Volume XXVII, Number 1

THE **ORLANDO** SECTION MONTHL

IEEE

The Newsletter of the Orlando Section of the IEEE

August 1993

IEEE Orlando Section 1993 Installation Banquet

Jorge Medina, Awards Chairman

The annual installation banquet was held on June 19th at the Outback Restaurant in Lake Buena Vista and attended by 30 people. Awards Chairman Jorge Medina served as Master of Ceremonies. Jacqueline Hines who doubles as the Section Vice Chairperson and the Programs Chairperson is to thank for a nice evening; she took care of all the arrangements with the restaurant, lined up the banquet speaker, and provided photographic coverage of the event. Mr. Derek Brennan, Vice President of Networks and Chief Information Officer of Sprint United Telephone of Florida was the speaker of the evening. The topic was: Telecommunications: Yesterday, Today, Tomorrow. After the question/answer session the installation ceremonies began.

The Outstanding Corporate Service Award was presented to Hewlett-Packard, Inc. of Orlando. H-P has been a constant and vigorous supporter of IEEE activities in the Orlando area. Specifically, H-P has provided meeting facilities for the Orlando Chapter AP/MTT and the Executive Committee each month for the past year. In addition, H-P provides very good refreshments at these meetings. We believe that H-P sets the standard for Corporate support of IEEE and we are delighted to make this award to the person who sets the tone in his organization: Rick Lane, District Manager for Hewlett-Packard. Accepting the award for Hewlett-Packard of Orlando was Bob Smallwood.

The Outstanding Service Award was presented to Dr. David E. Flinchbaugh for 25 years of continuous service and participa-

See 1993 Installation Banquet, page 3



Outstanding Chapter Chairman Award, James R. Pipkin (left), Outstanding Entrepreneur Award, Eugene P. Augustine, Outstanding Corporate Service Award, Bob Smallwood, and Outstanding Service Award, Dr. David E. Flincbaugh



Jim Walter (left) presents Section Chairman, Dr. Ali Atashroo, with a check for \$16,000 as the remainder of proceeds to the Orlando Section for its sponsorship of the 1992 GlobeCom.



Outgoing Section Chairman, Dr. Ali Atashroo (left), presents Section Plaque and Gavel to incoming Section Chairperson, Jacqueline Hines.

IEEE ORLANDO SECTION

Region 03 Council 05 Section 51

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COMMITTEE CHAIRMEN Awards: Dr. M. Ali Atashroo, Martin Marietta

Conference: Ed Ellis, (VM) 90, (H) 834-3319

Education: Dr. Kalpathy B. Sundaram, UCF

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Jacqueline H. Hines, Section Chairman CHAIRMAN'S CORNER

s a new year starts for the Orlando Section, I look forward to an exciting and challenging year serving the Section. The 1993-1994 year holds the promise of many technically rewarding and socially enjoyable IEEE functions. Dr. Wahid, Dave King, Dr. Sundaram, and I would like to welcome the active participation of Section members in the Executive Committee meetings and committees. Executive Committee meetings are held the first Tuesday of each month (see calendar), and are open to any interested members. If you are interested in getting involved in Strategic Planning or other committee functions, please attend the August meeting.

After several years in their respective positions, two of our appointed committee chairmen have decided to retire from their positions this month. Glenn Portz has done an outstanding job as the PACE Committee Chairman, organizing section meetings, assisting members with employment opportunities, and attending PACE conferences and functions as a means of keeping the Orlando Section up to date. Thank you, Glenn, for an outstanding job. Glenn will be glad to turn over his information to a new PACE Committee Chairman, so any members interested in serving the Section in this capacity, please contact a member of the Executive Board. Bob Smallwood, our Membership Committee Chairman, is also leaving his post this month. Another H-Pengineer, Mr. Ron Miller, has volunteered to take on this position. Thanks for all your efforts in advancing the membership of IEEE and the Orlando Section, Bob, and welcome aboard, Ron. Both Bob and Glenn have contributed many years of service to the Orlando Section, and their efforts have been greatly appreciated.

In addition to maintaining the high activity levels of the past year in most Chapters, the upcoming year presents some challenges. Several of our smaller and/or joint chapter have not maintained the activity level required to remain valid chapters. While a grace period is given by National in such situations, this next year will be critical for these groups. Either more technical meetings will have to be held, or the Section will have to consider dis-establishing these chapters. Means are available for holding technical meetings without obtaining speakers, such as through the use of videotaped lectures. The Section video library is fairly extensive now, so let's make use of it!

Policy related challenges also face the Orlando Section in the upcoming year. A comprehensive review and revision of the Section Bylaws needs to be completed in the first half of this year. This revision was spurred by events of the past year, which made it evident that the Bylaws were not complete and consistent. Members of the Executive Board will generate a revised version, but additional Executive Committee members will be needed for the review process. If you are interested, please contact an Executive Board member.

While the section remains financially sound, we need to make an effort to determine how best to utilize the Section's resources for the good of the members. This could include many things, such as: leaving a majority of the funds invested, sponsoring engineering scholarships or academic awards, purchasing and donating books to libraries, or ensuring all Orlando Section members have access to E-mail capabilities. The Strategic Committee will actively be looking at this topic in the next few months.

Finally, I would like to encourage all Chapter Chairmen to attend the Executive Committee meetings. The agenda will be somewhat revised this year, but every effort will be made to make it realistic. The upcoming year looks exciting, but there is lots to do -we need your help to succeed!



1993 Installation Banquet

from page 1

tion in Orlando IEEE activities at the Chapter, Section and Council levels, including Executive Committee and Board positions.

The Outstanding Entrepreneur Award is a new award the Orlando Section is presenting this year for the first time, as a result of the formation of a new working group within the Orlando Section, named the IEEE Consultants Network of Orlando. This award is designed to recognize a self-employed member of the Orlando Section who, through his technical, professional and consulting abilities, has made outstanding contributions to the electro-technology profession. This year's award was presented to Mr. Eugene P. Augustin for the design of the satellite TVRO rotary probe antenna that revolutionized the satellite TV industry, the design of SIMULSAT, which still being installed worldwide, and for founding three companies that are currently leaders in their field.

Certificates of Appreciation were presented to the Chapter and Working Group Chairpersons as follows:

AES	Dr. David Flinchbaugh
AP/MTT	Laurie Dunn
C	Dr. Edwin K. Evenson
COM/VT	Michael Germain
ED/CHMT	Dr. Kalpathy B. Sundaram
LEO	Eric W. Van Stryland
PE/IA	James R. Pipkin
SP	Dr. Ikram E. Abdou
SRC	Dr. Harley Myler
UFFC	Thomas Voor
NN	DrMichael Georgiopoulos

CN..... Jorge Medina

Each year at the June meeting of the Executive Committee, The Chairpersons of the ten Society chapters meet to decide which chapter conducted the best operation during the past year. This year, after a good deal of deliberation and the usual close competition, the Chapter Chairpersons selected the PE/IA as the 1993 Outstanding Chapter. The PE/IA is a very active chapter and has developed and presented an outstanding program of meetings and events for its membership. The person who has provided the leadership of that chapter this year is Mr. James R. Pipkin. The Orlando Section is delighted to present the 1993 Outstanding Chapter Chairman Award to him.

Dr. Ali Atashroo, the Outgoing Section

Chairman, presented Certificates of Appreciation to Section Executive Officers, Committee Chairmen, and Essay Contest Participants during National Engineers Week. Mr. Jim Walter, Globecom '92 treasurer, presented Dr. Ali Atashroo with a check for \$16,000 as the remainder of proceeds to the Orlando Section for its sponsorship of the conference. Dr. Ali Atashroo, then thanked everyone for support during his tenure as Section Chairman, introduced the new Section Chairperson, Jaqueline Hines, presented her with the Section Chairperson pin and turned over the gavel. Jaqueline then introduced the 1993-1994 IEEE Orlando Section Officers:

ViceChair...... Dr. Parveen Wahid Treasurer......David King

Secretary......Dr. Kalpathy B. Sundaram

Jacqueline briefly discussed her agenda for her tenure, thanked everyone and bid farewell. Group photographs of the award recipients were taken and are presented herein.

Members! Use the IEEE Professional Assistant Network

We offer unemployed members an opportunity to run a free position wanted ad in the Orlando Section Monthly. Write your own ad copy and mail or fax it to the Orlando Section Monthly editorial office. Your ad will appear in the next available issue if space is available

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

How a Consultant's Network Benefits its Members

Abstract: This presentation will describe some of the ways that the local IEEE Consultant's Network benefits both their members and the general engineering community.

Speaker: Jorge Medina

Date: Tuesday, August 10, 1993

Time: 6:00 PM

Location: Orlando Public Library, 3rd.

Floor, Magnolia Room.

Contact: Please make your reservations by leaving a message for Jorge Medina at 260-1676, ext. 7, voice mailbox 323.

SIGNAL PROCESSING

Tour of the Orlando Regional Medical Center Magnetic Resonance Imaging Facility

Date: Wednesday, September 22, 1993

Time: 5:00 PM

Location: 1300 S. Orange Ave., Orlando

Ave., Orlando.

Contact: Tim Young 356-8865 or leave message at 260-1676, ext. 7, voice mailbox

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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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SECTION

Aug. 3	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604
Aug. 10	IEEE Consultants' Network - How a Consultants' Network Benefits its Members - Orlando Public Library, J. Medina, (VM) 323, (O) 260-1676
Sep. 7	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604
Sep. 14	IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676
Sep. 22	SP - Tour of the Orlando Regional Medical Center Magnetic Reso- nance Imaging Facility - T. Young, (VM) 233, (O) 356-8865
Oct. 5	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604
Oct. 12	IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676
Oct. 24-28	ICALEO '93 - The 12th International Congress on Applications of Lasers & Electro-Optics - Orlando Airport Marriott, (407) 380-1553
Feb. 13-17, '	94 APEC '94 - 1994 IEEE Applied Power Electronics Conference and Exposition - Walt Disney World Resort, Orlando
Feb. 14-18, '	
Mar. 29-31, '	
Dec. 14-16, '	로 하는 사용하다 100mm
May 15-19,	95 IEEE MTT - 1995 IEEE/MTT-S International Microwave Symposium - K. Huddleston. (O) 356-7201. 339-0336

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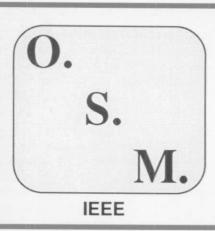
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THE ORLANDO SECTION MONTHI



The Newsletter of the Orlando Section of the IEEE

September 1993

SECTIONS CONGRESS '93 EMPOWERING SECTIONS TO SERVE MEMBERS

Dr. M. Ali Atashroo Orlando Section Jr. Past Chairman

IEEE triennial event brought leaders representing 208 Sections on 6 continents together in Puerto Rico to plan the Institute's future. Three hundred ninety-one delegates, including representatives from 73% of IEEE Sections on six continents, gathered in San Juan, Puerto Rico from July 1 - 4 for SECTIONS CONGRESS '93 (SC '93).

The climax of 93 Section Congress was the final day of the Section Congress when the IEEE Sections' delegates voted on the thirty three Recommended Actions from the ten IEEE regions caucuses and the breakout sessions. The top ten recommended actions voted by Sections' primary delegates are presented in this report. Luis T. Gandia, Vice President of Regional Activities and Chairman of the SC '93 Organizing Committee oversaw a program which included plenary sessions, tutorials, workshops, software demonstrations, IEEE exhibits, and networking opportunities.

Other highlights of the weekend included the Opening Ceremony featuring an address by The Honorable Baltasar Corrada del Rio, Puerto Rico's Secretary of State, and a Puerto Rican Fiesta hosted by the Baccardi Corporation.

The program also included a number of software demonstrations, including the introduction of ROOT, a new semi-interactive officer training and resource materials program, which, over time, is expected to replace the hard copy information sent to Section, Chapter and Regional officers.

The ROOT software which has been packed on two 3.5" floppy diskettes provides the following contents in easy-to-use vivid color hypertext. I strongly recommend a copy of the ROOT software for every member of IEEE Orlando Section's Executive Committee. We will install the ROOT on the upcoming Orlando Section Bulletin Board Service (BBS) for the general membership access.

Two Regional Activities Board awards were presented during the Congress. The William W. Middleton Distinguished Service Award was presented by Bill Middleton to Wallace S. Read. The Larry K. Wilson Transnational Award was bestowed upon Robert T. H.

Alden by SC '93 Program Chair Robert Noberini.

One of the key objectives of the triennial event is for Section delegates to generate a list of recommended actions -- areas where they feel that IEEE leadership needs to focus attention and resources to benefit both IEEE members and the electrical engineering profession. And, what were the synopsis of the top 10 recommendations that came forth from SC '93?

- 1. Increase support to Sections in the form of rebates;
- Take aggressive action to enhance the self and public image
 of engineers through public debate on major issues, measuring compensation, and encouraging engineering associations
 worldwide to show their role in wealth creation and the
 solution of society's problems;
- Develop a variety of programs to encourage employer support of Sections and volunteers;
- Increase and improve technical societies' support to local Chapters (and Sections);
- Update membership diskette to include members' corporate address:
- Develop programs for portable benefits (health, life, pensions, investments, etc.), which are transferable from job to job, affordable and applicable (or tailored) to each Region of the world:
- Reinstate \$300 Section Rebate for sponsoring a technical conference:
- Increase communication between high-level IEEE staff and volunteers and appropriate high-level industry executives;
- Prepare attractive, informative, practical material, highlighting benefits of employee participation as volunteers with particular attention to: (a) global competitiveness; (b) international standardization; (c) information technology;
- 10. Require the Regional Activities and Technical Activities Boards to coordinate their activities to get lecturer information to every Section and require the Regional Activities Board to assist Sections by coordinating these talks.

SECTIONS CONGRESS has, over the past nine years, given IEEE members the opportunity to guide the future of the organization through the leaders of their local units. Listening to the priorities of IEEE members worldwide does not stop when delegates depart the Congress. Their views will form the basis for activities and policy actions at all levels of IEEE over the next three years.

IEEE ORLANDO SECTION

Region 03 Council 05 Section 51

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Sr. Past Chair.: Jorge Medina, Sigtone, Inc.

(O) 356-6914, (H) 539-0465

(O) 260-1676, (F) 260-1636

Advisor: Dr. Mario Sznaier, UCF, (VM) 916, (H) 366-5694

Chairman: Debra Kemnitz, UCF (VM) 83, (H) 658-4595

SRC: Scott Harrell, UCF (VM) 93, (H) 366-7952

Voice Mail: (407) 260-1676, Fax: 260-1636



Jacqueline H. Hines, Section Chairman

CHAIRMAN'S CORNER

he Executive Committee meeting held on August 3rd was quite productive. Mr. Wally Arceneaux, Chapter Chairman for AP/MTT, has accepted an appointment as PACE Committee Chairman for the Section. Wally will represent the Orlando Section at a PACE conference to beheld in Oregon during September, and will work with Glenn Portz to ensure a smooth turnover of this position. Also, the Section would like say thanks for your dedication and support, and to wish Jeff Rollman farewell and best wishes as he relocates to Motorola in Arizona. The position he vacates as Chapters Chairman will be filled by Laurie Dunn. Chapter Chairmen should expect to receive a packet of information from Laurie sometime this month, outlining the procedures for the coming year. Remember that the September meeting is when proposed budgets for the calendar year 1994 need to be submitted. Please plan accordingly, and send a representative with this information if you are unable to attend September's Executive Committee meeting.

Dr. Ali Atashroo is currently working on procuring a computer system for the Section to use as a central bulletin board service (BBS) for establishment of e-mail capabilities. It is the Executive Committee's goal to have e-mail access available for all section members who desire to utilize it prior to the end of this year. The Section BBS will subscribe to some larger service, and members will be able to interface with IEEE headquarters, other members, leave messages, send meeting messages, and so on. We hope that all members will try to utilize this service as it becomes available. More information on this next month.

The Executive Committee is working dili-

gently to involve the Section in several future conferences planned for Orlando. After considerable discussion, the national PE conference will be held in Orlando in 1998. The Section plans to be involved, although the details and the extent to which the Section will be involved and the benefits of this activity are still being established. The World Congress on Computing Intelligence which is being held in Orlando in 1994 is being actively supported by the Section. Members interested in volunteering assistance should watch the newsletter for more information.

The addition of the remaining proceeds from Globecom '92 (over \$16,000) has substantially boosted our investment account balances. The strategic committee will be holding a planning meeting on August 29th. Topics of discussion will include how to best invest and/or utilize the financial assets of the Section in order to serve the membership. Anyone with an idea to contribute, or who would like to participate in this meeting, please contact a member of the Executive board for more information. All section members are welcome to participate in this strategic planning!

Our IEEE Orlando Section Executive Committee meetings are held the first Tuesday of every month (except July), at Hewlett-Packard, 6177 Lake Ellenor Drive, Orlando, at 5:30 P.M. Refreshments are provided courtesy of Ron Miller and Hewlett-Packard. Please join us this month!

EXTRA STEPS

EXTRA STEPS is a prototype for a schoolwide, technology based educational system using computers and other interactive technology. EXTRA STEPS actively involves students in education, within a *stimulating, creative and fun learning environment.

While technological advances over the last 25 years created a global economy, with stiff business competition, education in this country continued to rely on the traditional curriculum to meet these challenges. We have not moved forward as rapidly as we must in the future. Our citizens, our students, our work force of the future will need a new set of competencies - with higher level skills, more creativity and greater problem solving abilities in order for us to remain competi-

tive in this new environment.

EXTRA STEPS will give our students the extra edge necessary to prepare them for the educational challenges of middle school, high school, and beyond. The program is being implemented by a group of parents, community members, teachers and staff for the sixth grade class of 1993-94, with the intent of creating the best possible educational experience for the citizens of tomorrow.

Maitland Middle School needs volunteers from our Central Florida business community to donate their "time, talent, and treasure" to insure the success of EXTRA STEPS. Anyone with a background in computers or engineering who would like to volunteer 1-5 hours each week to assist in EXTRA STEPS, please call Ms. Lynda Langa at 647-2587 or Dr. M. Ali Atashroo at 356-6914.

Family Fun Day!

Watch our next issue for more information

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

Consultant Liability and Client Relations

Abstract: As consultants we provide advice, ideas, technical expertise and are remunerated for such service. In all cases we owe our clients ethical, professional treatment and under some agreement for confidentiality and compensation for work, which is many times defined after consultation begins. Ethical treatment must be a two way street and we must protect our interests in the event a client finds fault, real or imagined, with our work. Techniques for liability protection and maintaining client relations will be shown.

Speaker: Edward G. Tutle, Consultant Date: Tuesday, September 14th, 1993

Time: 6:00 PM

Location: Orlando Public Library, 3rd.

Floor, Magnolia Room.

Contact: Please make your reservations by leaving a message for Jorge Medina at 260-1676, ext. 7, voice mailbox 323.

SYSTEMS/ROBOTICS/ CONTROLS &

NEURAL NETWORK WORKING GROUP

Competitive Learning Algorithms

Video Tutorial: Neural Networks Pioneer Series by Professor Teuvo Kohonen.

Abstract: Many contemporary applications of Artificial Neural Networks are based on competitive learning algorithms, such as the Self-Organizing Map and Learning Vector Quantization. The tutorial covers the principles and functioning of these learning processes, demonstrates their applications and gives practical advice and instructions for their implementation.

Date: Thursday, September 9th, 1993 Time: 6:00 PM, (root)Beer and Pizza! Location: Video Conference Room, ENGR 288, UCF College of Engineering.

Contact: H. Myler, 823-5098 or M. Georgiopoulos, 823-5338. This meeting is restricted to IEEE members only.

SIGNAL PROCESSING

Tour of the Orlando Regional Medical Center Magnetic Resonance Imaging Facility

Date: Wednesday, September 22nd, 1993

Time: 5:00 PM

Location: 1300 S. Orange Ave., Orlando

Ave., Orlando.

Contact: Tim Young 356-8865 or leave message at 260-1676, ext. 7, voice mailbox 233.

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Sep. 7	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604
Sep. 9	IEEE SRC/NN - Competitive Learning Algorithms - UCF, H. Myler, (VM) 303, (O) 823-5098, M. Georgiopoulos(O) 823-5338
Sep. 14	IEEE CN - Consultant Liability and Client Relations - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676
Sep. 22	IEEE SP - Tour of the Orlando Regional Medical Center M.R.I. Facility - T. Young, (VM) 233, (O) 356-8865
Oct. 5	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604
Oct. 12	IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676
Oct. 24-28	ICALEO '93 - 12th Int'l Congress on Applications of Lasers & Electro-Optics - Orlando Airport Marriott, (407) 380-1553
Nov 2	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604
Nov. 9	IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676
Dec. 6-12	IEEE C - 9th Annual Computer Security Applications Conf Orlando Marriott , Orlando, R. Gove (703) 902-5280
Dec. 7	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604
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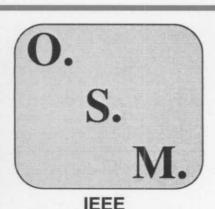
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The Newsletter of the Orlando Section of the IEEE

November 1993

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

What is an Independent Consulting Engineer?

Abstract: Who becomes a consultant? What is a consultant? What does a consultant do? What are the characteristics of a consultant? These and many other factors that need to be considered before choosing consulting as a career will be presented.

Speaker: Jorge Medina, Medina Software, Inc.

Date: Tuesday, November 9th, 1993

Time: Meeting at 6:00 PM, Presentation at 6:30 PM

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

Contact: Please make your reservations by leaving a message for

Jorge Medina at 260-1676, ext. 7, voice mailbox 323.

SIGNAL PROCESSING

Recent Trends in Image Processing Applications and Hardware

Speaker: David King, Datacube Inc. **Date:** Thursday, November 18th, 1993 **Time:** 6:00 PM, pizza will be served

Location: Room 407, UCF College of Engineering. Contact: Please RSVP to Tim Young (O) 356-8865

NOTE: The ORMC tour will be rescheduled as soon as the hospital's schedule permits.

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ELECTRON DEVICES/ COMPONENTS, HYBRIDS AND MANUFACTURING TECHNOLOGY

SubMicron BiCMOS Process Technology

Program: A two hour video technical tutorial seminar

Date: Thursday, November 18th, 1993

Time: 6:00 PM

Location: Room 288, UCF College of Engineering.

Contact: K. B. Sundaram (O) 823-5326

LASER AND ELECTRO-OPTICS

Recent Advances in Rare Earth Doped Fiber Lasers and Amplifiers

Speaker: Steven Grubb, Distinguished Lecturer,

AT&T Bell Labs

Date: Thursday, December 9th, 1993

Time: 5:30 PM Wine & Cheese, 6:30 PM Lecture

Location: UCF. Call Glenn Boreman at 658-6815 for specific

location information.

Florida's Laser and Electro-Optics Industry: Challenges in the 90's

Speaker: William Schwartz, President, Schwartz Electro-Optics **Topic:** Future Challenges for the Central Florida Laser Community **Speaker:** Martin Stickley, Professor of EE and Assistant Director, CREOL, UCF

Topic: Federal Funding Opportunities for R&D

Date: Saturday, December 11th, 1993

Time: 9:00 AM

Location: UCF. Call Glenn Boreman at 658-6815 for specific

location information.

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Jacqueline H. Hines, Section Chairman

CHAIRMAN'S CORNER

nce again, the Orlando Section has set the standard for excellence! Jim Walter of GlobeCom contacted me last week, and told me that the GlobeCom executive board was "So pleased with the contribution made by the Orlando Section members that they decided to give us an additional \$3,333.00 from the proceeds." Congratulations and a hearty thanks to Ron Kandell (Conference General Chairman) and to Ed Ellis and all the volunteers who contributed to making this effort a success.

The Section will have several opportunities to continue our record for active participation in conferences. The World Congress on Computational Intelligence will be in Orlando in 1994, and the section has the opportunity to participate in the PE conference in 1998 in Orlando, and to run SOUTHEASTCON in 1999 in Orlando. All of these conferences represent opportunities for significant revenue generation for the Section, and would allow us to provide funds for uses that would benefit the Section membership.

The Orlando Section Video Library is now being maintained by **Dr. Issa Batarseh** at the University of Central Florida. Our collection of videos is quite extensive, and is available for viewing both at chapter technical sessions and on an individual basis. If you are interested in finding out more, or borrowing tapes for viewing, please contact Dr. Batarseh at 823-0185.

Once again, a new financial program has been instituted by IEEE National - the IEEE Financial Advantage program. This is a multi-faceted financial program, providing services ranging from investment funds to mortgage lending, all offered through financial institutions such as Chase Manhattan. Information on these programs can be obtained by contacting the program information line, 24 hours a day, 7 days a week, at 1-800-GET-IEEE. Since IEEE insurance has always been a significant benefit to members, I strongly urge that you consider the programs being offered here when evaluating loan and investment opportunities.

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Videoconference materials are available only to IEEE Orlando Section Chapters with attendance limited to IEEE members. These are selected programs from IEEE's ongoing Seminars via Satellite series on timely engineering topics. Each video runs several hours and would be suitable for a day long program.

- Role of Artificial Intelligence in Manufacturing
- Desktop Publishing for Technical Writers
- · GaAs Monolithic Microwave IC
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- · Heterostructure Transistors
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- Introduction to Modem Technology, Theory and Practice of Bandwidth Efficient Modulation from Shannon and Nyquist to date

- Three Phase Short Circuits
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- The Structure of FFT and Convolution Algorithms

- · Synthetic Aperture Radar Viewpoint
- High Resolution and Higher Order Spectral Analysis
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- · Artificial Neural Systems
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- Neural Networks: Algorithms and Microhardware
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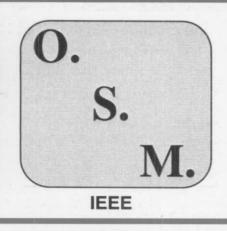
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Meeting Announcements

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

Structuring Your Consulting Fees for Profit

Abstract: A discussion of the different consulting compensation methods will be presented. One part of this presentation will be a summary of the survey of fees charged by our members. We have asked all our members who have served clients during 1990-1993 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.

Speaker: Jorge Medina, Medina Software, Inc.

Date: Tuesday, December 14th, 1993

Time: Meeting at 6:00 PM, Presentation at 6:30 PM **Location:** Orlando Public Library, 3rd. Floor, Magnolia Room.

Contact: Please make your reservations by leaving a message for Jorge Medina at 260-1676, ext. 7, voice mailbox 323.

SIGNAL PROCESSING

Image Processing Applications to Face Detection and Recognition

Speaker: Dr. Thomas Huang, SP Distinguished Lecturer, University of Illinois Computer Science Lab

Date: Monday, January 31st, 1994

Time: 5:30 PM

Location: Hewlett Packard on Lake Ellenor Drive Contact: Please RSVP to Tim Young (O) 356-8865

LASER AND ELECTRO-OPTICS

Recent Advances in Rare Earth Doped Fiber Lasers and Amplifiers

Speaker: Steven Grubb, IEEE/LEO Distinguished Lecturer, AT & T Bell Labs

Date: Thursday, December 9th, 1993

Time: 6:00 PM Wine & Cheese, 7:00 PM Lecture Location: Holiday Inn - Across from UCF. Call Glenn Boreman at 658-6815 for specific location information.

Florida's Laser and Electro-Optics Industry: Challenges in the 90's

Speaker: William Schwartz, President, Schwartz Electro-Optics

1st Topic: Future Challenges for the Central Florida Laser Community

Speaker: Martin Stickley, Professor of EE and Assistant Director, CREOL, UCF

2nd Topic: Federal Funding Opportunities for R & D

Speaker: Peter Baker, Director, Laser Institute of America

3rd Topic: Leadership and Management of Small Organizations

Date: Saturday, December 11th, 1993

Time: 10:00 AM

Location: UCF campus - Business Admin. Bldg. Room 119. Call Glenn Boreman at 658-6815 for specific location information.

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Jacqueline H. Hines, Section Chairman

CHAIRMAN'S CORNER

his year's Orlando Section Family Fun Day was held October 17th at Wet 'n Wild, and was well attended. Although gloomy skies threatened rain during the morning, the skies cleared and the afternoon was ideal for our outing. Perhaps due to the morning's weather, the park was particularly sparsely populated, so members attending our function benefited from very short lines on all attractions.

Regarding conference participation and sponsorship, the Section will serve as a partner in sponsoring the World Congress on Computational Intelligence in Orlando in late June of 1994. The first of its kind, this conference will provide a unique forum for technical discussions relating to neural networks, fuzzy logic, and evolutionary computing. The section participation will include volunteers during the conference, assistance with local arrangements and guest social programs, and publicity. Details will follow in future issues of this newsletter. Anyone interested in more information can contact **Dr. Ratan Guha**.

The section executive committee has voted to participate in the PE conference in 1998 in Orlando, and to run SOUTHEASTCON in 1999 in Orlando. Dr. Issa Batarseh has volunteered to coordinate the Section's activities for these two conferences. As in the case of the World Congress on Computational Intelligence, these conferences are not only forums for outstanding technical interactions, but also opportunities for significant revenue generation for the section, and would allow us to provide funds for uses that would benefit the section membership.



★STAR SEARCH★

ORLANDO SECTION AWARDS

1.1 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.

1.2 PROCEDURE

The Submitter fills out the form as indicated and suggests nominators and endorsers to support the nomination. After a review process, some candidates will be selected for nomination. If the Submitter is willing to prepare the nominations forms, the Awards 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).

1.3 QUALIFICATIONS

The OUTSTANDING ENGINEER AWARD is designed to recognize a member of the Section who, through his technical and professional abilities, has made an outstanding contribution to the electro-technology profession.

The OUTSTANDING ENGINEERING EDU-CATOR AWARD is designed to recognize at member of the Section who has shared his technical and professional abilities through teaching (in industry, government or in an institution of higher learning) and in so doing has made an outstanding contribution to the electro-technology profession.

The OUTSTANDING SERVICE AWARD is designed to recognize a member of the Section who, through his 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 consulting abilities has made outstanding contributions to the electro-technology profession.

1.4 ELIGIBILITY

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

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

	Outstanding Engineer Award Outstanding Engineering Educator Award Outstanding Service Award Outstanding Entrepreneur Award	Please Return Form To: Dr. Ali Atashroo, Awards Chair. 1512 Indian Dance Court Maitland, FL 32751
2. NOMINEE:		
Profession	nal Affiliation and Title:	
Current A	ddress:	
Work Pho	one: () Home P	home: ()
B. PROPOSED C	ITATION (30 words or less) FOR:	
	/BOARD RELEVANT TO ACHIEVEMENT CITED:	
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	ition and Grade:	
Current A	ddress:	
Work Pho	ne: () Home P	hone: ()
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Circulation 1625

EVENTS CALENDAR

For the latest information call the IEEE Orlando Voice Information Center 260-1676, option 7 and enter the respective Voice Mailbox (VM) number.

Dec 6-10 IEEE C - 9th Annual Computer Security Applications Conference - Orlando Marriott , Orlando, R. Gove (703) 902-5280

Dec 7 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604

Dec 9 IEEE LEO - Recent Advances in Rare Earth Doped Fiber Lasers & Amplifiers - Holiday Inn, G. Boreman, (VM) 293, 658-6815

Dec 11 IEEE LEO - Florida's Laser and Electro-Optics Industry: Challenges in the 90's - UCF, G. Boreman, (VM) 293, (O) 658-6815

Dec 14 IEEE CN - Structuring Your Consulting Fees For Profit - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676

Jan 4 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604

Jan 11 IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676

Jan 18 SOUTHCON - Manuscripts Due - UCF, I. Batarseh, (O) 407-823-0185, Fax (310) 641-5117

Jan 31 IEEE SP - Image Processing Applications to Face Detection & Recognition - Hewlett Packard, T. Young (O) 356-8865

Feb 4 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (VM) 901, (O) 886-8860, (H) 628-1604

Feb 11 IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (VM) 323, (O) 260-1676

Feb 12 GLOBECOM '94 - Complete Manuscript Due - D. Harris, Box P, Stanford Univ., Stanford, CA 94309, (415) 725-9868

Feb 13-16 APEC '94 - 1994 IEEE Applied Power Electronics Conference and Exposition - Walt Disney World Resort, Orlando

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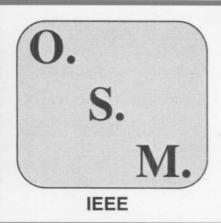
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The Newsletter of the Orlando Section of the IEEE

January 1994

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

Taxes: Business Structure, Business Expenses, and Tax Law Changes

Abstract: A discussion of tax issues for various business structures (sole proprietorship, partnership, C & S corporations), business expenses (depreciation/amortization, home office deductions, self-employment tax, health insurance and auto expenses) and tax law changes (tax rate increases, deduction/exemption limitations, intangible assets and other provisions) will be presented.

Speaker: Mr. Kenneth E. Norquist, Partner of Medina, Norquist & Associates

Date: Tuesday, January 11th, 1994

Time: Meeting at 6:00 PM, Presentation at 6:30 PM

Location: Orlando Public Library, 3rd. Floor

Contact: Please make your reservations by leaving a

message for Jorge Medina at 260-1676.

SIGNAL PROCESSING

Image Processing Applications to Face Detection and Recognition

Speaker: Dr. Thomas Huang, SP Distinguished Lecturer, University of Illinois Computer Science Lab

Date: Monday, January 31st, 1994

Time: 5:30 PM Refreshments, 6:30 PM Lecture Location: Hewlett Packard on Lake Ellenor Drive Contact: Please RSVP to Tim Young (O) 356-8865

ULTRASONICS, FERROELECTRICS, AND FREQUENCY CONTROL

Surface-Acoustic-Wave Devices: Fundamentals, Current Status and Future Trends

Speaker: Dr. Eric L. Adler, Fellow, IEEE

Date: Monday, February 3rd, 1994

Time: 6:30 PM for Dinner, 7:30 PM Lecture

Location: TBA

Contact: Please RSVP by Jan. 18th, to Jeff Mink (407)

886-8860, or Mike Garrity (407) 886-8860.

* STAR SEARCH



Help us identify the Outstanding Electrical Engineers in the Orlando Section

We are looking for potential candidates for major Section Awards. The Outstanding Engineer Award and the Outstanding Engineering Educator Awards will be presented in February, 1994 at the Awards Banquet. The Outstanding Service Award and the Outstanding Entrepreneur Award will be given in June, 1994 at the Installation Banquet. The deadline for nominations is January 15th, 1994. The Orlando Section consists of over 1,400 Engineers spread over five counties. We can only get to know who the top performers are with your help. An Orlando Section Award Candidate Search Form can be found on page 3 of the December newsletter. If you are aware of someone who has made significant contributions to the profession in the areas specified in the Qualifications section, and also meets the Eligibility requirements, please take a couple of minutes to fill out the short Search form.

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Neural Network: Dr. M. Georgiopoulos, UCF (O) 823-5338, (H) 275-2665

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Jacqueline H. Hines, Section Chairman
CHAIRMAN'S CORNER

nce again, the exceptional qualifications of Orlando Section engineers have resulted in an outstanding showing in the Florida Council award competition. All three FCIEEE award recipients chosen are from the Orlando Section! Dr. Jiann S. Yuan was selected as the Outstanding Engineering Educator, Dr. Marion J. Soileau was selected as the Outstanding Engineer, and Dr. David E. Flinchbaugh was chosen for the Outstanding Service Awards. Congratulations to all the award recipients! A representative of the Florida Council will present the awards at the Awards Banquet in February. Thanks to all of the section members who made nominations and wrote letters of recommendation, and to Dr. M. Ali Atashroo who coordinated the award nomination process. Also, three Orlando Section members have been nominated for Region 3 Awards. They are: Dr. Marion J. Soileau for Outstanding Engineer, Dr. Wasfy B. Mikhael for Outstanding Engineering Educator, and Mr. Ed Ellis for Outstanding Service. Good luck to all in the regional competition!

Regarding conference participation and sponsorship, the Section will serve as a partner in sponsoring the World Congress on Computational Intelligence in Orlando in June of 1994. The first of its kind, this conference will provide a unique forum for technical discussions relating to neural networks, fuzzy logic, and evolutionary computing. The Section participation will include volunteers during the conference, assistance with local arrangements and guest social programs, and publicity. Details will follow in future issues of this newsletter. Anyone interested in more information can contact Dr. Ratan Guha. The section executive committee voted to participate in the PE conference in 1998 in Orlando, however due to an impending deadline and a perceived lack of interest on the part of the local PE Chapter, Florida West Coast submitted a complete proposal package to hold the conference in Tampa instead. Since the Power Engineering Society tends to rotate this conference between North and South each year, our section has requested to host the 2000 Conference in Orlando instead. The Orlando Section has also requested to host SOUTHEASTCON in 1999 in Orlando. Dr. Issa Batarseh has volunteered to coordinate the Section's activities for these two conferences. As in the case of the World Congress on Computational Intelligence, these conferences are not only forums for outstanding technical interactions, but also opportunities for significant revenue generation for the Section, and would allow us to provide funds for uses that would benefit the Section membership.

Over the past few months, several Orlando Section members have inquired about how the Florida Council benefits its member sections. The Council performs several functions which benefit the individual sections, including conducting the annual statewide awards program, recommending Florida award nominees to Region 3 for consideration, coordination of the state science fair judging efforts and providing student awards for these events, and hosting SOUTHCON. Recent Council discussions have led to another benefit - the Florida Council has decided to distribute a portion of the surplus from SOUTHCON the Council's member sections, to assist their operations. Orlando has received a check for slightly over \$660, with smaller sections receiving proportionally larger amounts based on membership. Although this is a relative small amount considering our current financial status, bear in mind that for many sections who are not able to obtain revenue by hosting conferences, this may represent a significant portion of their operating expenses for the year, and may allow them to serve their membership more effectively. This precedent setting decision demonstrates the Florida Council's desire to nurture and assist sections statewide, and we should look forward to further beneficial interactions, both with the Council and with other Florida sections.









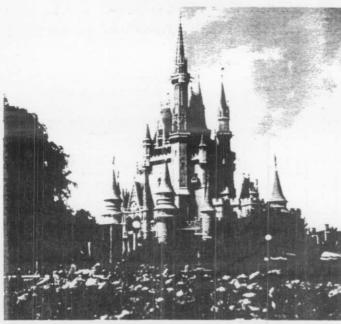


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	Please send complete APEC '94	conference information	exhibit information	
)	Name/Title			
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EVENTS CALENDAR

IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 Jan 4 Jan 11 IEEE Consultants' Network - Taxes: Business Structure, Business Expenses and Tax Law Changes - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Jan 18 SOUTHCON - Manuscripts Due - UCF, I. Batarseh, (O) 407-823-0185, Fax (310) 641-5117 Jan 31 IEEE SP - Image Processing Applications to Face Detection & Recognition - Hewlett Packard, T. Young (O) 356-8865 Feb 1 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 IEEE UFFC - Surface-Acoustic-Wave Devices: Fundamentals, Currents Status, and Future Trends - J. Mink (O) 886-8860 Feb 3 Feb 7-11 Software Quality Engineering - Software Test & Evaluation Courses - Radisson Inn Main Gate, 1-800-423-8378 IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Feb 8 GLOBECOM '94 - Complete Manuscript Due - D. Harris, Box P, Stanford Univ., Stanford, CA 94309, (415) 725-9868 Feb 12 APEC '94 - 1994 IEEE Applied Power Electronics-Conference and Exposition - Walt Disney World Resort, Orlando Feb 13-16 Feb 14-18 IEEE COM - MONS '94 - 1994 IEEE Network Operations and Management Symposium - Hyatt Orlando Hotel, Kissimmee Feb 20-26 NATIONAL ENGINEERS WEEK

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

The Orlando Section

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S.

M.

IEEE

THE Volume XXVII, Number 7



The Newsletter of the Orlando Section of the IEEE

February 1994

The Orlando Section of the Institute of Electrical and Electronics Engineers
Announces the

1994 IEEE Orlando Section

Awards Banquet

Saturday, February 19th, 1994

Maison & Jardin Restaurant

430 S. Wymore Road, Altamonte Springs

Program:

6:00 PM - Cocktails (Cash Bar) 7:00 PM - Dinner

Presentation of Awards:

Chapter Engineer-of-the-Year Awards
Outstanding Student Award
Outstanding Section Awards
Florida Council IEEE Awards

This is an excellent opportunity to meet other members of the Orlando engineering community. For reservations or additional details please contact Dr. Parveen Wahid at 823-2610 or 677-0571

	R	eservation Form		
Please m	ake reservation(s) for	or the 1994 IEEE Orlando Awards Banquet. My		
check for* \$ (\$23 each) is enclosed. Make check payable to IEEE. Choice				
of Entree	of Entree: [] Sauteed Breast of Chicken with Wild Mushrooms & Fontina Cheese			
[] Marin	Marinated Roast Top Sirloin of Beef with Pink and Green Peppercorn Sauce			
Mail to:	IEEE Awards Banquet			
	c/o Dr. Parveen Wahid	Name:		
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	Orlando, FL 32817	Phone:		
	823-2610 or 677-0571	* No Charge to IEEE Orlando Section Fellows		

Reservations must be received no later than February 15th, 1994

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

Accounting Systems for Consulting Engineers

Program: A description of manual and computerized accounting systems (checkwriting, intermediate and high end) for consulting engineers will be presented.

Speaker: Mr. Kenneth E. Norquist, Partner of

Medina, Norquist & Associates

Date: Tuesday, February 8th, 1994

Time: Meeting at 6:00 PM, Presentation at

:30 PM ocation: Orlando Pul

Location: Orlando Public Library, 3rd. Floor **Contact:** Please RSVP to Jorge Medina at 260-1676, ext. 400.

SIGNAL PROCESSING

Image Processing Applications to Face Detection and Recognition

Speaker: Dr. Thomas Huang, SP Distinguished Lecturer, Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign

Date: Monday, January 31st, 1994

Time: 5:30 PM Refreshments, 6:30 PM Lecture Location: Hewlett Packard on Lake Ellenor Drive Contact: Please RSVP to Tim Young (O) 356-8865 or leave message at 260-1716, ext. 280.

Image Compression Techniques

Speaker: Mr. Shomit Ghosh, UCF EECS Department

Date: Thursday, February 24th, 1994

Time: 5:30 PM Refreshments, 6:00 PM Lecture

Location: UCF CEBA I Room 407

Contact: Please RSVP to Tim Young (O) 356-8865 or leave message at 260-1716, ext. 280.

See Meeting Announcements, page 3

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Region 03 Council 05 Section 51

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(VM) 500, (O) 823-5338, (H) 275-2665

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Strategic Plan.: Dave King, Datacube, Inc.
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Jacqueline H. Hines, Section Chairman
CHAIRMAN'S CORNER

appy New Year! I hope everyone had a relaxing and enjoyable holiday season, and I'm sure you are all looking forward to an active and exciting IEEE year in 1994.

Southcon '94 is coming up soon - March 29-31 - and will be held in the Orange County Convention Center. The advance program booklets are complete, and the convention should provide an exciting opportunity to learn about current research and applications in a number of technical areas. Over 350 companies will have exhibits, featuring Components; EDA Tolls and Software; Systems and Subsystems; Test and Measurement Equipment; and Production Equipment, Materials and Services. Additionally, over 100 technical presentations will be given, with 5 keynote speakers and 10 tutorials. Tutorial topics include Neural Networks, Power Electronics, Electromechanical Actuation, Electric Vehicles, SPICE Modeling and Simulation, parallel Computing, DSP, Worst Case Circuit Analysis, Surface Mount Technology, and TQM/SPC. The conference will highlight electric vehicle technology, and includes an alternative energy auto rally, the "FEC SunDay Challenge". Orlando Section members interested in volunteering to help during the conference may be able to receive complementary registrations. Anyone interested in volunteering or obtaining additional information should contact Dr. Issa Batarseh at 823-0185.

Regarding conference participation and sponsorship, the Section will serve as a partner in sponsoring the World Congress on Computational Intelligence in Orlando in late June of 1994. The first of its kind, this conference will provide a unique forum for technical discussions relating to neural networks, fuzzy logic, and evolutionary com-

puting. The section participation will include volunteers during the conference, assistance with local arrangements and guest social programs, and publicity. Anyone interested in volunteering or obtaining more information can contact Dr. Ratan Guha. The section executive committee voted to put together a proposal to bring the PE conference in 2000 in Orlando, and SOUTH-EASTCON may now be in Orlando in 1997, rather than 1999. More on these conferences later. Dr. Issa Batarseh has volunteered to coordinate the Section's activities for these two conferences. As in the case of the World Congress on Computational Intelligence, these conferences are not only forums for outstanding technical interactions, but also opportunities for significant revenue generation for the Section, and would allow us to provide funds for uses that would benefit the Section membership.

Finally, the 1994 Section Awards Banquet is scheduled for Saturday, February 19, 1994, at Maison & Jardin Restaurant in Altamonte Springs. A cocktail hour with cash bar will begin at 6:00 PM, with dinner planned for 7:00 PM. This promises to be an enjoyable evening, with several selections from Maison & Jardin's delectable menu. As always, vegetarian meals can be arranged given advance notice. The cost for this banquet is \$23.00 per person. Everyone interested in attending should return the response portion of the reservation form in this newsletter to Dr. Parveen Wahid, or call her at 823-2610 for reservations. I look forward to seeing you there!

Formation of the Alliance of IEEE Consultants' Networks (AICN) and its Coordination Committee (AICNCC)

Jorge Medina, Orlando CN Chairman

The United States Activities Board (USAB) of IEEE approved the establishment of an alliance of the local consultants' networks and a Coordinating Committee which will exist as a chartered committee within the Member Activities Council of USAB. Full committee members will meet periodically to coordinate IEEE Activities and projects oriented toward self-employed members. Corresponding members will received all mailings and be asked to comment. The first 1994 national newsletter is almost ready for printing and mailing. Watch for it!

Meeting Announcements

(continues from Page 1)

ELECTRON DEVICES/ COMPONENTS, HYBRID & MANUFACTURING TECHNOLOGY

What is all this about GaAs?

Program: One hour video technical

tutorial seminar

Date: Wednesday, February 16th,

1994

Time: 6:00 PM

Location: UCF, College of Engi-

neering, Room 288

Contact: K.B. Sundaram (O) 823-5326 or leave message at 260-1676,

ext. 250.

ULTRASONICS, FERROELECTRICS, AND FREOUENCY CONTROL

Distinguished Lecturer Banquet 1994

Surface-Acoustic-Wave Devices: Fundamentals, Current Status and Future Trends

Speaker: Dr. Eric L. Adler, Fellow,

IEEE

Date: Monday, February 3rd, 1994

Time: 6:30 PM for Dinner, 7:30 PM

Lecture

Location: Lee's Lake Side restau-

rant by Lake Eola, Orlando

Contact: Please RSVP by Jan. 18th, to Jeff Mink or Mike Garrity (407)

886-8860.

Time Domain Finite Element Electromechanical Modeling

Speaker: Mr. Gregory L. Wojick Date: Friday, February 25th, 1994

Time: 10:00 AM

Location: Sawtek, Inc.

Contact: Please RSVP to Tom Voor

(407) 886-8860

WORKSHOP ON IMPROVING PRODUCT AND PROCESS QUALITY USING EXPERIMENT DESIGN

April 25 - 29, 1994

Howard Johnson Hotel, Lake Buena Vista, Florida

Sponsored by the National Institute of Standards and Technology (NIST), an agency of the Department of Commerce. NIST promotes U.S. economic growth by working with industry to develop and apply technology, measurements, and standards.

This workshop covers the fundamental principles and techniques of efficient experiment design--a rigorous strategy for conducting an experimental investigation. A "good" design yields unambiguous scientific and engineering conclusions with a minimal amount of experimental effort. The widespread development and use of runefficient designs is one of the major reasons for Japanese breakthroughs in quality engineering and has been "standard operating procedure" in the Japanese engineering community for the last 20 years.

The workshop covers specific designs that have proven best for three very important problems:

- ferreting out the most important parameters from a large number of potential parameters
- converging to an optimal operating condition starting from a "best guess"
- identifying settings of controllable parameters that reduce product and process variation (Taguchi's quality engineering approach)

This workshop is for engineers in research and development or manufacturing with a goal of improving product and process quality.

For more information contact Eric Lagergren by phone at (301) 975-3245 or e-mail at lager@cam.nist.gov.

IEEE Orlando Section

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Jan	31	IEEE SP - Image Processing Applications to Face Detection & Recognition - Hewlett Packard, T. Young (O) 356-8865
Feb	1	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604
Feb	3	IEEE UFFC - Surface-Acoustic-Wave Devices: Fundamentals, Currents Status, and Future Trends - J. Mink (O) 886-8860
Feb	7-11	Software Quality Engineering - Software Test & Evaluation Courses - Radisson Inn Main Gate, 1-800-423-8378
Feb	8	IEEE CN - Accounting Systems for Consulting Engineers - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676
Feb	12	GLOBECOM '94 - Complete Manuscript Due - D. Harris, Box P, Stanford Univ., Stanford, CA 94309, (415) 725-9868
Feb	13-16	APEC '94 - 1994 IEEE Applied Power Electronics Conference and Exposition - Walt Disney World Resort, Orlando
Feb	14-18	IEEE COM - NOMS '94 - 1994 IEEE Network Operations and Management Symposium - Hyatt Orlando Hotel, Kissimmee
Feb	16	IEEE ED/CHMT - What is all this about GaAs? - UCF, K.B. Sundaram (0) 823-5326
Feb	19	IEEE Orlando Section - Awards Banquet - Maison & Jardin, P. Wahid, (O) 823-2610, (H) 677-0571
Feb	20-26	IEEE - National Engineers Week
Feb	24	IEEE SP - Image Compression Techniques - UCF, T. Young (O) 356-8865
Feb	25	IEEE UFFC - Time Domain Finite Element Electromechanical Modeling - T. Voor (O) 886-8860
Mar	1	IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, , (O) 886-8860, (H) 628-1604
Mar	8	IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676
Mar	29-31	REGION 3, FCIEEE - SOUTHCON '94 - Orange County Convention/Civic Center, Orlando

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We offer unemployed Orlando Section members an opportunity to run a **FREE** position wanted ad in the Orlando Section Monthly. Write your own ad copy and mail or fax it to the Orlando Section Monthly editorial office. Your ad will appear in the next available issue.

Southcon/94 Electronics Show and Convention

March 29-31, 1994
Orange County Convention Center
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- · EE experience.

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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

IEEE

CONPRO: Consulting Professional Advisories

Program: A presentation about consulting professional advisories (self assessment, self marketing, work standards, access to funding, taxes, long terms goals, etc.) for engineering, technical and managerial consulting professionals.

Speaker: Mr. John A. Connor, P.E. Date: Tuesday, March 8th, 1994
Time: Meeting at 6:00 PM, Presentation at 6:30 PM

Location: Orlando Public Library,

3rd. Floor

Contact: Please RSVP to Jorge Medina at 260-1676, ext. 400.

ULTRASONICS, FERROELECTRICS, AND FREQUENCY CONTROL

Time Domain Finite Element Electromechanical Modeling

Speaker: Mr. Gregory L. Wojick **Date:** Friday, February 25th, 1994

Time: 10:00 AM

Location: Sawtek, Inc.

Contact: Please RSVP to Tom Voor (O) 886-8860 or leave message at 260-1676, ext. 300.

POWER ENGINEERING/ INDUSTRIAL APPLICATIONS

Seminar: Recent Advances in Power Electronics

Business Meeting: Chapter Reorganiztion and Elections

Speaker: Dr. Issa Batarseh

Date: Tuesday, March 8 th, 1994

Time: 6:30 PM

Location: Orlando Utilities Commis-

sion

Contact: Issa Batarseh (O) 823-0185, (H) 366-6269, Gary Engmann (O) 240-9013, (H) 521-7985 or leave message at 260-1676, ext. 620.

COMMUNICATIONS/ VEHICULAR TECHNOLOGY

General Meeting - Preparation for Chapter Election sand General Discussion

Date: Thursday, March 10th, 1994 Time: 6:00 PM

Location: Amigos Restaurant, 494 North Semoran Blvd., Winter Park Contact: Please RSVP to Michael Germain (O) 1-904-326-1483, (H) 678-5599 or leave message at 260-1676, ext. 240.

SIGNAL PROCESSING

Image Compression Techniques

Speaker: Mr. Shomit Ghosh, UCF EECS Department

Date: Thursday, February 24th, 1994 **Time:** 5:30 PM Refreshments, 6:00 PM Lecture

Location: UCF CEBA I Room 407 Contact: Please RSVP to Tim Young (O) 356-8865 or leave message at 260-1676, ext. 280.

Geometrical Ideas in Signal Processing

Speaker: Dr. Louis Scharf, SP Distinguished Lecturer, University of Colorado

Date: Thursday, March 24th, 1994 **Time:** 5:30 PM Refreshments, 6:00 PM Lecture

Location: Hewlett Packard on Lake Ellenor Drive

Contact: Please RSVP to Tim Young (O) 356-8865 or leave message at 260-1676, ext. 280.

See Meeting Announcements, page 3

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Events Ca	lendar	4
Meeting A	nnouncements (cont.)	

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Advisor: Dr. Mario Sznaier, UCF, (H) 366-5694 Chairman: Debra Kemnitz, UCF, (H) 658-4595 (H) 366-7952 SRC: Scott Harrell, UCF,

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Jacqueline H. Hines, Section Chairman

CHAIRMAN'S CORNER

r. Ali Atashroo has the Section email bulletin board functional, with a dedicated phone line providing full-time access to the system. Members can call in at (407) 539-0884 to leave messages and peruse those left by other section members. During the next month, the system will be upgraded to operate on O/S2 for Windows, allowing system maintenance to be performed without taking the system off-line.

The Student Chapter of IEEE at UCF is very active this year. They meet weekly, often with meeting attendance of 30 or more people! Advisors Dr. Sam Richie and Dr. Ron DeMara have facilitated the groups efforts, encouraging activities such as "PC Kindergarten" for lessthan-literate would-be computer users, and a number of other creative projects. The students plan to fill a tented pavilion provided by the Orlando Section with projects for Engineer's week at UCF. Included will be several attention getting items, including the UCF Micro-Mouse, robot, and a Van de Graff generator to give the visiting high school students a "charge". This is the type of involvement the Section likes to see - - keep it up, students!!

SOUTHCON '94 is coming up soon -March 29-31 - and will be held in the Orange County Convention Center. The conference should provide an exciting opportunity to learn about current research and applications in a number of technical areas. Over 350 companies will have exhibits, featuring Components; Systems and Subsystems; Test

and Measurement Equipment; and Production Equipment, Materials and Services. Additionally, over 100 technical presentations will be given, with 5 keynote speakers and 10 tutorials. Tutorial topics include Neural Networks, Power Electronics, Electromechanical Actuation, Electric Vehicles, SPICE Modeling and Simulation, parallel Computing, DSP, Worst Case Circuit Analysis, Surface Mount Technology, and TOM/SPC. As a special bonus for Orlando Section IEEE members, five of the tutorials will be offered at a reduced fee - - - even if you register late - - - see the enclosed newsletter insert for details. The conference will highlight electric vehicle technology, and includes an alternative energy auto rally, the "FEC SunDay Challenge". A large number of members of the Orlando Section will present technical sessions and short courses at SOUTH-CON. Orlando Section members interested in volunteering to help during the conference or obtaining additional information should contact Dr. Issa Batarseh at 823-0185.

The World Congress on Computational Intelligence will be held in Orlando in late June of 1994. This conference will provide a unique forum for technical discussions relating to neural networks, fuzzy logic, and evolutionary computing. The section participation will include volunteers during the conference, assistance with local arrangements and guest social programs, and publicity. Anyone interested in volunteering or obtaining more information can contact Dr. Ratan Guha.

Finally, I would like to encourage all Chapter Chairmen to attend the Executive Committee meetings. The meeting on February 1 had a very low attendance, and since we did not have a quorum, several issues could not be brought to a vote. These items will be discussed again at the March meeting. I hope to see all of you there -- we need your continued help to succeed!

Meeting Announcements

(continues from Page 1)

CONSULTANTS NETWORK and COMMUNICATIONS/ VEHICULAR TECHNOLOGY Joint Meeting

Portable Pension Plans

Speaker: Mr. George McClure **Date:** Tuesday, April 12th, 1994

Time: Meeting at 6:00 PM, Presentation at

6:30 PM

Location: Orlando Public Library, 3rd. Floor Contact: Please RSVP to Jorge Medina at

260-1676, ext. 400.

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WORKSHOP ON IMPROVING PRODUCT AND PROCESS QUALITY USING EXPERIMENT DESIGN

April 25 - 29, 1994

Howard Johnson Hotel, Lake Buena Vista, Florida

Sponsored by the National Institute of Standards and Technology (NIST), an agency of the Department of Commerce. NIST promotes U.S. economic growth by working with industry to develop and apply technology, measurements, and standards.

This workshop covers the fundamental principles and techniques of efficient experiment design--a rigorous strategy for conducting an experimental investigation. A "good" design yields unambiguous scientific and engineering conclusions with a minimal amount of experimental effort. The widespread development and use of runefficient designs is one of the major reasons for Japanese breakthroughs in quality engineering and has been "standard operating procedure" in the Japanese engineering community for the last 20 years.

The workshop covers specific designs that have proven best for three very important problems:

- ferreting out the most important parameters from a large number of potential parameters
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Feb 24 IEEE SP - Image Compression Techniques - UCF, T. Young (O) 356-8865 IEEE UFFC - Time Domain Finite Element Electromechanical Modeling - T. Voor (O) 886-8860 Mar 1 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, , (O) 886-8860, (H) 628-1604 IEEE Consultants' Network - Consulting Professional Advisories - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Mar 8 IEEE PE/IA - Recent Advances in Power Electronics - Orlando Utilities Commission, I. Batarseh, (O) 823-0185, (H) 366-6269 Mar 8 Mar 10 IEEE COM/VT - General Meeting _ Preparation for Chapter Elections - Amigos Restaurant, M. Germain, (O) 1-904-326-1483 IEEE SP - Geometrical Ideas in Signal Processing - Hewlett Packard, T. Young (O) 356-8865 Mar 24 REGION 3, FCIEEE - SOUTHCON '94 - Orange County Convention/Civic Center, Orlando Mar 29-31 Apr 5 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, , (O) 886-8860, (H) 628-1604 IEEE CN/COM/VT - Portable Pension Plans - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Apr 12 NIST - Improving Product & Process Quality Using Experiment Design - Lake Buena Vista, E. Lagergren 301-975-3245 Apr 25-29 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, , (O) 886-8860, (H) 628-1604 May 3 IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 May 10 Jun 7 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, , (O) 886-8860, (H) 628-1604 Jun 14 IEEE Consultants' Network - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Jun 26 - Jul 2 IEEE NNC - World Congress on Computational Intellegence - Walt Disney World Dolphin Hotel, (714) 752-8205

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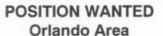
Southcon/94 Electronics Show and Convention

March 29-31, 1994 Orange County Convention Center Orlando, Florida

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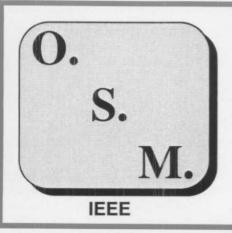
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- Extensive PC experience: DOS and Windows.
- · Eight years college teaching experience.
- · EE experience.

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THE **ORLANDO SECTION** MONTHI



The Newsletter of the Orlando Section of the IEEE

April 1994

IEEE Orlando Section 1994 Awards Banquet

The 1993 Awards Banquet was held on February 19th at the Maison & Jardin Restaurant and attended by over 80 people. The Orlando Section gave six student awards, twelve Chapter Engineer-of-the-Year awards, and three important Section awards. In addition, the Orlando Section was pleased to have Mr. Dorrel Shirley from the Florida Council of IEEE to present three Outstanding FCIEEE awards to Orlando Section members, who were selected from all of the Sections in the State of Florida.

Student Awards

Each year the Orlando Section presents an award to the Outstanding Graduate and Undergraduate Student in Electrical Engineering, and in Computer and SRC chapters. This year's winners were presented with a certificate and a \$50 check from the Orlando Section. They were the following:

Outstanding Undergraduate Student in C Mr. Michael Smith Outstanding Graduate Student in C Mr. Glenn Martin Outstanding Undergraduate Student in EE Mr. Richard Heckenstaller Outstanding Graduate Student in EE Mr. Charles Fulks Outstanding Undergraduate Students in SRC

Mr. Wayne Haney and Mr. Joe Martinez Chapter Engineer-of-the-Year Awards

The Chapter Engineer-of-the-Year awards are designed to recognize members of the Orlando Section who, through their technical and professional abilities, have made outstanding contribution to their profession. Evaluation criteria include: importance of technical contribution, output of patents, proprietary design, papers, and technical presentation, service to the IEEE, and service to the engineering profession. Nominations for the Engineer-of-the-Year awards came primarily from the 12 chapters in the Orlando Section. The Chapter Engineer-of-the-Year awards were as follows:



Dr. Ali Atashroo (left), Awards Chairman, presents the Outstanding Engineering Educator Award to Dr. Madjid A. Belkerdid

AES	Dr. Gerald C. Holst
AP/MTT	Mr. Mark Crockett
COM/VT	Mr. George F. McClure
C	Dr. Narsingh Deo
ED/CHMT	Mr. Anthony Frangoul
LEOS	Dr. M. G. Moharam
PE/IA	Mr. Bob Nelson
SP	Mr. Albert P. Berg, IV
SRCDr.	Michael Georgiopoulos
UFFC	Dr. Roy B. Brown
CNWG	Mr. Bruce Blais
NNWG	Mr. Parag Karkhanis

Outstanding Orlando Section Awards

Again this year, there were many excellent and well qualified nominations for the two Section Awards. The Orlando Section Outstanding Engineering Educator award is designed to recognize Orlando Section members who, through their academic contributions, have enhanced the engi neering profession. This year's winner is Dr. Madjid A. Belkerdid.

The Orlando Section Outstanding Engineer award



Dr. Ali Atashroo (left), Awards Chairman, presents the Outstanding Engineer Award to Dr. Gerald C. Holst

is designed to recognize Orlando Section members who through their technical and professional abilities have made outstanding contributions to their profession. This year's winner is Dr. Gerald C. Holst.

IEEE Florida Council Awards

Each year the Florida Council of the IEEEgives awards for Outstanding Engineer. Outstanding Engineering Educator, and Outstanding Service. The Orlando Section nominates the Section award winners from last year for the FCIEEE awards and also for the Region 3 awards of the same names. This year the nominees from Orlando won all three FCIEEE awards. Mr. Dorrel Shirley Vice Chairman of the FCIEEE. presented these awards:

> Outstanding Engineering Educator Dr. J.S. (Peter) Yuan Outstanding Engineer Dr. Marion John Soileau Outstanding Service Dr. David F. Flinchbaugh



Mr. Dorrel Shirley (left), FCIEEE Vice Chair.; Dr. J.S. Yuan, Outstanding FCIEEE Engineering Educator; Dr. Marion J. Soileau, FCIEEE Outstanding Engineer; Dr. Narsingh Deo, Computer Engineer of the Year; and Dr. David F. Flinchbaugh, FCIEEE Outstanding Service

Special thanks goes to Dr. Ali Atashroo for preparing all the certificates and plaques and serving as Master of Ceremonies, to Dr. K.B. Sundaram, who provided photographic coverage throughout the ceremonies. And special thanks to the Section's programs Chairperson, Dr. Parveen Wahid, for making all the arrangements. The Section thanks the nominees, Chapter Chairpersons, and members of the Awards Committee for all the help they provided in supporting the 1994 IEEE Orlando Section Awards nomination.

IEEE ORLANDO SECTION

Region 03 Council 05 Section 51

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Jacqueline H. Hines, Section Chairman

CHAIRMAN'S CORNER

he tented pavilion provided by the Orlando Section was filled by the student members with projects for Engineer's week at UCF. Included were the UCF Micro-Mouse, robot, and a Van de Graff generator. The students also handed out bumper stickers that say "UCF and IEEE - get a charge out of life." Unfortunately, rain caused the group to move indoors during the afternoon, but all in all, it was a fairly successful attempt to bring IEEE to the attention of younger engineering students and high schoolers.

Dr. Ali Atashroo has the Section e-mail bulletin board functional, with a dedicated phone line providing full-time access to the system. Members can call in at (407) 539-0884 to leave messages and peruse those left by other section members. There may be some brief downtime during the next month while Ali modifies the operating system, so please be patient and try back if you can't get through at first.

The World Congress on Computational Intelligence will be held in Orlando in late June of 1994. This conference will provide a unique forum for technical discussions relating to neural networks, fuzzy logic, and evolutionary computing. The section participation will include volunteers during the conference, assistance with local arrangements and guest social programs, and publicity. Anyone interested in volunteering or obtaining more information can contact Dr. Ratan Guha.

In addition to the World Congress, the Section has several other conferences under consideration for the next few years. One new addition is the National Telecommunications Conference (NTC), proposed for 1995. This conference would run in conjunction with the MTT Symposium, and would be financially supported by the Section. Section volunteers would also provide services to plan and run the conference. Anyone interested in volunteering, please contact Dr. Parveen Wahid at 823-2610.

Finally, I would like to encourage all Chapter Chairmen to continue to attend the Executive Committee meetings. The meeting on March 1 did have a quorum, and I appreciate those of you who attended. This meeting adjourned at 7:30 PM, and I will try to see to it that future meetings are similar in length. Our next meeting is April 5, and I hope to see all of you there -- we need your continued help to succeed!

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.

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ACM SIGPLAN Conference on

Programming Language Design and Implementation (PLDI'94)

Walt Disney World Village, Orlando, Florida, June 20-24, 1994

ADVANCE PROGRAM

Wednesday, June 22

Invited Presentation - "Principled Design of Programming Languages" by Guy L. Steele Jr., Thinking Machines Corporation

"Is Continuation-Passing Useful for Data Flow Analysis?" A. Sabry, M. Felleisen

"Separate Compilation for Standard ML" A. Appel, D. MacQueen

"Lazy Functional State Threads" J. Launchbury, S. Jones

"VLIW Compilation Techniques in a Superscalar Environment" K. Ebcioglu, R. Groves, K. Kim, G. Silberman, I. Ziv

"Link-Time Optimization of Address Calculation on a 64-bit Architecture"
A. Srivastava, D. Wall

"Division by Invariant Integers using Multiplication" T. Granlund, P. Montgomery

"Precise Compile-Time Performance Prediction for Superscalar-Based Computers" K. Wang

"Accurate Static Estimators for Program Optimization" T. Wagner, V. Maverick, S. Graham, M. Harrison

"Improving Semi-static Branch Prediction by Code Replication" A. Krall

"Give-N-Take--A Balanced Code Placement Framework" R. Hanxleden, K. Kennedy

"Counting Solutions to Presburger Formulas: How and Why" W. Pugh

"Parallelizing Complex Scan and Reduction Operations" A. Fisher, A. Ghuloum

Student Research Forum

Thursday, June 23

"Partial Dead Code Elimination" J. Knoop, O. Ruthing, B. Steffen

"Effective Partial Redundancy Elimination" P. Briggs, K. Cooper

"The Program Structure Tree: Conquering Control Regions in Linear Time" R. Johnson, D.Pearson, K. Pingali "Memory Access Coalescing: A Technique for Eliminating Redundant Accesses" by J.Davidson, S. Jinturkar

"ATOM: A System for Building Customized Program Analysis Tools" A. Srivastava, A. Eustace

"Measured Cache Performance of Scheme Programs" M. Reinhold

"A General Data Dependence Test for Dynamic, Pointer-Based Data Structures" J. Hummel, L. Hendren, A. Nicolau

"Interprocedural May-Alias Analysis for Pointers: Beyond k-limiting" A. Deutsch

"Context-Sensitive Interprocedural Points-to Analysis in the Presence of Function Pointers" M. Emami, R. Ghiya, L. Hendren

"Zero-cost Range Splitting" S. Kurlander, C. Fischer

"Register Allocation over the Program Dependence Graph" C. Norris, L. Pollock

Pleasure Island Outing

Friday, June 24

"Debugging of Globally Optimized Programs Using Data Flow Analysis" R. Wismueller

"Efficient Detection of All Pointer and Array Access Errors" T. Austin, S. Breach, G. Sohi

"On Slicing Programs with Jump Statements" H. Agrawal

"Optimal Tracing and Incremental Reexecution for Debugging Long-Running Programs" R. Netzer

"Optimizing Dynamically-Dispatched Calls with Run-Time Type Feedback" U. Hoelzle, D. Ungar

"Type Analysis of Prolog using Type Graphs" P. Van Hentenryck, A. Cortesi, B. Le Charlier

"Backtracking without Trailing in CLP(R-Lin)" P. Van Hentenryck, V. Ramachandran

TUTORIALS

Functional Programming Languages, Benjamin Goldberg, New York University, (Monday, June 20, 9:00-12:00)

Object Oriented Language Paradigm and C++, Stan Lippman, AT&T Bell Laboratories, (Monday, June 20, 1:30-4:30)

A Perspective on Languages and Compilers, Francis Allen, IBM T.J. Research Center, Monday, June 20, 5:00-6:00)

Compiler Construction, Ron Cytron, Washington University, (Tuesday, June 21, 8:30-12:30)

Compiling for Parallelism, Guy L. Steele Jr., Thinking Machines Corporation, (Tuesday, June 21, 2:00-5:00)

To increase the representation of women and minorities in computer science, a grant was awarded by NSF to provide a limited number of travel grants to faculty from undergraduate minority and women's colleges and universities. Registration fee scholarships will be provided by SIGPLAN for the faculty awarded these travel grants. More information on application procedures can be found via the anonymous ftp address at the bottom of this ad.

STUDENT RESEARCH FORUM

The Student Research Forum on Wednesday, June 22, 1994, provides an opportunity for graduate students attending PLDI'94 to discuss their research at poster sessions. This two hour evening event will feature concurrent short presentations by student participants organized in poster formats. Students who wish to present a poster display of their research can obtain more information via the ftp address at the bottom of this ad (deadline April 15, 1994).

WORKSHOPS

ACM SIGPLAN Workshop on Language, Compiler and Tool Support for Real-Time Systems, June 21, 1994

Program Co-Chairs: Thomas Marlowe (Seton Hall University) marlowe@cs.rutgers.edu, William Pugh (University of Maryland) pugh@cs.umd.edu ACM SIGPLAN Workshop on ML and its Applications, June 25-26, 1994

Program Chair: Didier R'emy (INRIA) Didier.Remy@inria.fr Workshop Chair: John Reppy (AT&T Bell Laboratories) jhr@research.att.com

ACM SIGPLAN Workshop on Partial Evaluation and Semantics-based Program Manipulation, June 25, 1994

Program Co-Chairs: Peter Sestoft (Technical U. of Denmark) sestoft@id.dth.dk, Harald Sondergaard (U. of Melbourne) harald@cs.mu.oz.au

GENERAL INFORMATION

Program Committee: Vivek Sarkar, IBM Santa Teresa Lab, vivek_sarkar@vnet.ibm.com (chair) Conference Co-Chairs: Barbara Ryder, Rutgers University Craig Chambers Rajiv Gupta François Irigoin Peter Markstein ryder@rutgers.edu Tom Marlowe James McGraw Mary Lou Soffa, University of Pittsburgh Rishiyur Nikhil Anne Rogers Linda Torczon soffa@cs.pitt.edu G. A. Venkatesh Michael Wolfe Benjamin Zom

Registration Information - In order to register, obtain a registration form at the anonymous ftp address below or fax a request for a form to (407) 628-3186. Hotel Reservations - The conference hotel is Lake Buena Vista Hilton in Lake Buena Vista, Florida. Call 1-800-782-4414 to make reservations. Be sure to identify the reservation as with the group ACM-SIGPLAN.

More information about PLDI'94 - All information and documents concerning PLDI'94 and Disney information can be obtained in electronic form via the anonymous ftp from speedy.cs.pitt.edu:pub/pldi94. The index of information can be found in file READ_ME in the ftp directory.

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.

ELECTRON DEVICES/ COMPONENTS, HYBRIDS AND MANUFACTURING TECHNOLOGY

Series Resistance and Effective Channel Length Extraction on MOSFET Devices

Speaker: Dr. A. Ortiz-Conde, UCF, EECS Dept.

Date: Wednesday, April 13th, 1994 Time: 6:00 PM. Refreshments will be available

Location: UCF, CEBA I, Room 407 Contact: Dr. K.B. Sundaram 823-5326 (O), or leave message at 260-1676, ext. 250.

SIGNAL PROCESSING

Geometrical Ideas in Signal Processing

Speaker: Dr. Louis Scharf, SP Distinguished Lecturer, University of Colorado

Date: Thursday, March 24th, 1994 Time: 5:30 PM Refreshments, 6:00 PM Lecture

Location: H-P on Lake Ellenor Drive

Lossless Compression Techniques

Speaker: Mr. Albert Berg, Martin Mari-

Date: Thursday, April 21, 1994

Time: 5:30 PM Refreshments, 6:00 PM Lecture

Location: UCF, Eng. Bldg. Room 407

Officer Elections and Radar Signal Processing

Speaker: Mr. Jim Hughen, Martin Marietta

Date: Thursday, May 19th, 1994 Time: 5:30 PM Refreshments, 6:00 PM

Lecture

Location: UCF, Eng. Bldg. Room 407 Contact: Please RSVP to Tim Young (O) 356-8865 or leave message at 260-1676, ext. 280.

ALLIANCE OF THE IEEE CONSULTANT'S NETWORK and

COMMUNICATIONS/ VEHICULAR TECHNOLOGY Joint Meeting

IEEE Member Benefits

Topic: IEEE member benefits will be the subject of a talk by George McClure. The present insurance program, credit card, and new benefits in the offing will be described, including the IEEE Travel Service. Special insurance needs of consultants will be discussed, with an opportunity for members present to provide feedback on new requirements for benefits that IEEE might fulfill.

Speaker: Mr. George F. McClure Date: Tuesday, April 12th, 1994 Time: 6:00 PM Meeting, 6:30 PM Lec-

Location: Orlando Public Library, 3rd. Floor

Contact: Please RSVP to Jorge Medina at 260-1676, ext. 400.

IEEE-USA INTRODUCES NEW JOB REFERRAL SERVICE

The IEEE U.S. Activities is offering members and their families a new, inexpensive job referral service in conjunction with JOB BANK USA, one of the nation's premier employment data base companies. Their career advancement service combines the speed and efficiency of a state-ofthe-art computerized data base with a large client base of employers throughout the nation.

Until March 31, 1994, IEEE members and members of their families can enroll at an introductory rate of only \$27.00 - 65% less than the nonmember price of \$75.00. After March 31, IEEE members will be eligible for a special, but slightly higher, rate. For more information and a Career Advancement Service enrollment form, call JOB BANK USA toll-free at 1-800-296-1872, and indicate IEEE affiliation.

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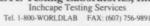
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IEEE SP - Geometrical Ideas in Signal Processing - Hewlett Packard, T. Young (O) 356-8865 Mar 24 Mar 29-31 REGION 3, FCIEEE - SOUTHCON '94 - Orange County Convention/Civic Center, Orlando Apr 5 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 Apr 12 IEEE AICN/COM/VT - IEEE Member Benefits - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 IEEE ED/CHMT - Series Resistance & Effective Channel Length Extraction on MOSFET Devices - UCF , CEBA I Room 407, Apr 13 K. Sundaram, (O) 823-5326 IEEE SP - Lossless Compression Techniques - UCF, Engineering Bldg. Room 407, T. Young (O) 356-8865 Apr 21 Apr 25-29 NIST - Improving Product & Process Quality Using Experiment Design - Lake Buena Vista, E. Lagergren 301-975-3245 May 3 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 May 10 IEEE AICN - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 IEEE SP - Radar Signal Processing - UCF, Engineering Bldg. Room 407, T. Young (O) 356-8865 May 19 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 Jun 7 IEEE AICN - Section 1706 of the Tax Reform Act of 1986 - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Jun 14 ACM - Programming Language Design and Implementation - Walt Disney World Village, Orlando, (407) 628-3186 Jun 20 - 24 Jun 26 - Jul 2 IEEE NNC - World Congress on Computational Intelligence - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205

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POSITION WANTED

Ph.D. Candidate graduating in May is seeking a position requiring expertise in Neural Networks, Pattern Recognition, Image/Signal Processing, or Spread Spectrum Communications.

Contact Ms. Juxin Huang at (407) 282-3576 (H), (407) 823-0016 (O) or jnh@engr.ucf.edu

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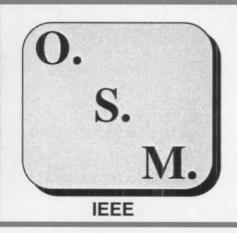
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FRESH UCF Graduate - BSEE

10 year Navy veteran, bright, dedicated, eager to gain experience in Communications and Software Engineering.

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THE **ORLANDO SECTION** MONT

The Newsletter of the Orlando Section of the IEEE

May 1994

Meeting A ouncements

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.

Consultant's Network

The Business of Troubleshooting

Topic: Many aspects of the business of troubleshooting will be discussed, including troubleshooting techniques and how it is done, some experiences in the field, together with finding prospects, approaching the customer, invoicing, contracts and finances. There will be ample opportunity given for questions and discussion.

Speaker: Mr. Peter Hoyles, Consultant Date: Tuesday, May 10th, 1994

Time: Meeting 6:00 PM, Presentation 6:30 PM

Location: Orlando Public Library, 3rd. Floor

Contact: Please RSVP to Jorge Medina

at 260-1676, ext. 400.

Signal Processing

Officer Elections and Radar Signal Processing

Speaker: Dr. Jim Hughen, Martin Marietta

Date: Thursday, May 19th, 1994 Time: Refreshments 5:30 PM.

Lecture 6:00 PM

Location: UCF, Eng. Bldg. Room 407

Contact: Please RSVP to Tim Young (O) 356-8865 or

260-1676, ext. 280.

Power Engineering/Industry Applications and **Power Electronics**

Joint Meeting

Power Quality Seminar

Topic: Power Quality, an overview of causes, effects

and mitigation.

Speaker: Mr. Bruce Ashley, P.E. Date: Tuesday, May 24th, 1994

Time: Dinner 6:00 PM, Meeting 7:00 PM

Location: Morrison's Cafeteria,

1840 East Colonial Drive, Orlando

Contact: Issa Batarseh 823-0185 (O), 366-6269 (H),

Gary Engmann 240-9013 (O), 521-7985 (H)

1994 IEEE Installation Banquet

6:00 PM, Sunday, June 12th, 1994

Lee's Lakeside Restaurant

431 East Central Boulevard, Orlando

Cost: \$25.00

For reservations or additional details please contact Dr. Parveen Wahid at 823-2610 (O) or 677-0571 (H)

May 1994

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Jacqueline H. Hines, Section Chairman

CHAIRMAN'S CORNER

S OUTHCON '94 sponsored by IEEE Region 3 and the Florida Council was held in the Orlando Civic Center

March 29-31, 1994. The conference was quite successful, and **Dr. Issa Batarseh** of the Orlando Section did an outstanding job as Professional Programs Coordinator. While attending the Florida Council and Region 3 meetings at SOUTHEASTCON in Miami April 9-10, a number of people made it a point to tell me what an exceptional job Dr. Batarseh did, and how well the technical program was received by those who attended. Thanks, Issa, and congratulations for a job well done!

The World Congress on Computational Intelligence sponsored by the IEEE Neural Network Council will be held June 25 - July 4, 1994 at the Walt Disney World Dolphin Hotel. The Orlando Section volunteer team will help with the operations. Section participation will include volunteers during the conference, assistance with local arrangements and guest social programs, and publicity. Anyone interested in volunteering or obtaining more information can contact Dr. Ratan Guha. In addition to the World Congress, the Section has several other conferences under consideration for the next few years. More details on these later.

Also, the IEEE Financial Advantage Program was highlighted at the Region 3 meeting. This program just keeps getting better and better! Now the benefits to IEEE members and families (which includes siblings and parents for most benefits - but not for insurance) include the excellent insurance we are familiar with, mortgages, loans, a number of investment funds, a no-annual-fee credit card (transfer balances would have a locked in rate of 8.9% until April 1995, purchases have a rate of about 13% now), the Quest International program (up to 50% off

at a number of hotels in the U.S. and internationally), Pennywise (additional 4-11% discount on office supplies plus no shipping fees in continental U.S.), discount long distance phone service, a phone "debit" card similar to those used in Japan (fixed value which is debited at use, can be restricted to only allow calling specific numbers, limits liability, etc.), a discount on Airborne Express, and even a 10% discount at Kinko's! The list just goes on and on. Here are more tangible benefits of being an IEEE member, so be sure to take advantage of them. The number to call for information on any of these programs is 1-800-GET-IEEE.

An issue of substantial importance to members of Region 3 was brought to the attention of the Section Executive Committee early this year, but I have withheld commenting on it in this forum until I could look into it a little further. However, after a number of discussions with various members of the Region 3 Executive Committee and others, I feel that the situation is of enough concern that all Orlando Section members should be aware of it. At the December Region 3 Executive Committee Meeting, a motion was made by Deborah Powers (now Region 3 Director) that the Executive Committee purchase laptop computers for voting members of the ExCom, and was amended to "approve in principle" the purchase pending investigation of the feasibility of the concept. The purchase would involve approximately 20-22 laptop computers (somewhat less if computers are not purchased for ExCom members who already have their own laptops - although this could introduce compatibility problems), and would entail the expenditure of roughly \$40,000 of Region 3 funds. That is approximately 25% of the entire financial resources of Region 3. The purpose for the purchase is to move toward "paperless" meetings, thus avoiding the expenses associated with copying and shipping of hard copies of reports, etc., and to increase the efficiency of Region 3 ExCom meetings. Now, while I happen to be a laptop junkie myself (I seldom go anywhere without my computer), I question the reasonability of expending such a large portion of Region resources on such a purchase. Although the Sections do not have any direct influence on whether such a purchase will be made or not, we can send our input on this issue to the Region ExCom members for consideration, and we can be sure our Florida Council representative, Jim Howard (the

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one voting member that represents us on the Council) is aware of our feelings on the issue. Since this issue will not be raised for a vote by the Region until this fall (at the earliest), we have a few months in which to contact the ExCom members, and this issue will be discussed in detail at the next Orlando Section ExCom meeting. Section members interested in knowing more (and there are several aspects to consider) are welcome to attend. A summary of the meeting proceedings regarding this topic will be published in the next issue of the newsletter. It may be advisable to postpone contacting region representatives until after this meeting, however any member who wants to contact the Region 3 ExCom can e-mail at reg03.excom@ieee.org . Contact information for regular mail can be found in the Region 3 newsletter, or feel free to call a member of the Section Executive board for contact information.

In case you are wondering what other issues were discussed at the Region meeting, there were several, of which the following are highlights. The Baton Rouge and New Orleans Sections has desired for some time to leave Region 3 and join Region 5. This has been an emotional issue for all involved, and has been actively discussed for about the last two years. Region 3 has now voted to allow the continuation of the process to transfer these sections, which may ultimately lead to a vote by the members at large to resolve this question. A Region 3 special project is well underway to provide an employer database for use by members who are searching for new positions. A demonstration of the computerized search system at the Region 3 meeting showed that this holds a lot of promise for successfully providing the membership with much needed information on potential employers (including detailed point of contact information, etc). More news on this as it develops. Region 3 has more funds available for Section "special projects", so lets get thinking about some good ways to put Region funds to use for the whole Region membership!

On a lighter note, the 1994 Orlando Installation Banquet will be held in mid June, at Lee's Lakeside Restaurant in Orlando. A cocktail hour with cash bar will be held before dinner. More details can be obtained from **Dr. Wahid**, at 823-2610.

Finally, I would like to encourage all Chap-

ter Chairmen and interested members to attend the Executive Committee meeting on May 3 — there are some substantive issues which need to be discussed, and which affect the entire section.

★STAR SEARCH ★

M. Ali Atashroo, Awards Chairman As Chairman of the Awards Committee, I need your help one more time to identify nominees for the Outstanding Service and Outstanding Entrepreneur Awards to be presented at the Installation Banquet in June.

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

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

ogy profession.

Please use the enclosed Star Search form to nominate your candidate. Complete the form and send it to me by May 15th. I will solicit biographical information from each candidate for use at the June 1st meeting of the Executive Committee in deciding the winner. I will make the nomination process as painless as possible for the nominators! My mailing address and telephone are: 1512 Indian Dance Court, Maitland, FL 32751; Voice Mail: 260-1676 Ext. 905, Office: 356-6914, Home: 539-0465.

ELIGIBILITY

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

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May 3 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 May 10 IEEE AICN - The Business of Troubleshooting - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 May 19 IEEE SP - Radar Signal Processing - UCF, Engineering Bldg. Room 407, T. Young (O) 356-8865 May 24 IEEE PE/IA - Power Quality Seminar - Morrison's Cafeteria, G. Engmann, (O) 240-9013, (H) 521-7985, I. Batarseh, (O) 823-0185 Jun 7 IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 IEEE Orlando Section - Installation Banquet - Lee's Lakeside Restaurant, P. Wahid, (O) 823-2610, (H) 677-0571 Jun 12 Jun 14 IEEE AICN - Section 1706 of the Tax Reform Act of 1986 - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Jun 20 - 24 ACM - Programming Language Design and Implementation - Walt Disney World Village, Orlando, (407) 628-3186 Jun 26 - 29 IEEE NNC - The 3rd International Fuzzy Systems Conferece - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 Jun 26 - Jul 2 IEEE NNC - World Congress on Computational Intelligence - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 Jun 26 - Jul 2 IEEE NNC - International Conference on Evolutionary Computing - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 Jun 28 - Jul 2 IEEE NNC - International Conference on Neural Networks - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 Aug 2 IEEE Orlando Section - EXCOM - Hewlett-Packard Aug 9 IEEE AICN - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676

Dec 14-16 IEEE CSS - The 33rd IEEE Conference on Decision and Control - Lake Buena Vista, M. Masten, 214-462-3433 May 15-19, '95 IEEE MTT - 1995 IEEE/MTT-S International Microwave Symposium - K. Huddleston, (O) 356-7201, 339-0336

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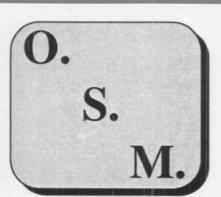
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THE ORLANDO SECTION MONTHLY

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June 1994

The Orlando Section of the Institute of Electrical and Electronics Engineers
Announces the

1994 IEEE Orlando Section

Installation Banquet

Sunday, June 12, 1994

Lee's Lakeside Restaurant

431 East Central Boulevard, Orlando

Program:

6:00 PM - Cocktails (Cash Bar) 7:00 PM - Dinner

Guest Speaker:

Ms. Sondra Quinn Director of the Orlando Science Center

Presentation of Awards:

Certificates of Appreciation Outstanding Chapter Award Outstanding Service Award Outstanding Entrepreneur Awards

This is an excellent opportunity to meet other members of the Orlando engineering community. For reservations or additional details please contact

Dr. Parveen Wahid at 823-2610 or 677-0571

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c/o Dr. Parveen Wahid Name:

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Orlando, FL 32817

823-2610 or 677-0571

Phone

 No Charge to IEEE Orlando Section Fellows and their spouses.

Reservations must be received no later than June 7th, 1994

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.

CONSULTANT'S NETWORK

Section 1706 of the Tax Reform Act of 1986

Program: Most engineers in private practice are at least vaguely aware of this "Anti-Engineer Law." If you have not yet taken action to support its repeal or are unsure of just what it is, please join us.

Speaker: Mr. Jorge Medina, MSI Date: Tuesday, June 14th, 1994

Time: 6:00 PM Meeting, 6:30 PM Presentation Location: Orlando Public Library, 3rd. Floor Contact: Jorge Medina 260-1676, ext. 400.

POWER ENGINEERING/ INDUSTRY APPLICATIONS/ POWER ELECTRONICS

Three Phase Short Circuits Seminar/Video

Video Topic: Part One of the Power Systems

Fault Calculations Series.

Date: Tuesday, June 21st, 1994

Time: 6:00 PM

Place: Westinghouse Power Generation Training Room 2E17, 4400 Alafaya Trail Contact: I. Batarseh 823-0185, G. Engmann

240-9013, B. Nelson 281-5381

SYSTEMS, ROBOTICS & CONTROL

H∞ and μ Methods of Robust Control Video Tutorial

Topic: This begins a series of meetings that will cover the entire two day tutorial (seven video cassettes) presented by R. Lane Dailey and guest lecturers from the UK. At this meeting we will schedule future showing times of the tapes.

Speaker: R. Lane Dailey, The Boeing Co.

Date: Thursday, June 9th, 1994 Time: 6:00 PM

Location: UCF, Engineering Bldg., Room 274

Contact: Dr. H. Myler 823-5098

This meeting is restricted to IEEE members only.

The Orlando Section Monthly

June 1994

IEEE ORLANDO SECTION

Region 03 Council 05 Section 51

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he World Congress on Computational Intelligence sponsored by the IEEE Neural Network Council will be held June 25-July 4, 1994 at the Walt Disney World Dolphin Hotel. The Orlando Section volunteer team will help with the operations, and although time is getting short, there is still time for you to volunteer! Section volunteer participation at the conference will include assistance with local arrangements and guest social programs. Anyone interested in volunteering or obtaining more information can contact **Dr. Ratan Guha**, or contact a member of the executive board.

At the May Section Executive Committee meeting, the proposal before the Region 3 Executive Committee to consider purchasing laptop computers was discussed. As described last month, the purchase would entail the expenditure of roughly \$40,000 of Region 3 funds, approximately 25% of the entire financial resources of Region 3. The purpose for the purchase is to move toward "paperless" meetings, thus avoiding the expenses associated with copying and shipping of hard copies of reports, etc., and to increase the efficiency of Region 3 ExCom meetings. The laptops could also be used to generate disk versions (instead of hardcopy) for Region manuals such as the Awards manual, etc. After considering all apparent aspects of the situation, the Orlando Section Executive Committee has concluded that:

- There is no apparent financial "payback" associated with purchase of laptops significant enough to justify the expenditure of these funds.
- There is no apparent benefit to the members of Region 3 from this purchase (with the exception, of course, of the EXCOM members, for whom it is a nice perk)
- 3. Use of such electronic media for meetings, while eliminating paper, would do nothing to reduce the amount of last-minute "shuffling" that goes on because people get their reports in at the last minute - it would just be disk shuffling rather than paper!
- 4. The money intended for use in this manner could be much better spent on projects that would benefit the entire Region 3 membership, such as the employment database, etc. (Our Strategic Planning Committee is meeting to try to

develop some ideas for special projects to utilize the "available" Region funds).

5. Purchase of a limited number of laptops for use by specific EXCOM members (such as secretary, treasurer, conference chairman, and director) would be a much more reasonable proposal, and would provide the EXCOM members who really need access to computers at meetings with this capability.

I am drafting a letter to the Region 3 EXCOM indicating that the Orlando Section does not think the proposed purchase is a wise use of Region Funds, and will forward copies to other Regional and Section officials for their information. I strongly encourage individual section members to voice their opinions on this matter --- only by letting the EXCOM members know what we think can we influence how they vote! Any member who wants to contact the Region 3 EXCOM can e-mail them at reg03.excom@ieee.org. Contact information for regular mail can be found in the Region 3 newsletter, or feel free to call a member of the Section Executive board for contact information.

The 1994 Orlando Installation Banquet will be held on June 12, at Lee's Lakeside Restaurant in Orlando. A cocktail hour with cash bar will be held at 6 P.M. before dinner. Our programs chairman has arranged for an informative speaker from the Orlando Science Center - - see the announcement for more information and prices.

Candidates for Orlando Section Officers Named

In accordance with the Section Bylaws, the following candidates for Section Officers for terms beginning July 1, 1994 and ending June 30, 1995, are as follows:

Chairperson: Vice Chairman: Dr. Parveen Wahid Mr. Dave King

Treasurer: Secretary: Dr. Kalpathy B. Sundaram Mr. Michael Germain

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

Section Sponsors Electronic Bulletin Board

The IEEE Orlando Section is sponsoring a free, 24-hour electronic bulletin board system (BBS). Dr. Ali Atashroo set up and manages the BBS which can be accessed via modem (8 Bits -No Parity -1 Stop Bit) by dialing 539-0884. The goal of the BBS is to promote fellowship, education, and communication with fellow engineering and scientific professionals and students. The IEEE-OS BBS is at its infancy and with members' help and volunteerism we will grow to a full-fledged BBS to service our local members as a local BBS and ultimately as an e-mail hop to Internet. Assistance of old-hands sysops is appreciated. •

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IEEE Orlando Section - EXCOM - Hewlett-Packard, J. Hines, (O) 886-8860, (H) 628-1604 Jun 7 Jun 9 IEEE SRC - H∞ and μ Methods of Robust Control - UCF, H. Myler, (O) 823-5098 IEEE Orlando Section - Installation Banquet - Lee's Lakeside Restaurant, P. Wahid, (O) 823-2610, (H) 677-0571 Jun 12 IEEE CN - Section 1706 of the Tax Reform Act of 1986 - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Jun 14 ACM - Programming Language Design and Implementation - Walt Disney World Village, Orlando, (407) 628-3186 Jun 20 - 24 IEEE PE/IA/PEL - Three Phase Short Circuits - Westinghouse, I. Batarseh, (O) 823-0185, G. Engmann, (O) 240-9013 Jun 21 IEEE NNC - The 3rd International Fuzzy Systems Conference - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 Jun 26 - 29 Jun 26 - Jul 2 IEEE NNC - World Congress on Computational Intelligence - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 Jun 26 - Jul 2 IEEE NNC - International Conference on Evolutionary Computing - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 Jun 28 - Jul 2 IEEE NNC - International Conference on Neural Networks - Walt Disney World Dolphin Hotel, Orlando, (714) 752-8205 IEEE Orlando Section - EXCOM - Hewlett-Packard Aug 2 IEEE CN - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Aug 9 IEEE Orlando Section - EXCOM - Hewlett-Packard Sep 6 IEEE CN - TBA - Orlando Public Library, 3rd Floor, J. Medina, (O) 260-1676 Sep 13 Dec 14-16 IEEE CSS - The 33rd IEEE Conference on Decision and Control - Lake Buena Vista, M. Masten, 214-462-3433 May 15-19, '95 IEEE MTT - 1995 IEEE/MTT-S International Microwave Symposium - K. Huddleston, (O) 356-7201, 339-0336

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