at Walt Disney World Village, Lake Buena Vista
Oct 10 IEEE CN - **Member's Presentation: Consulting Practice & Services** - Orlando Pub. Lib., J. Medina, (O) 260-1676
- Nov 7 IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg., D. King, (O) 862-9094, (H) 628-4462
Nov 14 IEEE CN - **Member's Presentation: Consulting Practice & Services** - Orlando Pub. Lib., J. Medina, (O) 260-1676

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The Referral Service of the IEEE CONSULTANTS NETWORK OF ORLANDO has over 60 engineering, technical and managerial consulting professionals available to help you with your particular problem. The Network's ethical code ensures the highest professional standards. There is NO CHARGE for referrals.

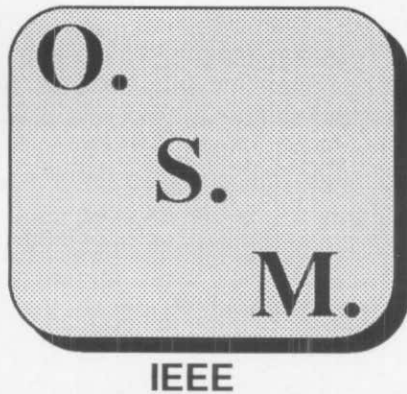
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Volume XXIX, Number 02



The Newsletter of the Orlando Section of the IEEE

September 1995

WHY BOTHER WITH PATENTS IN THE FIRST PLACE?

By Edward Tuttle
Corresponding member,
IEEE U.S. Activities Intellectual
Property Committee

In the April 1995 issue of *The Institute*, Jack Anderson provided us his view on the "first-to-invent" debate. I am also on the committee and strongly take an opposing view! We try to be democratic about these things and want all to know the committee is not monolithic, and we believe in our respective positions. The reader-members can decide to support views making most sense and importance to their lives.

It is noble to teach, but it is also noble to bring the product taught about into commerce so it will benefit mankind in a direct and timely manner. When you receive a U.S. patent, you receive from the government the right to prevent others from making, using or selling the product of your invention for a term of years (providing you pay certain fees during this term). There is nothing in the patent that grants you a teaching laureate. The patent is issued to enable commercialization of the invention to the initial benefit of the inventor(s) and assignees (owners) of the patented intellectual property. Owning a patent is a continuation of time, money and resource investment and is ordinarily not an altruistic exercise. If we are lucky, benefit to mankind follows. If one's objective is to teach, then publish at will and do not bother with patents.

LICENSE TO STEAL. There is a lot of posturing about the first-to-file system because it forces "earlier disclosure (and thus) serves the public good more than the first-to-invent" system. If you believe that you have much to learn about the world patent system. The first-to-file system is a license to steal, particularly in this Internet era. Ideas in one place can be casually "zapped" across borders and magically appear in a patent application filed in another country, before you think about going to the U.S. Patent Office. Under the General Agreement on Tariffs

and Trade and the North American Free Trade Agreement, we are all one big world, and invention is recognized from anywhere. If we go to first-to-file, an applicant filing anywhere wins!

PROVISIONAL PATENT. Now the U.S. Patents and Trademark Office is offering a new provisional patent application that is supposed to protect us from earlier filing from abroad. Be careful! It is seductive because of the low filing cost, but it adds to your total costs if you do later want patent protection and make the requisite second filing. Make sure you understand all the limitations regarding provisional filing. Know that the rather unique American first-to-invent system does protect the inventor who keeps good records and doesn't prematurely reveal the invention before going to the patent office. It has worked for about 200 years.

AMERICAN PRACTICALITY. My colleague suggests that the first-to-file system is not untried and is the system of choice for most of the world. There is some truth to that, but it is not because it is better, but a practice in most other countries where the individual inventor is a rarity, and most invention comes from large commercial firms. Also the cost of patents and subsequent maintenance (annuity) payments inhibits most foreign inventors. This author has spent over twenty five years in managing licensed technology transfer to and from the U.S. and also owns U.S. and foreign patents. When working for large entities we always worked in the first-to-file mode. But things are different now, and as a small entity inventor, I want the protection of the first-to-invent system, where I at least have a chance to be at parity with large entities if I was the first inventor! This is not "rugged individualism" but American practicality and commercial interest. We do have a good system, but we are being seduced into believing the rest of the world has a better scheme.

You will hear a lot of patent lawyers prattle about the evils and cost of interference proceedings occurring when the patent office has to determine who is the first inventor. To date, interferences occur in about 0.5 percent of the patents filed. It is true that this can be costly, but if one keeps good records, you can prevail at reasonable cost. But think of the alternative.

Proponents of the first-to-file want to bring you "prior users rights," which, if you are not the first to file but were still developing the invention, would allow you to stay in business in the U.S. But you will have to prove your case at equal or more expense than under an interference proceeding, and you still need good records. If you are allowed to stay in business, you can't grow and have no right to license your invention to others. It is hardly worth the pain, but a lot of disingenuous people, in and out of government, want to offer you that stunted carrot.

MAINTENANCE FEES. Most people do not know that the greatest revenue producer for the Patent Office is maintenance fees. But each year there are about 25,000 premature patent expirations when fees are not paid. (The U.S. issues about 100,000 patents per year.) These fees are coercive and owners are asked to bet on the future, but if the patent is yet to produce income, they lose their investment when fees aren't paid. The average investment in obtaining a U.S. patent is about US\$50,000 in legal costs, government fees, plus development time and money. This results in an annual loss of US\$1.25 billion in invention investment. There is a method to end maintenance that does increase filing and issue fees, but will save several thousand dollars in total government fees, and inventors can get a full patent term without additional fees. The actual cost can be less than 1 percent of the investment involved. The IEEE can promote the end of maintenance fees, worldwide, if our members express interest in constructive change and will support a campaign to our legislators.

Edward G. Tuttle, an IEEE Orlando Section life senior member, is president of Tuttle International, a technology marketing firm in Orlando.

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*Mr. Dave King, Section Chairman***CHAIRMAN'S CORNER**

Our first executive board meeting of the year was cancelled courtesy of Erin. This is great news since the IEEE year could not have begun on a more inauspicious note and, as we all know, the law of conservation of fortune dictates that "it can only go up from here."

I have given the chapter chairs an assignment and a challenge. The challenge is to find out what the assignment is. The clue is to log on to the IEEE bulletin board and look in the 'Strategic Planning Committee's' section. It is only fair, since I have given the chapter chairs an assignment, that I should give all of you an assignment as well. In this vein I am putting out a challenge to all of the chapters. The first chapter that can validate that 60% of its active membership has logged onto the IEEE BBS will win a special prize (to be announced). In addition the chapter with the greatest overall participation will also win a special prize.

To make this as fair and impartial as possible, there are a couple of rules. In order to register that you have indeed logged into the system, you must go to your local chapter section of the BBS. In that section you must leave a short message addressed to 'all'. The message should consist of YOUR NAME and your SOCIAL SECURITY NUMBER. That's it. It is up to the local chapter to monitor its own status and determine when they have reached the 60% mark. The contest will end by the executive committee meeting after September which is the first Tuesday in October. Good Luck! And may the best chapter win!

In July the SoutheastCon conference committee met with a representative of the Hyatt Hotel at the airport in Orlando. We discussed the terms and conditions of the contract for the Southeastcon Conference to be held in April 1998. This was our second

meeting with the hotel representatives. They have been very amenable and gracious. It looks like we will be able to put together a good conference and we shouldn't have a problem with the facilities or the contract. This is the first time that SoutheastCon is to be held in Orlando. It is a major event for the IEEE Region 3 and it is not too early to plan for supporting and attending this conference.

Please take note of the fact that the 1995 PACE conference will be held in early September in Iowa. Our own **Jorge Medina** will be attending to represent the Section and to receive an award for the work Jorge has done with the IEEE Consultants Network. Jorge has been a steadfast and stalwart leader in our section for many years. His consistently high level of effort in many capacities within our section has helped to propel the Orlando section into a position of national prominence. Congratulations Jorge!

Finally I would like to reiterate the two points I made in the previous chairman's corner. These two points, as you will recall, are membership and education.

Membership - Encourage your chapter members to participate in the contest we have set up. Encourage them to be active and to participate. We are all leaders whether we try to be or not, so let's lead each other in the right direction.

Education - Think about attending some of the meetings that you see announced in this newsletter. You don't have to belong to the consultants network to attend the meeting. If you see a national distinguished lecturer coming to Orlando, why not attend the meeting? It is a rare opportunity to listen to a world class expert. If you've been thinking about doing something with kids, why don't you give me a call, leave me some voice mail or sign on the BBS?

NETWORK CONNECTION '95

On Thursday, September 12, Harris Corporation, Brevard Technical Journal, IEEE South Brevard Indian River Section and the IEEE Canaveral Section will host NETCON '95 3rd Annual Conference & Vendor Exhibits at the Hilton Rialto Hotel in Melbourne, FL. There is no admission fee for this great event. Inquiries can be directed to Jerry Sonnenberg (407-727-5718).

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.

CONSULTANTS' NETWORK (CN)

Member's Presentation

Consulting Background and Services

Abstract: The IEEE Orlando Consultants' Network is inviting each and every one of its members to present a 15-minute briefing on his or her consulting practice as a condition of continued network membership. Each member will have an opportunity to brief their colleagues on their consulting practice and receive coverage of their technical biography in the IEEE Orlando Section Monthly newsletter, which is distributed to over 2,000 readers. Briefings and newsletter coverage will take place every month. These presentations will be in addition to (and in some months, in place of) our regular guest speaker program. The following members have been invited to present an overview of their background and services at the September meeting.

Fred B. Hagedorn, Ph. D. - Dr. Hagedorn has 30 years experience as an industrial physicist and has been a consultant since 1987. He has extensive experience in a wide variety of magnetic materials and devices, including radar absorbing material. Dr. Hagedorn is an expert in the design, fabrication and evaluation of antireflection coated windows for infrared systems applications, plus has experience with electroluminescent devices, such as edge emitters.

Hans A. Heynau, P.E. - Mr. Heynau of Electro-Optic Systems Associates specializes in providing optimized, innovative solutions for reducing Electro-Optic (E-O) components and systems concepts to practice in the following areas:

SYSTEMS: E-O system design, development, analysis, synthesis, verification, and management. Related areas include specialty engineering (MIL specs/ICDs), system optimization (both analytical and intuitive), risk assessment, and technical oversight.

SENSOR APPLICATIONS: Laser and E-O applications range from Laser Radar to Adaptive Optics systems to E-O instrumentation

and sensing products.

COMPONENTS: Areas of specific E-O component expertise include: active, adaptive, and passive optics; Acousto-Optics devices; laser modulation; photo detectors; scanners, and laser development.

Percy "Butch" Shadwell - Mr. Shadwell of Shadwell Technical Services specializes in electronic circuit and system design and implementation. Over 25 years of experience in: Analog, Digital, ASICs, Optoelectronics, Communications, Voice, data, video, WAN, Telemetry and remote control, Controls and industrial automation, PLCs, Robotics and machine vision, and Embedded computers. Software Engineering and programming experience on many different platforms in over fifteen languages and hundreds of thousands of lines of code, Fuzzy Logic and Neural Nets. Applied Physics including Thermal, Kinetic, Optical, and Physical Chemistry. Problem domain definition and problem decomposition, Object oriented analysis, and PERT Chart design. Trouble shooting, Team Technical Adjunct, Project Management and Planning, Product Research and Development, Circuit Design and Prototyping, Technical Writing, Teach-

ing and Training.

Date: September 12, 1995

Time: 6:00 PM Meeting

Location: Orlando Public Library, 3rd Floor

Contact: Please make your reservations by contacting: Jorge Medina at (407) 260-1676, E-mail: j.medina@ieee.org, or Peter Hoyles at (904) 737-9686.

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By Gerald C. Holst, an IEEE Orlando Section member, president of JCD Publishing, a technical publishing firm in Winter Park, Florida. Telephone: (407) 629-5370.

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EVENTS CALENDAR

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- Sep 5 IEEE Orlando Section - **EXCOM** - H-P., D. King, (O) 862-9094, (H) 628-4462
Sep 12 **Network Connection '95 3rd Annual Conference & Vendor Exhibits** - Hilton Rialto, Melbourne, J. Sonnenberg (407-727-5718)
Sep 12 IEEE CN - **Member's Presentation: Consulting Practice and Services** - Orlando Public Library, J. Medina, (O) 260-1676
Sep 18-22 **Th. Workshop on Standards for the Interoperability of Distributed Simulations** - Orlando, J. Kearns (O) 658-5095
Sep 20-23 **PDCS '95 - Eighth Int'l Conf. On Parallel and Distributed Computing Systems** - UCF, N. Deo, (O) 823-6336
- Oct 3 IEEE Orlando Section - **EXCOM** - H-P Orlando, D. King, (O) 862-9094, (H) 628-4462
Oct 8-12 IEEE IA - **1995 IEEE Industry Applications Society Annual Meeting** - Hilton at Walt Disney World, E. Lobnitz (O) 841-9050
Oct 10 IEEE CN - **Member's Presentation: Consulting Practice and Services** - Orlando Public Library, J. Medina, (O) 260-1676
- Nov 7 IEEE Orlando Section - **EXCOM** - H-P Orlando, D. King, (O) 862-9094, (H) 628-4462
Nov 14 IEEE CN - **Member's Presentation: Consulting Practice and Services** - Orlando Public Library, J. Medina, (O) 260-1676
- Dec 5 IEEE Orlando Section - **EXCOM** - H-P Orlando, D. King, (O) 862-9094, (H) 628-4462

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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 200 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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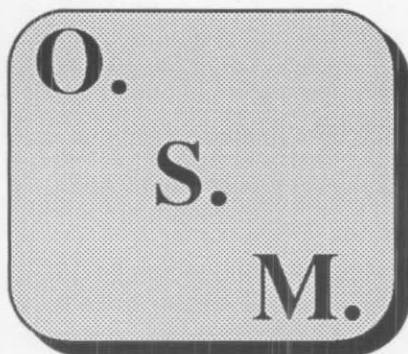
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IEEE

THE ORLANDO SECTION MONTHLY

Volume XXIX, Number 03



The Newsletter of the Orlando Section of the IEEE

October 1995

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.

PACE AND CONSULTANTS' NETWORK JOINT MEETING

Part I: Video Presentation

1995 PACE Conference IEEE Organizational Improvement

Abstract: One of the most vexing problems now confronting the IEEE is its organization. Should it be changed? In what way? Does it need substantial rework? Does it need a complete restructuring? Should it be left alone? All of these options have been proposed, in this presentation, but which is the wisest choice? The IEEE PACE organization invites all IEEE Orlando Section members, especially the Executive Board, Society Chapter Chairmen and the Committee Chairmen to view this discussion and help us build a better IEEE.

Date: Tuesday, October 10, 1995

Time: 6:00 PM - 7:00 PM

Location: Orlando Public Library, 3rd Floor

RSVP: Jorge Medina 260-1676

Part II: Member's Presentation

Consulting Background and Services

Abstract: The IEEE Orlando Consultants' Network is inviting each and every one of its members to present a 15-minute briefing on his or her consulting practice. The following members have been invited to present an overview of their consulting background and services at the October 10 meeting.

Jesse (Jack) J. Killingsworth - Mr. Killingsworth of Digital Innovations, Inc. specializes in Rapid-Time-to-Market development using Field Programmable Gate Arrays (FPGAs), microprocessors, and synchronous design methodology. Digital

Innovations is an approved Xilinx consulting firm. VHDL design expertise available. Experts in the development of embedded computers using Motorola 680X0 and Intel X86 microprocessors. VMEbus and Multibus expertise. Complete Hardware and Software development. Software development for embedded computers with both Assembly, C. High performance real-time applications. Special expertise in Database applications with Paradox and Power Builder. Fixed price proposals and telephone advice at no cost. Clients include Honeywell, AT&T, Lorel, E-Systems, Hewlett-Packard; and many smaller firms.

Kumar P. Singh - Mr. Kumar of K.C. Consulting, Inc. specializes in data communications network design and implementation with over 10 years of engineering experience. Technical project management with responsibility for implementation of LAN and WAN including IBM's SNA, DecNet, Novell IPX, Unix Based TCP/IP. Installation and design skills include FDDI, Ethernet, Token Ring, Frame Relay, ISDN and ATM.

Date: Tuesday, October 10, 1995

Time: 7:00 PM - 8:30 PM

Location: Orlando Public Library, 3rd Floor

RSVP: Jorge Medina 407-260-1676 or Peter Hoyles 904-737-9686

ELECTRON DEVICES/ COMPONENTS, HYBRIDS AND MANUFACTURING TECHNOLOGY

Emerging Process Technology for Sub-quarter Micron CMOS Fabrication

Speaker: Dr. C.K. Huang, AT&T Bell Lab.

Date: Thursday, October 26, 1995

Time: 4:00 PM

Location: UCF, College of Engineering

Contact: Dr. Peter Yuan 823-5719

POWER ENGINEERING/ INDUSTRY APPLICATIONS/ POWER ELECTRONICS

Recent Advances in Power Electronics and Drives

Speaker: Dr. Bimal K. Bose, Condra Chair of Excellence in Power Electronics, Dept. of Electrical Engineering, University of Tennessee.

Date: Tuesday, October 10, 1995

Time: 6:00 PM - 7:30 PM

Location: Seminar Room Engr. 288, College of Engineering, UCF. Refreshments will be served.

Contact: Dr. Issa Batarseh 823-0185.

SIGNAL PROCESSING

Transform Coding of Speech and Images

Speaker: Mr. Al Berg, Lockheed-Martin Corp.

Date: Wednesday, October 11, 1995

Time: 5:30 PM

Location: Room 419, College of Engineering (CEBA1), UCF

Refreshments: Pizza and Soda

Contact: Al Berg 823-0188

ULTRASONICS, FERROELECTRICS, AND FREQUENCY CONTROL

SAW RF Filters for Mobile Communications Applications

Speaker: Dr. Kimon Anemogiannis, Director of Component Engineering, Sawtek, Inc.

Date: Thursday, October 12, 1995

Time: 6:00 PM

Location: Sawtek Inc., 1818 S. Hwy 441, Apopka

Contact: Scott Knapp 886-8860 x 3262

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Mr. Dave King, Section Chairman
CHAIRMAN'S CORNER

Our first executive committee meeting was held at Hewlett Packard on September fifth. The decision was made at this time to continue our regular executive committee meetings at Hewlett Packard. With the ever expanding size of the greater Orlando area comes the problem of finding a meeting place that is convenient for everyone. It is clear that it is impossible find one place that is convenient to all of our members, however Hewlett Packard has been exceedingly gracious to us in the past and they are centrally located with easy access from I-4 and Sand Lake Rd.

As many of you may already be aware, our bulletin board is out of service. Unfortunately the server was hit by a virus just after I placed the assignment in the Section Monthly. I am sorry for the inconvenience that some of you experienced while trying to log into the system. We will get this all straightened out and have a new contest when the server is back on its 'feet.'

The Florida Council met on Saturday, August 26, at the Sprint Headquarters in Altamonte Springs. There was very good attendance from the Florida Sections at this meeting. Our Florida Council is very active and enjoys the status of one of the premier councils in Region 3. This is demonstrated by the fact that our council is the first to establish its own World Wide Web home page. Actually we are even ahead of Region 3 in that aspect. We have a 1 Gigabyte hard drive dedicated to this function. There is a temporary address for this page at www.metrolink.com.

At the IEEE FC meeting it was stressed that IEEE members who are eligible should upgrade their status to senior members. If you have been an active IEEE member for 10 years or more, you should apply for senior member status. You will be recognized with a wooden plaque. You can obtain

the necessary forms from our membership chairman Issa Batarseh. In other news from the Florida Council meeting, the subject of Southcon was raised. It looks like Southcon will be moving to Atlanta in 1997. This was after a very poor showing in Fort Lauderdale this year. The even year conventions will still be located in Orlando.

Florida Council is soliciting for volunteers at all levels. If you have been active in the Section and would like the opportunity to serve at a higher level, please consider this opportunity.

There was considerable discussion about leadership training and ways to 'soup it up'. A couple of ideas were put forth on the subject. The first idea is to create some videos. The second idea is to create a multimedia presentation. It was suggested that the second idea might become the basis for some Region 3 special project money. A committee was formed to look into the matter.

At the section level the chapters are gearing up for another big year. Chapter activities are heating up and technical meetings should be showing up on the calendar. Keep an eye out for speakers of interest. Remember, you do not have to be a chapter member to attend a technical session that is of interest to you. Chapter chairs, please remember to have your budgets prepared for the October meeting.

I would like to remind everyone at this time to be thinking about awards. Who is deserving in your chapter for the chapter award? Perhaps someone you know is deserving of a Section award. We are blessed with an exceedingly rich and talented section. Soon we will be asking for your nominations, please consider this carefully.

Finally, I would like to say a couple of words about Glenn Portz who passed away suddenly this past month. Glenn was known to many of us in the section as a long time friend of the IEEE. In the recent past Glenn had served our section as PACE committee chairman. He cared deeply about the working conditions and status of his fellow engineers and represented our section with dignity at the national level. Glenn was a special person, someone who represented the best of what engineering is all about. Thank you Glenn, for your contribution and for your friendship.

I.E.E.E.

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Picnic baskets are welcome, however glass and alcoholic beverages are prohibited.

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- Sep 28 IEEE AP/MTT - **An Electronic Environment Monitoring System at KSC & CCAFS** - Hewlett Packard, D. Dunn, (O) 857-3235
- Oct 3 IEEE Orlando Section - **EXCOM** - H-P Orlando, D. King, (O) 862-9094, (H) 628-4462
- Oct 8-12 IEEE IA - **1995 IEEE Industry Applications Society Annual Meeting** - Hilton at Walt Disney World, E. Lobnitz (O) 841-9050
- Oct 10 IEEE CN/PACE - **1995 PACE Conference Video : IEEE Organizational Improvement** - Orl. Pub. Lib., J. Medina, (O) 260-1676
- Oct 10 IEEE PE/IA/PEL - **Recent Advances in Power Electronics and Drives** - UCF, I. Batarseh, (O) 823-0185
- Oct 11 IEEE SP - **Transform Coding of Speech and Images** - UCF, A. Berg, (O) 823-0188
- Oct 12 IEEE UFFC - **SAW RF Filters for Mobile Communication Applications** - Sawtek., S. Knapp, (O) 886-8860 x 3262
- Oct 26 IEEE ED/CHMT - **Emerging Process Technology for Sub-quarter Micron CMOS Fabrication** - UCF, P. Yuan, (O) 823-5719
- Nov 7 IEEE Orlando Section - **EXCOM** - H-P Orlando, D. King, (O) 862-9094, (H) 628-4462
- Nov 14 IEEE CN - **Why Bother with Patents in the First Place?** - Orlando Public Library, J. Medina, (O) 260-1676
- Dec 5 IEEE Orlando Section - **EXCOM** - H-P Orlando, D. King, (O) 862-9094, (H) 628-4462
- Dec 12 IEEE CN - **Member's Presentation: Consulting Practice and Services** - Orlando Public Library, J. Medina, (O) 260-1676

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In Memoriam

Mr. Glenn Portz, a Life Senior Member of the IEEE, and PACE Past Chairman of the IEEE Orlando Section passed away this past month. The IEEE Orlando Section extends its sympathy to the Portz family.

Congratulations!

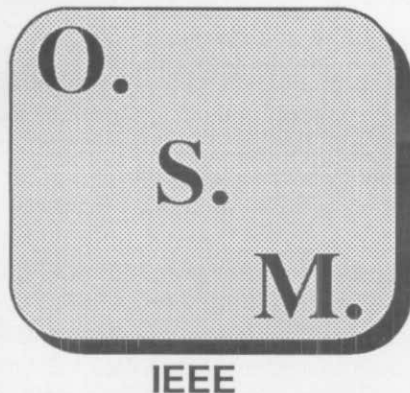
The IEEE Orlando Section extends its Congratulations to Jackie Hines (IEEE Orlando Section Past Chair) and her husband, Andy, on the birth of their daughter, born in September.

WANT TO KNOW WHO HIRES IEEE MEMBERS?

If you are a member of IEEE within Region 3, you can get a list of companies that employ technical professionals in the southeast. All you need to do is send an Internet e-mail to:

empaccess.r03@eng.uab.edu

Use the exact format shown in the May '95 issue. An auto-response file will be sent to you by return e-mail with instructions on how to access the ETI Database.



THE ORLANDO SECTION MONTHLY

Volume XXIX, Number 05



The Newsletter of the Orlando Section of the IEEE

December 1995

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.

The Engineer's Role in National Technology Policy

IEEE-USA 1995 PACE Conference Video Presentation

Sponsor: PACE and Consultants' Network

Abstract: IEEE-USA members are increasingly expressing concern about employment availability, income, and work environment, and they are admonishing IEEE-USA to help them by influencing U.S. technology policy. Corporate downsizing to increase competitiveness and reductions in defense procurement have stressed our members. It is clear that the competitive resurgence of U.S. companies has brought rewards to only a select few of our members. For IEEE-USA to respond to members' wishes and increase its influence on U.S. technology policy as it undergoes unprecedented change requires that our members become political activists at the local level and bring their unique skills to bear on the development of national technology policy. For that to occur, IEEE-USA must shift from an assertion-intensive policy perspective to a knowledge-intensive policy perspective that differentiates IEEE-USA from other lobbying institutions. PACE must accept responsibility for leading members at the local level into politically active roles and helping elevate interest in policy issues on the technical side of IEEE.

Date: Tuesday, December 12, 1995

Time: 6:00 PM - 7:00 PM

Location: Orlando Public Library, 3rd Floor

RSVP: Jorge Medina (407) 260-1676

Consulting Background and Services

Member's Presentation

Sponsor: Orlando Consultants' Network

Abstract: The IEEE Orlando Consultants' Network is inviting each and every one of its members to present a 15-minute briefing on his or her consulting practice. The following members have been invited to present an overview of their consulting background and services at this meeting.

Jay L. Lipeles - Mr. Lipeles of International Dynamics, Inc. provides specialized support, in the analysis and test arenas, to small companies without an in-house specialist and large companies when they are overloaded or need special experience or an outside view. He usually assists with the design to sustain harsh environments or to meet the compatibility requirements imposed by high performance control systems (stiffness, natural frequency or frequency response).

Iraj "Jay" Sardari - Mr. Sardari specializes in analog circuit design, microprocessor based system design from concept to production. Firmware design and development, unit testing, system integration testing and overall design documentation. Digital system design data communication, specially RS485, SCSI, GPIB, FSK. Structured "C" programming, Microsoft Visual C++.

Date: Tuesday, December 12, 1995

Time: 7:00 PM - 8:30 PM

Location: Orlando Public Library, 3rd Floor

RSVP: Jorge Medina (407) 260-1676 or
Peter Hoyles (904) 737-9686

★ 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 is 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

IEEE ORLANDO SECTION

Region 03 Council 05 Section 51

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Neural Network: Dr. M. Georgiopoulos, UCF

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Membership: (Vacant - Volunteer Needed)

(V) 260-1676 -650

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UCF STUDENT BRANCH**Advisor:** Dr. Brian Petrasko, UCF (O) 823-2786**Chairman:** Joe Martinez (H)**SRC:** Chris Rose (H) 657-1755**IEEE ORLANDO INFORMATION CENTER****Voice Mail/Fax:** (407) 260-1676**Fax:** (407) 260-1636; **BBS:** (407) 539-0884**E-mail1:** j.medina@ieee.org,**E-mail2:** sec.orlando@ieee.org*Mr. Dave King, Section Chairman***CHAIRMAN'S CORNER**

As we reach the busiest season of the year, our monthly meetings seem to increase proportionately. It is budget time again for the Orlando Section. Every year we encounter the difficult problem of allocating a budget for the chapters and for the section activities. One might think that we'd have it down by now, but inevitably there is a good deal of discussion that ensues when people start talking about allocating funds. This year we are doing something a little differently for the chapters.

Each chapter will be given matching funds (up to \$500.00) for the amount that the national chapter allocates for that section. If the national chapter does not allocate funds, the chapter will be given a nominal starting budget of \$250.00. This approach was determined by the executive board as the best means to provide oversight of the section budget and limit our exposure. It does not mean that chapter activities will be limited by budget constraints. It does mean that chapter activities will need to be thought out in advance and any special budgetary needs approved prior to implementation. Hopefully this will provide an incentive to plan carefully, but not to curtail chapter activities.

Our plans for engineers week are moving forward. We have a strong student chapter at UCF that is organizing a number of activities including a coordinated table for SRC, Computers and the section students to present their work. Hats off to **Dr. Brain Petrasko** and **Mr. Joe Martinez** for their exceptional leadership in organizing and reinvigorating the student section. **Dr. Dave Flinchbaugh** is organizing the professional activities associated with engineers week through the strategic planning committee. We will be sending a candidate for outstanding engineer to the banquet and Dave will represent

our section at this event.

We are also making plans to fund student involvement in national and international competitions in robotics. The student section has been extremely active in this area. In addition we are looking into partially funding the initiation of a student IEEE library which can be used to house the Internet robot game, the bulletin board, our IEEE video library (one of the largest in the world) and the various robotic projects that are ongoing including the micromouse and the UAV. I think you can see that these are exciting times within the section.

I would like to spend a moment to discuss membership. There are two things that everyone should take note of. First the Regional Activities Board has recently announced an Industry Partnership Program. This program is designed to allow industry partners to sponsor the IEEE to visit their location and explain the benefits of IEEE membership to their employees. IEEE memberships is a win-win-win situation. The individual benefits, the employer benefits and IEEE benefits. Please make an effort to bring this message forward to your peers as we home in on engineers week this year. Also please be aware that leadership opportunities exist within this section and throughout the IEEE. I am personally predicting an engineering renaissance to take place within the next five years. Economic conditions are starting to come about now for this eventuality. Take advantage of the opportunity to be a leader in the world changing all around us.

Finally, I am happy to report that the recent NTC conference was successful. We should be receiving our seed money back from this conference. The IAS conference that completed recently was even a bigger success! The Orlando section is extremely proud of its role in these special events. Thanks to all of you who volunteered your service in these efforts.

A final thought: "There are no uninteresting things.. Only uninterested people." G.K. Chesterton. Take care and Godspeed.

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

The Orlando Section

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

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

Please Return Form by 1/15/96
 To: Dr. Parveen Wahid
 10527 Via Del Sol
 Orlando, FL 32817

2. NOMINEE: _____

Professional Affiliation and Title: _____

Current Address: _____

Work Phone: () _____ Home Phone: () _____

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

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

5. SUBMITTED BY: _____

IEEE Position and Grade: _____

Current Address: _____

Work Phone: () _____ Home Phone: () _____

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

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

A. Name:

Position/Title:

Address:

City/ZIP/Phone:

B. Name:

Position/Title:

Address:

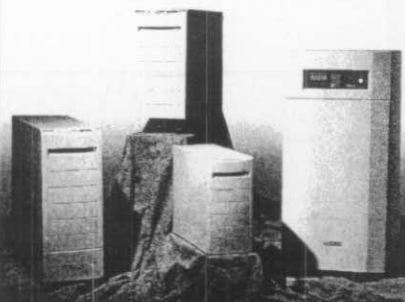
City/ZIP/Phone:

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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EVENTS CALENDAR

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E-mail: j.medina@ieee.org or sec.orlando@ieee.org

- Dec 5 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, D. King, (O) 862-9094, (H) 628-4462
Dec 12 6:00 PM IEEE PACE/CN - **The Engineers' Role in National Technology Policy** - Orlando Public Library, J. Medina, (O) 260-1676
Dec 12 7:00 PM IEEE CN - **Member's Presentation: Consulting Practice and Services** - Orlando Public Library, J. Medina, (O) 260-1676

Jan 2 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, D. King, (O) 862-9094, (H) 628-4462
Jan 9 6:00 PM IEEE PACE/CN - **Change and Challenge: An Industry Perspective** - Orlando Public Library, J. Medina, (O) 260-1676
Jan 9 7:00 PM IEEE CN - **Member's Presentation: Consulting Practice and Services** - Orlando Public Library, J. Medina, (O) 260-1676

Feb 6 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, D. King, (O) 862-9094, (H) 628-4462
Feb 13 6:00 PM IEEE PACE/CN - **In Pursuit of a Resilient Career** - Orlando Public Library, J. Medina, (O) 260-1676
Feb 13 7:00 PM IEEE CN - **Member's Presentation: Consulting Practice and Services** - O.P.L., J. Medina, (O) 260-1676
Feb 24 8:00 AM IEEE CN - **The 5th National AICN Workshop on Consulting Engineering** - Orlando, J. Medina, (O) 260-1676

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 200 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
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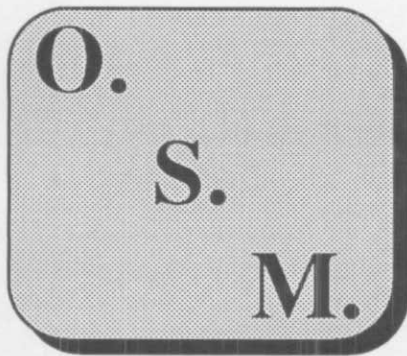
CALL FOR PAPERS

The 5th National AICN Workshop on
Consulting Engineering
February 24, 1996 - Orlando, Florida

Consultants are invited to submit full papers on related topics in consulting engineering. Please submit a 50-100 word abstract by December 5th, to Program Chairman:
Jorge Medina

P.O. Box 521917, Longwood, FL 32750
E-mail: j.medina@ieee.org, Tel: (407) 260-1676

CONSULTING GROUP
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FRANK FLUET OR
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IEEE

THE ORLANDO SECTION MONTHLY



The Newsletter of the Orlando Section of the IEEE

January 1996

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.

Cyber Space and Worldwide Web

Sponsor: Computer Chapter
Speaker: Professor Hal Berghel, Distinguished Lecturer, University of Arkansas
Date: Tuesday, January 9, 1996
Time: 4:30 PM - 5:30 PM (Snacks/Pizza served at 4:00 PM)
Location: CC II, Room 102, UCF
Contact: U. Vemulapati 823-2638

Overview of CCTT's Unit Level Router

Sponsor: Computer Chapter
Speaker: Eric Root, SAIC, Orlando
Date: Tuesday, January 23, 1996
Time: 6:00 - 7:00 PM (Snacks/Pizza served at 5:45 PM)
Location: CC II, Room 102, UCF
Contact: U. Vemulapati 823-2638

Change and Challenge: An Industry Perspective

IEEE-USA 1995 PACE Conference Video Presentation

Sponsor: PACE and Consultants' Network
Speaker: Kent M. Black, Rockwell International Corporation
Date: Tuesday, January 9, 1996
Time: 6:00 PM
Location: Orlando Public Library, 3rd Floor, Magnolia Room.
RSVP: Jorge Medina (407) 260-1676

TWC 500 Channel Fiber Optic Cable Project

Sponsor: PE/IA/PEL Chapters
Program: Time Warner Cable's full service fiber optic network in Longwood is the first digital, switched, interactive broadband com-

munication network in the United States. The presentation will include a tour of the network operations center and an overview of the network and software.

Speaker: Ms. Yvette M. Gordan, Director of Full Service Network System Software, time Warner Cable.

Date: Tuesday, January 16, 1996

Time: 7:00 PM for Technical Meeting

Location: Time Warner cable, 2251 Lucien Way, Suite 100, Maitland, Florida

Contact: Gary Engmann 858-5500

Note: If you are interested in dinner there is an Olive Garden near Timer Warner Cable where some members will be meeting prior to the presentation.

Implementation of a Stereo Graphic Equalizer Using the Motorola DSP56002

Sponsor: Signal Processing Chapter
Speaker: Sean Erickson, UCF Dept. of Electrical and Computer Engineering
Date: Wednesday, January 24, 1996
Time: 5:30 PM
Location: Engineering Bldg. (CEBA1) Room 419, UCF
Refreshments: Pizza and soda.
Contact: Al Berg 365-2214

Medical and Biological Imaging with High Frequency Ultrasound

Sponsor: UFFC Chapter
Speaker: F. Stuart Foster, UFFC Distinguished Lecturer
Date: Monday, January 22, 1996
Time: 6:00 PM
Location: Sawtek Inc., Apopka
Contact: Scott Knapp 884-3362. Please RSVP by January 18, 1996.

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Happy New Year to all! For our Section 1995 has been a year of change and adjustment. Certainly there are reasons to be optimistic that the future will be bright as our profession moves into 1996. Perhaps one of the best reasons for optimism is the increasing job market and the shift in engineering jobs from the military and government base to the commercial and industrial sectors. Certainly the stock market indicates a bright new year, despite the downturn of some indicators. At the section level, we are poised to do good things.

Our revenues will be up in 1996 thanks to the IAS conference. We have begun the work of preparing for SouthEastCon '98. Our student sections are growing and their activity levels are up with great plans for a new student library and more robotic and computer activities. We have an outstanding series of national distinguished lecturers lined up for early in 1996. Membership is once again on the rise. Our chapter activities are increasing in most areas. There is much to be optimistic about.

One thing that I am personally excited about is the opportunity for our section to do something meaningful for secondary education. I have recently received two literature packages that outline volunteer programs for educational partnerships to allow professionals to become involved in secondary education. As the headlines come out with reports of violence, gang activities, and drugs in our schools, I can't help but think that we have a real opportunity to make a difference in the lives of our own children. I would like to initiate a volunteer program through our section to provide this outlet for our members who are inclined and can make the time to do something to help educate our children.

Please feedback your inputs to your local chapter chairman. Let's start talking about this idea. Did you know that there is a 'magnet' program at Edgewater High for a technology curriculum? Did you know that University High has an award winning 'space shuttle' program? Just a small investment of your time can make a huge difference in the lives of some kids. If you are interested in this idea please let it be known. Call me or talk to your chapter chair. Get involved.

Your chapter chair has an instruction sheet on using the IEEE voice mail system. This is an excellent way to communicate with your chapter or with the section. The section has recently approved new budget to convert the BBS system to an internet BBS and to create the Orlando Section homepage. There will be a robotic experiment associated with the homepage.

This year our own past chairman **Dr. Don Malocha** is serving as president of the UFFC national society chapter. Dr. Malocha is following in the footsteps of many distinguished Orlando IEEE members who have propelled our section to prominence by their outstanding service and dedication. Congratulations Don!

As 1995 draws to a close, perhaps we can look back at all the things we have accomplished this past year and take a moment to give thanks to those whose voluntary efforts have helped our section to become prominent in the pursuit of excellence. We should all be thankful that we enjoy a strong professional society in one of the worlds premier locations. Consider for a moment whether it might be time for you to take a more active role in your professional life. We are all familiar with the phrase 'born leader'. Perhaps we've become so familiar with it that we've forgotten that there's no such thing. Leaders are developed through lots of little efforts that sum up to a substantial contribution. If you have never been involved in the leadership of the IEEE, why not start talking to your chapter chair about how you can help?

*Our warmest wishes for
this holiday season and
throughout 1996!*

The IEEE Orlando Section

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

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 _____ Outstanding Service Award
 _____ Outstanding Entrepreneur Award

Please Return Form by 1/15/96
 To: Dr. Parveen Wahid
 10527 Via Del Sol
 Orlando, FL 32817

2. NOMINEE: _____

Professional Affiliation and Title: _____

Current Address: _____

Work Phone: () _____ Home Phone: () _____

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

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

5. SUBMITTED BY: _____

IEEE Position and Grade: _____

Current Address: _____

Work Phone: () _____ Home Phone: () _____

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

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

<p>A. Name: _____</p> <p>Position/Title: _____</p> <p>Address: _____</p> <p>City/ZIP/Phone: _____</p>	<p>B. Name: _____</p> <p>Position/Title: _____</p> <p>Address: _____</p> <p>City/ZIP/Phone: _____</p>
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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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When using Toshiba's 1400 Plus Series UPS, you will be totally isolated, but never alone, with true on-line performance, total protection and unmatched reliability.

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E-mail: j.medina@ieee.org or sec.orlando@ieee.org

- Jan 2 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 862-9094, (H) 628-4462
Jan 9 4:30 PM IEEE Computer - **Cyber Space and Worldwide Web** - UCF, CCII, Room 102, U. Vemulapati, (O) 823-2638
Jan 9 6:00 PM IEEE PACE/CN - **Change & Challenge: An Industry Perspective** - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
Jan 16 7:00 PM IEEE PE/IA/PEL - **TWC 500 Channel Fiber Optic Cable Project** - Timer Warner Cable, G. Engmann 858-5500
Jan 22 6:00 PM IEEE UFFC - **Medical & Biological Imaging with High Frequency Ultrasound** - Sawtek, S. Knapp, (O) 884-3362
Jan 23 6:00 PM IEEE Computer - **Overview of CCTT's Unit Level Router** - UCF, CCII, Room 102, U. Vemulapati, (O) 823-2638
Jan 24 5:30 PM IEEE SP - **Implementation of a Stereo Graphic Equalizer Using the Motorola DSP56002** - UCF, A. Berg (O) 365-2214
Feb 6 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 862-9094, (H) 628-4462
Feb 13 6:00 PM IEEE PACE/CN - **In Pursuit of a Resilient Career** - Orlando Public Library, 3rd. Floor, J. Medina, (O) 260-1676
Feb 13 7:00 PM IEEE CN - **Member's Presentation: Consulting Practice and Services** - O.P.L., J. Medina, (O) 260-1676
Feb 24 8:00 AM IEEE CN - **The 5th National AICN Workshop on Consulting Engineering** - Orlando, J. Medina, (O) 260-1676

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 200 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)
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3/4 Page	8 x 7.5	\$255	\$225
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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
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CALL FOR PAPERS

The 5th National AICN Workshop on
Consulting Engineering
February 24, 1996 - Orlando, Florida

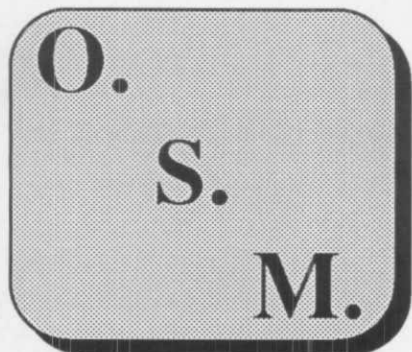
Consultants are invited to submit full papers on related topics in consulting engineering. Please submit a 50-100 word abstract by January 5th, to Program Chairman:
Jorge Medina

P.O. Box 521917, Longwood, FL 32750
E-mail: j.medina@ieee.org, Tel: (407) 260-1676

POSITIONS AVAILABLE

Digital & Analog ASIC Designers: 5 yr. min. exp. Familiar with Viewlogic, P-Spice and Cadence design tools a plus. High speed digital logic utilized in communications and DSP. HF to S-Band design work for radio systems. **RF Design Engineers** with min 5 yr ASIC design exp. Familiar with Super Star, Omnisys, P-Spice a plus. Work from HF to S-band available. **Software Engineers:** 5 yr min design exp. for embedded core processor applications desired. C-Code experience and proficiency required. BSEE a plus, communications application background a plus. **PCB Layout Technician:** Familiar with PADS PCB tools and RF layout exp. required.

Please fax resumes to (407) 260-2985



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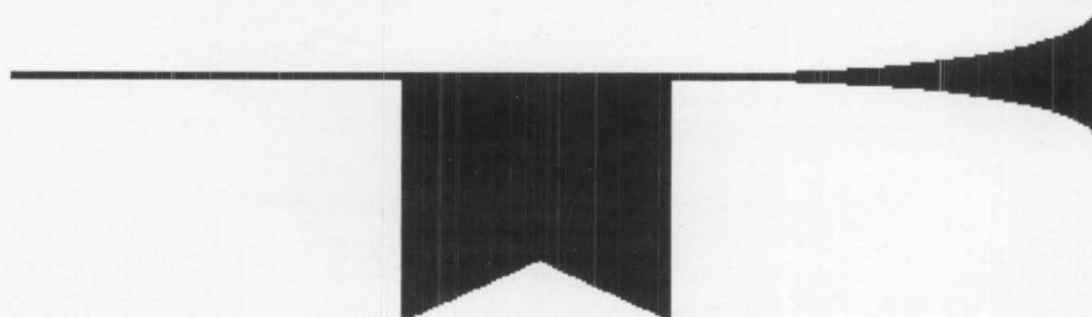
THE ORLANDO SECTION MONTHLY

Volume XXIX, Number 07



The Newsletter of the Orlando Section of the IEEE

February 1996



IEEE Awards Banquet

Saturday, February 24, 1996

University Dining Room

at the UCF Student Center

6:00 PM Cash Bar

7:00 PM Dinner and Presentations

Choice of Entrees:

Sliced Tenderloin of Beef

with peppercorn rosemary glaze

or

Grilled Salmon Steak with Apricot Glaze

\$20.00 per person

RSVP: Kalpathy Sundaram 823-5326

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Mr. Dave King, Section Chairman

CHAIRMAN'S CORNER

Welcome back and happy new year to everyone. It was an exceptionally busy holiday season and everyone is glad to get back to the normal routine. We are preparing for our annual awards banquet and this year we have a surprising twist. The price of our banquet will actually be going down while maintaining the same high quality. I hope that many of you will consider coming to the banquet even though you may not be receiving an award. It would be great if all of the chapter officers could make it this year. Please make an effort to attend since this is our largest formal social event of the year.

It is the time of year when the section must send its final report in to national headquarters. If there are any outstanding chapter meeting notices for 1995, please send them to **Dr. Christos Christodoulou** as soon as possible.

As we begin the new year we should think of the beginnings that we see taking place around us. Some beginnings seem more auspicious than others. The new year looks promising for emerging technologies such as internet, communications, consumer electronics and industrial automation. The new year seems less auspicious for other beginnings.

The beginning of the legislative year, for example, is bringing us a measure that, according to the IEEE Legislative Report dated December 18th "makes 'seismic' changes in pension law by allowing employers

to withdraw 'excess assets' from existing defined benefit pension plans." The report goes on to quote Rep. Harris Fawell (IL), "so-called excess assets can be withdrawn from a pension trust even by employers in bankruptcy who can then terminate the plan with no guarantee the remaining assets will be sufficient to pay for all benefits." Hmmm. Doesn't take a highly skilled professional to figure out who that might not benefit. It may be time for that letter to our congressional representatives.

On the home front, there is a movement afoot to revitalize secondary education. I have received a file full of data from agencies and foundations all over. There are a wealth of resources available to those willing to participate in the greatest investment of all - education. It is a dream that I feel many of us share - the dream to see our children take an interest in the miracle of modern science.

A revolution is taking place in industry and in the home. Educational software for children is being ripped off the shelves by parents who have discovered that their children are far more fascinated by the computer than by television. The internet is accelerating the trend toward a 'networked society' where electronic highways are slowly but surely replacing concrete ones as the medium of travel. More of our lives are being spent in the virtual domain of cyberspace.

At the same time, we see a disturbing trend towards violence in the schools. We hear reports of 'classes out of control' and a general decline of standards. It causes one to wonder "what can we do to turn things around?"

I recently accepted the position of Region 3 PACE coordinator for pre-education. I will be contacting local schools to see what types of volunteer program we can set up. If you are interested in participating, please contact myself or any of our section committee members.

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.

GETTING STARTED WITH ASYNCHRONOUS TRANSFER MODE (ATM)

Video Presentation

Sponsor: Consultants' Network

Host: Dr. John McQuillan

Program: This video presentation was created as part of an industry-wide initiative to help potential users and decision makers understand why, how and when to get started with ATM. The program presents both the business and technical case for ATM in a credible, solutions-oriented format. Getting Started with ATM will save you hours of research and analysis in your evaluation and implementation of this key broadband networking technology.

Part I - Executive Introduction:

- The business context for advanced networking and ATM
- The problems with today's networks
- The consensus for ATM
- ATM overview
- The benefits of ATM

Part II - Technical Presentation

- What is ATM
- The complete ATM solution
- What ATM can do for you
- How ATM works in your network environment
- How to tell when ATM is right for you
- Evolution to ATM

Date: Tuesday, February 13, 1996

Time: 6:00 - 7:00 PM

Location: Orlando Public Library, 3rd Floor, Magnolia Room.

RSVP: Jorge Medina (407) 260-1676

CONSULTING BACKGROUND AND SERVICES

Member's Presentation

Sponsor: Orlando Consultants' Network

Program: The IEEE Orlando Consultants' Network is inviting each and every one of its members to present a 15-minute briefing on his or her consulting practice. The following members have been invited to present an overview of their consulting background and services at this meeting.

Dr. David E. Flinchbaugh - Dr. Flinch-

baugh of Technology Consulting Center has been a designer, developer and team manager for IBM computer solid-state components, United Technologies Laser Radar and Communications System, Navy Sonar Signal Processors, Air Force Radar Pulse Compression Subsystems, Sperry gun electro-optical aiming & control system, Westinghouse nuclear service manipulator arm, McDonnell-Douglas composites manufacturing, missile assembly and rework systems, Systems reliability & Safety, Power Utility Environmental Officer for Clear Air Act & Clean Water Act Monitoring & Compliance, Murray Corp. Optical & Ultrasonic Instrumentation for Automotive Service Centers. Certified Manufacturing Engineer, Certified Environmental Specialist, Ph.D. Physics Degree, Computer Database Management, Registered Professional Engineer. Union College, Case Institute, U. of Conn., Harvard, plus management continuing education.

Date: Tuesday, February 13, 1996

Time: 7:00 PM

Location: Orlando Public Library, 3rd Floor, Magnolia Room.

RSVP: Jorge Medina (407) 260-1676

PANEL DISCUSSION ON POWER ENGINEERING EDUCATION

Sponsor: PE/IA/PEL Chapters

Program: The objectives of this panel discussion are:

- 1) Address the status of power engineering/power electronics education in the U.S.,
- 2) Address the local and national needs of both the industry and universities for power engineers,
- 3) Suggest some recommendations to improve power engineering curriculum at UCF.

This activity will be carried out during the Engineering Week at UCF. Students, faculty and guests are invited to attend.

Date: Tuesday, February 20, 1996

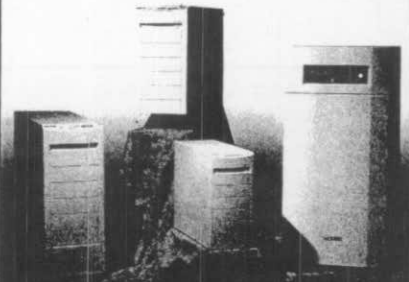
Time: 5:00 - 7:00 PM

Location: College of Engineering, University of Central Florida

Contact: Ms. Susan Hawasly, 824-5022

Note: Pizza and refreshments will be served.

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- Jan 24** 5:30 PM IEEE SP - **Implementation of a Stereo Graphic Equalizer Using the Motorola DSP56002** -UCF, A. Berg 365-2214
- Feb 6** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496, (H) 628-4462
- Feb 13** 6:00 PM IEEE CN - **Getting Started with Asynchronous Transfer Mode** - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
- Feb 13** 7:00 PM IEEE CN - **Member's Presentation: Consulting Practice and Services** - O.P.L., J. Medina, 260-1676
- Feb 20** 7:00 PM IEEE PE/IA/PEL - **Panel Discussion on Power Engineering Education** -UCF, College of Engr., S. Hawasly 824-5022
- Feb 24** 8:00 AM IEEE CN - **5th National AICN Workshop on Consulting Engineering** - Ramada Inn (SR 50) Orlando, J. Medina, 260-1676
- Feb 24** 8:00 AM IEEE Orlando Section - **Awards Banquet** - UCF Student Center, University Dining Room, Dr. K. Sundaram 823-5326
- Mar 5** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496, (H) 628-4462
- Mar 12** 6:00 PM IEEE PACE/CN - **In Pursuit of a Resilient Career** - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
- Mar 12** 7:00 PM IEEE CN - **Member's Presentation: Consulting Practice and Services** - O.P.L., J. Medina, 260-1676

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5th National AICN Workshop on Electrotechnology Consulting Engineering February 24, 1996 - Orlando, Florida

The IEEE Consultants' Network of Orlando presents a one-day workshop for both new and experienced consultants. Invited experts from across the nation share their techniques.

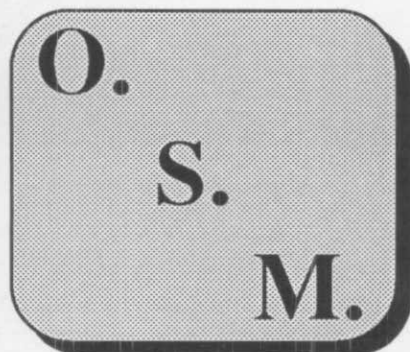
For more information please contact : Jorge Medina
Tel: (407) 260-1676, Fax: (407) 260-1636
E-mail: j.medina@ieee.org

Sponsored by IEEE-U.S. Activities Board and the Alliance
of the IEEE Consultants' Network.

POSITIONS AVAILABLE

Digital & Analog ASIC Designers: 5 yr. min. exp. Familiar with Viewlogic, P-Spice and Cadence design tools a plus. High speed digital logic utilized in communications and DSP. HF to S-Band design work for radio systems. **RF Design Engineers** with min 5 yr ASIC design exp. Familiar with Super Star, Omnisys, P-Spice a plus. Work from HF to S-band available. **Software Engineers:** 5 yr min design exp. for embedded core processor applications desired. C-Code experience and proficiency required. BSEE a plus, communications application background a plus. **PCB Layout Technician:** Familiar with PADS PCB tools and RF layout exp. required.

Please fax resumes to (407) 260-2985



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THE ORLANDO SECTION MONTHLY



The Newsletter of the Orlando Section of the IEEE

March 1996

Meeting Announcements

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STRUCTURING YOUR CONSULTING FEES FOR PROFIT

Sponsor: Consultants' Network

Abstract: A discussion of the different consulting compensation methods will be presented. One part of this presentation will be a summary of the 1995 survey of fees charged by our members. We have asked all our Region 3 members who have served clients during the 1994-1995 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, March 12, 1996

Time: 6:00 PM

Location: Orlando Public Library, 3rd Floor, Magnolia Room.

Contact: Jorge Medina 260-1676

E-Mail: j.medina@ieee.org

MACHINE VISION APPLICATIONS

Sponsor: Signal Processing

Speaker: Mr. Dave King, Computer Systems Engineering Corp.

Date: Wednesday, March 13, 1996

Time: 5:30 PM

Location: University of Central Florida, Engineering Bldg. (CEBA1) Room 419

Refreshments: Pizza and Soda

Contact: Al Berg 365-2214

THE REGION 3 BULLETIN BOARD SYSTEM

Please Note the Area Code Change!

The basis for the BBS is to make information available to those of our members who have a computer and a modem, but not necessarily email or internet access. Region 3 has a toll free number (1-800-555-REG3) for those members living within Region 3, and members from outside the region are welcome to access it at 770-446-0740. We have had members call from all states within Region 3, as well as some calls from Connecticut, New Mexico and from as far away as Iran!

The BBS includes Institute and Region information, as well as having menu space for Region 3 entities (areas/councils, sections, chapters, student branches, etc.) to post information. The text of many of the Institute publications are available (awards, manuals, newsletters, bulletins, alerts, etc.) and information sent out by IEEE-USA/USAB via email is posted there, also.

The biggest draw is the employment section. In addition to downloading the USAB job postings, we have many other Region 3 employment opportunity listings. The Region during the fourth quarter 1995 mailed 2,000 letters to employers of engineers in the Southeast, inviting them to post their job openings on the BBS free of charge.

When you have a few minutes, log-on and browse the BBS, you will be pleasantly surprised at the breath of information available. If you would like information on how you can utilize the BBS for your Region 3 organization contact the Sysop at v.powers@ieee.org.

REGION 3 AUTOMATED CONSULTANTS' NETWORK

The Georgia Institute of Technology (GaTech) IEEE Student Branch Chairman, Mr. John Elmore successfully demonstrated completion of Phase 1 major milestones for the Region 3 Automated Consultants' Network (ACN) on December 23 at the GaTech campus IEEE office. The ACN will allow clients to search via key words, tag and download files of consultants templates in the database. Phase 2, January 1996 will consist of a four month debug and enhancement activity and then a six month pilot program which will be available to Region 3 consultants. Phase 3, January 1997 will make the ACN available to IEEE Consultants nationwide. For further information on the ACN contact Vernon Powers at (770) 449-6161 or v.powers@ieee.org.

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Mr. Dave King, Section Chairman

CHAIRMAN'S CORNER

I have just returned from Washington DC where the IEEE precollege education committee met to review our progress to date and plan for future activities. The precollege education committee is under the USAB and is specifically aimed at improving Math, Science and Technology (MST) literacy in the US. This is distinct from the idea of enhancing MST education where perhaps 5 to 10 percent of K through 12 grade individuals are heading toward careers in engineering, math and science. Standards play a large role in this effort. Interestingly, there is a movement afoot to actually increase or improve standards. Volunteerism also plays a role in this effort.

I am planning to give a short address to each chapter on this subject of vital interest to our nation. I think you will be interested to hear what is happening at the local, regional and national level to intervene in what many regard as a threat to our competitive capability due to MST illiteracy.

I have asked our chapter chairs to invite all the officers from each chapter to our awards banquet this year. If you are a chapter officer and you have not yet made reservations, please call Dr. Sundaram right away. This banquet is really our single most important social event of the year. It is most appropriate to show our support for our chapters and for the engineers who have made many sacrifices to excel in their chosen fields.

Southeastcon is in Tampa this year. Some of the section officers will be attending the conference specifically with the idea of gleaning information on what it takes to run the conference since that is what our section will be doing in 1998. Right now, Southeastcon is looking for corporate sponsors for the exhibit. This is an urgent request, so please - if you know of a potential corporate sponsor contact myself or anyone at the executive board so we can follow up.

The section is looking for someone who can provide leadership in the role of public relations and membership development. If you know of a likely candidate or if you are willing to volunteer, please get in touch.

The section home page is up and running. The students have done a terrific job setting this page up. It has a number of advanced features and looks great. The url for this page is <http://www-ece.engr.ucf.edu/~ieee>.

Engineers week is almost upon us. This year engineers week occurs on February 18 through 24 and culminates with the Florida Engineering Society banquet. Unfortunately we scheduled our awards banquet for the same night, which happens to coincide also with the Consultants Network Workshop. Ah, the best laid plans of mice and men...

As we home in on engineers week this year, give a thought to the blessings we are endowed with. A lively vocation in a free country with the opportunity to take part in an era of unprecedented scientific growth and development. These are exciting times with lots of reason for optimism.



Expert Choice, Inc. Announces New Expert Choice 9.0 for Windows™!

Expert Choice, Inc., in Pittsburgh, Pennsylvania, has released Expert Choice 9.0 for Windows™, decision support software with enhanced capabilities for Windows™ and Windows™ '95.

Based on the Analytical Hierarchy Process (AHP) developed at the Wharton School of Business by Dr. Thomas L. Saaty, Expert Choice was designed by Dr. Ernest Forman as a tool to facilitate fast, accurate and efficient decision making by structuring problems in a hierarchy of goals, decision variables and alternatives. By comparing the variables to derive ration scale priorities, users are able to see the relative importance of the factors in relation to each other and to their goals. The priorities of the alternatives can also be used as evaluation measures. Expert Choice changes the often subjective nature of decision making into a form that can be objectively evaluated, modified and documented.

The software features a new structuring module with a drag and drop facility to assist users in building models, enhanced notes screens, group decision support, a questionnaire generator, customized reports, the ability to import data from spreadsheets, and a new folder style for displaying the hierarchy.

Expert Choice software is currently being used in hundreds of business, government, military and educational decision applications including: resource allocation, research and development, project prioritization, strategic planning, total quality management, mergers and acquisitions, cost/benefit analysis; and evaluations and measures of performance.

The single user version of the software is \$595. Academic discounts are available. The student version is \$30 and a free trial version can be downloaded from the Internet at <http://ahp.net/www/ahp/>. To order or ask questions concerning Expert Choice 9.0 for Windows™ call Expert Choice, Inc. at (412) 682-3844 or FAX (412) 682-7008.

Fourth International Symposium on the Analytic Hierarchy Process

Vancouver, British Columbia
CANADA

July 13-15, 1996

INVITATION

The Fourth International Symposium on the Analytic Hierarchy Process will be held in Vancouver, Canada, at Simon Fraser University's Burnaby Mountain Campus. The Analytic Hierarchy Process for decision making is a way to measure intangibles and thus make it possible to deal with all aspects of a decision within a hierarchic structure. The sessions will commence immediately after the conference of the International Federation of Operational Research Societies (IFORS '96, July 8-12). Papers presented at the symposium will be from academics who are advancing knowledge on AHP techniques and from practitioners who are using that knowledge.

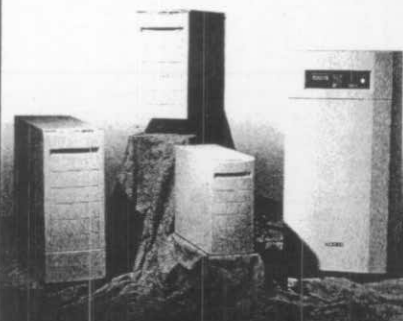
Vancouver is noted for its beautiful scenery, cleanliness, and year round recreational activities. It is Canada's gateway to the Orient and the departure point for Alaskan cruise ships. Stimulating side trips can be taken to Whistler, Seattle, Victoria, the Gulf Islands, and the Canadian Rockies. July is one of the most desirable months to visit Vancouver, so start your planning now.

Some papers will be invited from prominent researchers and practitioners. Contributed papers will be selected for presentation based upon a blind review process. Some of the papers from the conference proceedings will be considered for publication in a future issue of a prestigious journal.

Paper reviewers and session chairs will be needed for a successful program. Please contact the Program Chair, Dr. William Wedley, to indicate your willingness to assist. All program participants must register for the conference within 15 days of their notification to participate.

William C. Wedley
ISAHP IV Chairperson
Faculty of Business Administration
Simon Fraser University
Burnaby, B.C.
CANADA, V5A 1S6
Telephones: office: (604) 291-4528, fax: (604) 291-4920, Electronic Mail: wedley@sfu.ca

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EVENTS CALENDAR

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E-mail1: j.medina@ieee.org - E-mail2: sec.orlando@ieee.org

- Feb 24** 8:00 AM IEEE CN - 5th National AICN Workshop on Consulting Engineering - Ramada Inn (SR 50) Orlando, J. Medina, 260-1676
Feb 24 6:00 PM IEEE Orlando Section - Awards Banquet - UCF Student Center, University Dining Room, Dr. K. Sundaram 823-5326
- Mar 5** 6:00 PM IEEE Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496,, (H) 628-4462
Mar 11-15 IST/UCF - 14th Workshop on Standards for Interoperability of Distributed Simulations - Orlando, R. Freeman 658-5033
Mar 12 6:00 PM IEEE CN - Structuring Your Consulting Fees For Profit - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
Mar 13 5:30 PM IEEE SP - Machine Vision Applications -UCF, Engr. Bldg. (CEBA1) Room 419, A. Berg 365-2214
- Apr 2** 6:00 PM IEEE Orlando Section - EXCOM - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496,, (H) 628-4462
Apr 9 6:00 PM IEEE PACE/CN - In Pursuit of a Resilient Career - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
Apr 11-14 IEEE Region 3/FWC - SouthEastCon '96 - Hyatt Regency Tampa, Tampa, FL, J. Howard (813) 228-4653
Apr 21-24 IEEE C - 9th SEI Conference on Software Engineering Education - Daytona Beach, FL, N. Mead (412) 268-5756
Apr 23-26 IEEE C - 4th International Conference on Software Reuse - Hotel Royal Plaza, Lake Buena Vista, FL (304) 293-3607

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 200 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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POSITION AVAILABLE

APPLICATIONS ENGINEER

SIGTEC AMERICA - leader in Mobile Radio communications, is seeking an applications engineer to work as part of the team in achieving target sales goals and product/customer support, with excellent technical abilities in the area of Mobile Radio and general Telecommunications.

Forward resume to:
SIGTEC AMERICA
1555 Howell Branch Road, Suite 220
Winter Park, Florida 32789
FAX: (407) 628-5820

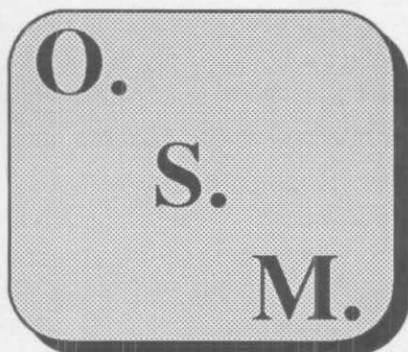
POSITIONS AVAILABLE

RF ENGINEERS

Optronic Laboratories - leader in full spectrum optical radiation measurement instrumentation, is seeking degreed professionals with hands-on experience in RF Power Amplifier Design 25MHz to 300MHz, 1-100 Watts.

Forward resume to:

Dir. of Engineering
Optronic Laboratories
4470 35th St.
Orlando, FL 32811



IEEE

THE ORLANDO SECTION MONTHLY



The Newsletter of the Orlando Section of the IEEE

April 1996

IEEE ORLANDO SECTION 1996 AWARDS BANQUET

The 1996 Orlando Section Awards Banquet was held at the University of Central Florida Dining Room on February 24, 1996. 45 members and guests attended this function. Three Section, seven Chapter Engineer-of-the-Year and six student awards were presented.

Student Awards

Each year the Section presents awards to an outstanding undergraduate and graduate student from the Electrical and Computer Engineering Department. The award winners this year were:

Outstanding Undergraduate Student in
ECE

Ms. Laurine Muzzey

Outstanding Graduate Student

Mr. Yun Yue

The Computer Society Chapter and the Systems, Robotics and Controls Society Chapter each have a student chapter. The students selected to receive the awards for these chapters were:



Outstanding Undergraduate and Graduate Student
Award Recipients

Outstanding Undergraduate Student in
COMP:.....**Ms. Janet L. Robinson**
Outstanding Graduate Student in COMP
Mr. Keith O. Hunter

Outstanding Undergraduate Student in
SRC:.....**Mehmet Avcioglu**
Outstanding Graduate Student in SRC
Mr. Larry Gaber

Chapter Engineer-of-the- Year Awards

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 were the award winners for 1996:

AP/MTT.....**Dr. Parveen Wahid**
COMP**Mr. Robert Sadowiczak**
CN**Mr. Edward Tuttle**
ED/CHMT**Dr. K. Sundaram**
PE/IA/PEL **Mr. Robert Danner**
SP..... **Dr. Takis Kasparis**
UFFC.....**Mr. Michael Howard**

Orlando Section Awards

The Orlando Section Outstanding Engineering Educator award was presented to **Dr. Zhihua Qu** of the Electrical and Computer Engineering department at the University of Central Florida. This award is designed to recognize the member's academic contributions that have enhanced the engineering profession. The Outstanding Service Award was pre-

sented to **Dr. Ratan Guha** of the Computer Science department at UCF in recognition of his many years of service to IEEE at the local and Region level and for his service to the profession and the community. The Outstanding Entrepreneur Award was given to **Mr. Ed Lobnitz**, Chairman of the Board at Tilden, Lobnitz and Cooper. He was recognized for his outstanding contributions to his field through his firm and for his service to the IEEE.

Dr. Parveen Wahid, Section Awards Chairman, prepared all the certificates and plaques that were presented and served as Master of Ceremonies. **Dr. Kalpathy Sundaram**, Vice Chairman and Programs Chair, was responsible for all the arrangements for the banquet and was the photographer for the evening. Special thanks go out to them for making the evening a success. In addition, the Section would like to thank all the Chapter Chairs and the Awards Committee for their help in providing the nominations and in helping make the selections for the Section 1996 Awards.



Chapter Engineer-of-the-Year and Outstanding
Orlando Section Award Recipients

IEEE ORLANDO SECTION

Region 03 Council 05 Section 51

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Mr. Dave King, Section Chairman

CHAIRMAN'S CORNER

Once again it is the time of year to begin thinking about succession. For those of you who are currently serving in your chapter, this means contemplating the possibility of taking responsibility for the chairmanship of your chapter. This position involves attending the monthly executive board meetings and setting up chapter meetings. For those of you willing to step up to this new responsibility, there is a new level of professional awareness waiting. You will be called upon to provide leadership for your chapter. You will also be called into fellowship with others who are doing and have done the same. You will learn about the detailed workings of our local section, which is doing more than you might imagine within this community.

For those of you who are not yet involved in IEEE leadership, why not now? Pick up the phone and let your chapter chairman know that you are willing to participate. Make yourself a pledge to do a little more this year. This year could be the beginning of a great adventure. I can guarantee that you will experience a return greater than the effort you expend. Think of it as an investment. Your professional life will be enhanced.

If there is someone with a little more time to give and some long years of experience to share with us, I would like to invite you to think about serving as our publicity chairman. This position is important for our section as we become more and more prominent throughout

the region. In this vein, we have appointed a committee to investigate the idea of establishing an IEEE scholarship at UCF.

Looking ahead, there are a couple of major milestones on the horizon. South-eastcon is coming in early April. South-eastcon will be held in Tampa this year. As such it affords a rare opportunity to attend our regions premier conference for a small expense. Many of the section leaders will be attending this conference.

SPIE is also coming in April. This is a big conference that in the past has been oriented around the aerospace industry, but which has taken on more commercial aspects over the past few years. There is a large exposition for optics, infrared and imaging.

Further down the road is Southcon which will be held in June at the Convention Center. This is the conference of the Florida council. It is a manufacturers conference with a technical conference chaired by our own **Michael Georgiopoulos**. Many of our local section members will be chairing the technical sessions.

Although it is still early, I would like to wish everyone a wonderful Easter. It is a beautiful and mysterious time of year when living things begin to renew and take life again. Perhaps your own interest and vitality will also be renewed this year.

SEARCH FOR NEW SECTION OFFICERS

The Orlando Section elects officers for a term of one year beginning July 1. This year the Nomination Committee formed by **Parveen Wahid**, **Amir Mortazawi** and **Jorge Medina** will be accepting nominations for Section Officers (Chair, Vice Chair, Secretary and Treasurer). Nominations must be submitted in writing to the Nominations Committee before April 2, 1996.

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.

IN PURSUIT OF A RESILIENT CAREER IEEE-USA PACE Video Tape

Sponsors: Consultant' Network/
PACE

Abstract: "Resilient:" springing back into shape or position, elastic. Is there a better definition of what an individual must be to survive as an engineer today? But what makes a career resilient? And how can IEEE help you and your members achieve career resiliency? The goal of this plenary taped during the IEEE-USA 1995 PACE Conference is to provide you with some basic information that can be used in developing action and implementation plans for your career. It is a given that in today's employment market engineers need to assume total responsibility for career planning, skills development, and financial planning. This has to include the ability to assess and identify trends in technology that might offer long-term employment opportunities. This ability to move from one field of interest to another is essential in today's rapidly changing world. To do this, skills assessment and updating will become an essential element of career planning. You must be able to identify new uses for your present skills and to identify new skills to be added to your portfolio for use with your present employer or with a new employer.

Date: Tuesday, April 9, 1996

Time: 6:00 PM

Location: Orlando Public Library,
3rd Floor, Magnolia Room.

Contact: Jorge Medina 260-1676

E-Mail: j.medina@ieee.org

MOISTURE IMPACT ON PLASTIC ELECTRONICS PACKAGING

Sponsor: ED/CHMT

Speaker: Dr. Tom Li, Manager of
Advanced Engineering Lockheed -
Martin Corporation

Date: Thursday, April 18, 1996

Time: 5:00 - 6:00 PM

Location: Eng. 288, UCF

Contact: Dr. Jiann (Peter) Yuan 823-
5719

E-mail: jsy@engr.ucf.edu

WHAT IS SYSTEM ENGINEERING

Sponsor: Student Branch & AES

Speaker: Dr. Myron Kayton, Kayton
Engineering Co.

Date: Thursday, March 28, 1996

Time: 6:00 PM

Location: CREOL's new building,
Conference Room 102/103

Contact: Joe Martinez 678-0437

E-mail: ejm@ece.engr.ucf.edu

NAVIGATION - LAND, SEA, AIR AND SPACE

Sponsor: Student Branch & AES

Speaker: Dr. Myron Kayton, Kayton
Engineering Co.

Date: Friday, March 29, 1996

Time: 6:00 PM

Location: CREOL's new building,
Conference Room 102/103

Contact: Joe Martinez 678-0437

E-mail: ejm@ece.engr.ucf.edu

1995 REGION 3 CONSULTANTS' FEE SURVEY RESULTS

The IEEE Consultants' Network of Orlando has just completed the 1995 anonymous fee survey of 20 Region 3 consultants. Here is some of the information compiled:

Average Hourly Rate vs Billing Method

By the Hour*	78%	\$94
By the Day	17%	\$77
Fixed*	4%	\$108

* Some respondents use both the Hour and Fixed billing methods.

Average Hourly Rate vs Full/Part-Time

Full-Time Consultant	75%	\$93
Part-Time Consultant	25%	\$64

Average Hourly Rate vs College Degree

A.A.	5%	\$100
BS/BA	25%	\$84
MS/MA	60%	\$69
Ph.D.	10%	\$183

Average Hourly Rate vs P.E. License

With P.E. License	50%	\$101
Without P.E. License	50%	\$70

Average Hourly Rate vs Operation Status

Incorporated	40%	\$85
Not Incorporated	60%	\$86

Average Hourly Rate vs Office Type

Office at Home	85%	\$85
Renting an Office	15%	\$87

Average Hourly Rate vs E&O Insurance

With Errors & Omissions	10%	\$102
Without E&O Insurance	90%	\$84

Average Hourly Rate vs Liability Insurance

With Liability Insurance	50%	\$77
Without Liability Insurance	50%	\$94

Average Hourly Rate vs Marketing Method

Referrals	60%	\$94
Networking	45%	\$80
Advertising	5%	\$118

Avg. Hourly Rate vs Engineering Experience

Less than 29 years	45%	\$85
More than 29 years	50%	\$91

Avg. Hourly Rate vs Consulting Experience

Less than 7 years	55%	\$89
More than 7 years	40%	\$92

Avg. Hourly Rate vs Problems in Getting Paid

Problems in Getting Paid	28%	\$115
No Problems in Getting Paid	72%	\$78

Average Hourly Rate vs Specialty*

Software	20%	\$54
Image Processing	5%	\$68
Power	20%	\$83
Hardware	20%	\$93
RF/Telecom	5%	\$110
Forensics	15%	\$119
Others	30%	\$106

* Some respondents have more than one specialty.

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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 28** 6:00 PM IEEE Student Branch - **What is System Engineering** - CREOL, Room 102/103, J. Martinez, (O) 678-0437
Mar 29 6:00 PM IEEE Student Branch - **Navigation - Land, Sea, Air and Space** - CREOL, Room 102/103, J. Martinez, (O) 678-0437
- Apr 2** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496,, (H) 628-4462
Apr 9 6:00 PM IEEE PACE/CN - **In Pursuit of a Resilient Career** - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
Apr 9-30 6:00 PM IEEE PE/IA/PEL - **Power Quality Seminar** - Gardenia Facility, OUC, R. Danner (O) 841-9050, G. Engmann (O) 419-3500
Apr 18 5:00 PM IEEE ED/CHMT - **Moisture Impact on Plastic Electronics Packaging** - UCF, ENG Room 288, J. Yuan (O) 823-5719
Apr 19 3:00 PM IEEE Orlando Section/ECE-UCF - **Professional Ethics** - UCF, Room ENGR 384, I. Batarseh (O) 823-0185
Apr 21-24 IEEE C - **9th SEI Conference on Software Engineering Education** - Daytona Beach, FL, N. Mead (412) 268-5756
Apr 23-26 IEEE C - **4th International Conference on Software Reuse** - Hotel Royal Plaza, Lake Buena Vista, FL (304) 293-3607
- May 7** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496,, (H) 628-4462

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Ad Size	Width x Depth	Rate	Discounted Rate (more than one issue)
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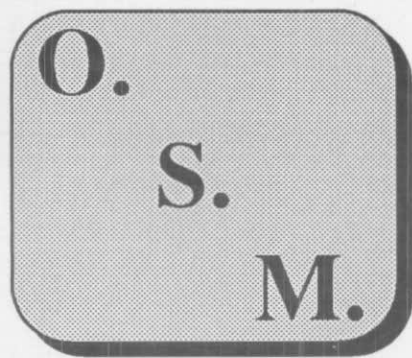
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IEEE

THE ORLANDO SECTION MONTHLY

The Newsletter of the Orlando Section of the IEEE

May 1996



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/ MEMBER'S PRESENTATION

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

Speaker: *Mr. Rodney L. Henry, P.E.*
Expert in heat transfer and fluid mechanics. All facets of mechanical engineering. 16 years of experience doing integrated solutions to complex problems from designing a hydraulically powered rescue vehicle to burner and combustion systems to designing fiberglass containers. Able to derive simple paper solutions or use complex numerical methods. Mr. Henry can be reached at 407-349-5899, Fax: 407-349-5899, E-mail: rodhenry@magicnet.net.

Date: Tuesday, May 14, 1996

Time: 6:00 PM

Location: Orlando Public Library, 3rd Floor, Patio Room.

Contact: Jorge Medina 260-1676

DIRECTIONS OF RESEARCH IN POWER QUALITY

Sponsor: Power Engineering/Industry Applications/Power Electronics
Program: Power quality means different things to different people. Dr. Domijan will present an overview of the many areas of current activity in electric power quality, including modeling, instrumentation, fundamental concepts, and current research.

Speaker: *Dr. Alex Domijan*, Associate Professor, University of Florida Department of Electrical and Computer Engineering, and Director and Founder of the Power Quality and Power Electronics Laboratory at UF.

Date: Thursday, May 23, 1996

Time: 7:00 PM

Location: Orange County Public Library (Downtown), 101 East Central Blvd., Third Floor Conference Room.

Contact: Gary Engmann 419-3521

E-mail: engmanngr@bv.com

Note: There are several restaurants along Central Blvd., west of the Library if you are interested in dinner before or after the meeting.

IMAGE CODING USING NON-ORTHOGONAL BASIS FUNCTIONS

Sponsor: Signal Processing
Speaker: *Al Berg*

Date: Wednesday, May 22, 1996

Time: 5:30 PM

Location: Engineering Bldg. (CEBA1) Room 419

Refreshments: Pizza and soda

Contact: Al Berg 826-6986

E-mail: aberg@dpsparc.engr.ucf.edu

CANDIDATES FOR IEEE ORLANDO SECTION OFFICERS NAMED

In accordance with the Section By-laws, the following candidates for Section Officers for terms beginning July 1, 1996 and ending June 30, 1997, are as follows:

Chairman: *Dr. Kalpathy Sundaram*
Vice Chairman: *Dr. Takis Kasparis*
Treasurer: *Dr. C. Christodoulou*
Secretary: *Mr. Al Berg*

Each person was contacted by the Nominations Committee and was found to be qualified and willing to serve.

IEEE ORLANDO SECTION

Region 03 Council 05 Section 51

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Dr. Issa Batarseh, UCF - VMBox 620
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Mr. Dave King, Section Chairman

CHAIRMAN'S CORNER

Spring has finally sprung and we are in the middle of one of the busiest times of the year. Everyone is so busy that it is easy to overlook the necessity to take time for professional development. With the activity level that most people are experiencing within industry and academia, it is especially very difficult to take time for doing anything more than that which the workplace seems to demand from us. At these times it is important to remember that we have an obligation to ourselves and to each other to foster and promote professionalism. It is this initiative that IEEE addresses. IEEE is the one organization whose main objective is to advance the professional life of the engineer.

For this reason we should commit time to the purpose of supporting the IEEE. By supporting the IEEE we are in turn brought into association with our peers who provide an abundance of information, intelligence and insight. In these days of corporate downsizing, restructuring and shifting priorities, it is more critical than ever to manage to network and share. Unfortunately, it is also much more difficult since most of us are working longer hours and bearing more responsibilities. The time is never readily available, but we must make a conscious decision to make time for our professional career development. In this vein, please consider serving your chapter this coming year. Attend the meetings, offer your speaking services, and work on the executive board. IEEE needs you.

The IEEE will host a live interactive satellite broadcast on Wednesday, April 24 for the young engineers forum. Although this forum is aimed at practicing engineers and students with under 10 years experience, the agenda is intriguing. If you are interested in attending this satellite broadcast, please contact your chapter chair.

By the time you receive this newsletter, many of our section members and a large group of students will be attending the Southeastcon '96 in Tampa. We are paying particular attention to the process of putting the conference on, since our section will be hosting this conference in 1998. The Florida Council and Region 3 meetings will be hosted here and there should be a great deal to report thereafter.

We have received our seed money from the IAS conference held earlier in the year. It looks like we will be in good shape financially thanks to the major conferences that we have supported this year. Within the Florida Council we are regarded as a 'wealthy section.' This economic prosperity allows us to have terrific social events such as Wet 'n Wild day, and the IEEE banquets. Every year we have many different distinguished lecturers come to our city to share their experience and insight. Our section is blessed with tremendous potential.

This great opportunity is in serious danger however. Several chapters are on the verge of disappearing due to inactivity. These chapters include COM/VT, LEOS, SRC, and AES. In the past these chapters have had a great deal of activity, but lately have fallen by the wayside. According to the IEEE By-Laws a chapter must have a minimum of two meetings per year to remain active. This minimum is not difficult to achieve, but unless someone is willing to organize them, these chapters could virtually disappear. Please get in touch if you can help.

That's it for now. Take care and God Bless.

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 1995 through June 1996. To make your reports timely and of use in selecting the Outstanding Chapter Chairman, please adhere to the following schedule:

May 7 - 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.

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

N = Total number of Meetings

ai = 0.5 social meetings

1.0 professional meeting

1.5 technical meeting

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, 1996.

CHAPTER STATISTICS

Some interesting facts about the Orlando Section chapters are listed below:

Society	Membership
AES	36
AP/MT	51
Computer	327
COM/VT	132
ED/CHMT	27
LEO	43
PE/IA/PEL	164
SP	54
SRC	66
UFFC	30

This data was extracted from the database received in March 1996 from the IEEE Headquarters Office.

WELCOME

New Members in the IEEE Orlando Consultants' Network

The Orlando Consultants' Network would like to welcome the following members who have joined the network during the last three months:

Donald R. Bush, P.E.

R. Ted Compton

Dr. David A. Conner, P.E.

William Getson, P.E.

Roy Harris

Gideon Hecth

Rodney L. Henry, P.E.

David M. King

William C. Kotheimer, P.E.

Dr. James McKnight, P.E.

Michael R. Puckett, P.E.

Steven L. Purucker, P.E.

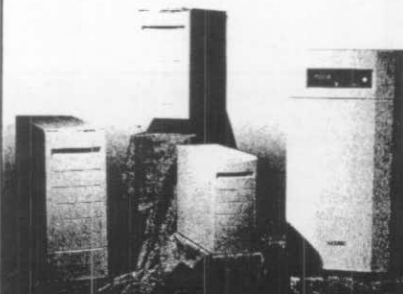
Percy F. (Butch) Shadwell, Jr.

Jerry T. Taylor, P.E.

Edward G. Tuttle

Dr. J.S. Yuan

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- May 7** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496,, (H) 628-4462
May 14 6:00 PM IEEE CN - **Member's Presentation: Consulting Background and Services** - Orlando Public Library, J. Medina, 260-1676
May 22 5:30 PM IEEE SP - **Image Coding Using Non-Orthogonal Basis Functions** - UCF, Eng. Bldg., Room 419, A. Berg (O) 826-6986
May 23 7:00 PM IEEE PE/IA/PEL - **Directions of Research in Power Quality** - Orlando Public Library, 3rd Floor, G. Engmann (O) 419-3500
May 28-31 IEEE CPMT - **46th Electronic Components & Technology Conf.** - Buena Vista Palace, Orlando, P. Walsh (703) 907-7547
May 29-Jun 1 IEEE CPMT - **5th Intersociety Conf. on Thermal Phenomena in Electronic Systems** - Buena Vista Palace, Orlando
- Jun 4** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496,, (H) 628-4462
Jun 11 6:00 PM IEEE CN - **TBA** - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
Jun 25-27 IEEE Region 3/FC - **Southcon '96** - Orange County Convention Center, Orlando

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If you are a member of IEEE within Region 3, you can get a list of companies that employ technical professionals in the southeast. All you need to do is send an Internet e-mail to:

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Use the exact format shown in the OSM May '95 issue. An auto-response file will be sent to you by return e-mail with instructions on how to access the ETI Database.

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THE ORLANDO SECTION MONTHLY

Volume XXIX, Number 11

A Monthly Publication of the IEEE Orlando Section

June 1996

1996 IEEE ORLANDO SECTION

LEE'S LAKE SIDE



ANNUAL INSTALLATION BANQUET

431 East Central Blvd., Orlando

Saturday, June 15, 1996

6:00 PM - 9:00 PM

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Cash Bar at 6:00 PM

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As we round the corner into summer, it is hard to believe that a full 1/3rd of 1996 has passed us by already. At UCF, everyone is starting the summer session. Southeastcon has come and gone. The hectic IEEE year is almost at an end for the chapters. In IEEE time, June marks the end of the yearly period when chapter elections occur and new officers are brought in. For many, the summer time is a lull period. A period when things die down a little and everyone takes it easy.

I recommend that those who are stepping into the position of chapter chair use the off month of July to make plans. Meet with your chapter officers. Set up a calendar and sketch in the times you'd like to meet and some tentative speakers for the meetings. Even if you have no idea who you will be able to get to speak, it is a good idea to sketch a plan together. This will give you a basis on which to proceed scheduling events and coordinating activities.

The off month will also be used to hold our IEEE orientation of new officers. In July, the installation banquet 'kicks off' the new IEEE year. This year we have a very nice dinner planned at Lee's Lakeside. **Larry Hume** is an excellent speaker, and should provide motivation and inspiration appropriate for the event. I would encourage you, therefore, to look at this upcoming summer season, not as a lull period - but as a time of beginning. Let's make it a good one!

Many of our section leaders attended the recent Southeastcon in Tampa to participate in the activities and to learn about running the conference. We will be sponsoring Southeastcon here in Orlando in 1998. Participating in the Southeastcon operations was an eye opening experience. There is a great deal to accomplish for this conference. There are many things to do now in order to get ready

for the conference in '98. For instance, we need to plan our hardware and software competitions. We should start working now on a hardware model for the competition in '98.

While at Southeastcon we learned about registration, the treasurers job, running the conference, doing the competitions, and scheduling the sessions. The conference came off very well in Tampa, but there were plenty of mistakes made to learn from. We want to make sure that the Orlando Southeastcon is one of the best ever. This will require support from everyone. Be prepared to do your part when your chapter chairman comes calling.

The Florida Council has put forth a proposal to initiate a Florida IEEE magazine. The idea is to provide a vehicle for intrastate communication and to provide an alternate funding source for the Florida Council. While the idea of having an intrastate magazine is attractive as a service for many of us, the economic viability of such an enterprise is in question. If you have any thoughts on this matter, please feed them back to us through your chapter chair.

Finally I would like to commend the chapters who attended May's EXCOM meeting and gave their report on chapter activities. There were five very active chapters who had at least 6 meetings each this year. These chapters have gone the extra mile to provide stimulating technical sessions and develop their membership. Kudos are in order for every chapter chair that has helped our section become the premier section in Florida. As I told everyone at the May EXCOM meeting, all the other chapters in Florida are very impressed when Orlando gives its quarterly report. We have a very active section and one which we can all be proud of.

Attention: Computer Society Members for 10 Years

If you have been a member of IEEE Computer Society for at least 10 years, the Orlando chapter would like to show its appreciation by presenting you with a ten-year pin (depicting the Computer Society logo in gold with number 10 in binary written underneath). Please collect your pins at the next technical meeting. If you have any questions, please call the Chapter Chair.

IEEE Chapter Activities

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/ MEMBER'S PRESENTATION

Sponsor: Consultants' Network

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

Speaker: **Mr. David King** - President of Computer Systems Engineering Corp. in Winter Park, FL. He is an expert in design of software and hardware for machine vision applications, image and signal processing. Engineering services include consulting for proposals, conceptual design, business facilitation, and general purpose engineering. Seventeen years experience in computer design and image and signal processing. Mr. King can be reached at (407) 628-4496, Fax: (407) 628-4467, E-mail: csec@magicnet.net
Date: Tuesday, June 11, 1996

Time: 6:00 PM

Refreshments: Free pizza and soda.

Location: Orlando Public Library, 3rd Floor, Patio Room.

Reservations: Jorge Medina 260-1676

PICNIC AT LAKE CLAIRE

Sponsors: PE/IA/PEL, AP/MTT and Student Chapters

Program: A family fun day for Chapters members, family, and friends including a free barbecue and soft drinks.

Activities: Facilities including softball and soccer fields, tennis and racquetball courts, volleyball, horseshoes, and playgrounds. Bring your sports equipment or maybe just your lawnchairs and sunglasses.

Date: Saturday, June 8, 1996

Time: 11:00 AM to 5:00 PM

Refreshments: Free barbecue and soda.

Location: Lake Claire, UCF

Contact: Susan Hawasly 646-8641 (day) or 282-2480 (evening).

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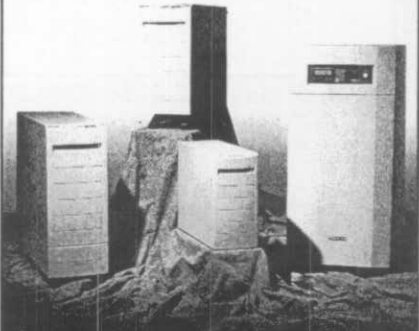
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EVENTS CALENDAR

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>

- Jun 4** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, D. King, (O) 628-4496,, (H) 628-4462
Jun 8 11:00 AM IEEE PE/IA/PE, AP/MTT, Student Chapter- **Picnic** - Lake Claire, UCF, S. Hawasly 646-8641 (day), 282-2480 (night)
Jun 11 6:00 PM IEEE CN - **Networking/Member's Spotlight** - Orlando Public Library, 3rd. Floor, J. Medina, 260-1676
Jun 15 6:00 PM IEEE Orlando Section - **Installation Banquet** - Lee's Lakeside, Orlando, K. Sundaram, 823-5326
Jun 25-27 IEEE Region 3/FC - **Southcon '96** - Orange County Convention Center, Orlando
- Jul TBA** IEEE Orlando Section - **Orientation for New Officers** - K. Sundaram, 823-5326
- Aug 6** 6:00 PM IEEE Orlando Section - **EXCOM** - UCF, Eng. Bldg. Room 288, K. Sundaram, 823-5326
Aug 13 6:00 PM IEEE CN - **Networking/Member's Spotlight** - Orlando Public Library, 3rd. Floor, Patio Room, J. Medina, 260-1676

The Orlando Section Monthly - Advertisement Rates

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