

**VOLUME XVI
NUMBER 1
SEPTEMBER 1981**



ORLANDO SECTION NOTES

MANNIE CONNELL MAN OF THE YEAR 1981



DETAILS WITHIN. . .

**PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONICS ENGINEERS**

FAMILY PICNIC/BARBECUE

Friday October 23, 1981 4:00 P.M.

Florida Power Bear Lake Recreation Facility
map will be included in next month's issue

We are changing our annual barbecue toward a picnic/potluck format to keep the cost down and to encourage wider participation. Cost is \$1.50 for a student and, \$2.00 for an individual non-student, and \$4.00 for a family. This covers facility rent, entertainment, beverages, and supplies such as charcoal. The same great steaks we have had in the past will be available at \$4.00 each or you can bring your own steak, chicken, hotdogs, or whatever. Get together with friends and co-workers to coordinate menus a little or just bring something and be suprised at what we put together into a fun feast. Tickets will be available from members of the Executive Committee from Sept. 2 through Oct. 15.

This year, Mr. John Hucko will be calling the square dance starting at 8:00 P.M..

THE CHAIRMAN'S CORNER

Welcome to all the IEEE members who have joined the Orlando Section or newly joined IEEE. You will find the Orlando Section interested in helping you. We look forward to your joining us at chapter technical meetings, at our social events, and at the Executive Committee meetings.

Congratulations to Mannie Connell, the Orlando Section's "Man of the Year". Mannie's picture is on the cover of this months Section Notes. He is receiving the award from Bill Cram. Many of you know Mannie from his years in the Computer Society offices. As you can see, his smile has not diminished after this service to us. I join the section in thanking Mannie for all he has done for us. Thanks and Congratulations!

Let's plan to meet at the Annual Barbecue - October 23rd. It's family style this year, so let's have your families get acquainted.

COMPUTER SOCIETY ELECTION HELD

The Computer Society conducted its annual election of officers for the operating year 1981-82 on 20 May at a brief business meeting following a tour of the Walt Disney World animation computer facility. Forty-two society members were present prompted by the opportunity to gain insight into the Disney computer operations.

The following officers were nominated by the nominating committee made up of past officers and elected by acclamation:

	Chairman:
Chairman:	Dr. Jerry White, Naval Training Equipment Center
Program Vice-Chairman:	Clarke Hay, Stromberg Carlson
Membership Vice-Chairman:	William Joseph, Sperry-Univac
Secretary:	Steve Moulton, Martin Marietta Corp.

The Disney computer facility tour revealed extensive use of computers for a multitude of functions. The facility is used primarily for real time control of all the characters in such favorite attractions as Tiki Birds, Country Bear Jamboree, Hall of Presidents, and Pirates of Carribean. Real time video and audio control is maintained by the computers of all security video cameras, background music, public announcements in the park and hotels, even down to the projector synchronization for Eastern Air Lines "Wings of Man". Fire and Security computer monitoring for the park, World Hotels, Buena Vista Hotels, Reedy Creek Utilities and River Country was also demonstrated. Local computer control of Space Mountain and Thunder Mountain is used because of the rapid response time required. Data are transmitted around the park and to hotels via 2-wire serial data links, although fiber optics is being evaluated. Disney writes all their own software and performs all their own I/O design and computer integration. The EPCOT Computer Center will be all new and will use computers even more extensively.

TAX-DEFERRED INVESTMENT

Younger engineers, self-employed engineers, and all other engineers not vested in qualifying company pension plans, are eligible for independent retirement accounts on which taxes are deferred until retirement. Any investment counselor can assist in arranging for an IRA, LERA, or Keogh account depending upon your personal position and needs. There is considerable congressional effort in progress to improve these plans to permit investment levels more consistent with recent inflationary trends. Your PAC Chairman, Ed Ellis, can furnish more details on the effort IEEE is expending in support of these improvements, and can supply supporting information if you are willing to contact your congressman to express your sentiments on this subject.

1981 IEEE INTERNATIONAL AUTOMATIC TESTING CONFERENCE

AUTOTESTCON PLANNING

The papers for the technical program are due to the printer now, and copies are going to the session chairmen. There will be three authors' breakfasts, a reception with finger foods, and three luncheons.

A total of about 50 exhibits is expected, and 650 attendees. Booths are selling for \$800, with a 20% discount for early payment.

Working is progressing on the advance program, which is due into the mails this month. Volunteers are sought for the conference committee, particularly in the registration area. Call George McClure, 352-3782 for further information or to volunteer.

IEEE ORLANDO EXECUTIVE COMMITTEE EXECUTIVE BOARD

Chairman	Benjamin W. Patz	275-2816	855-3685
Vice Chairman	Mannie Connell	351-4691	273-8588
Secretary	T. E. (Ed) Ellis	339-1600	834-3319
Treasurer	Joe Massett	352-3858	834-3448

STANDING COMMITTEE CHAIRMEN

Jr. Past Chairman	George F. McClure	352-3782	647-5092
Sr. Past Chairman	Ernest E. Erickson	275-2310	365-5560
Programs	Herb Towle	275-5464	671-0265
Publicity	David George	859-5120	644-1009
Publications	Philip Gatt	275-2414	896-4741
Awards	William C. Cram		647-4123
FES Liaison	Richard C. Harden	855-0881	855-5775
Prof. Act. Comm.	T. E. (Ed) Ellis	339-1600	834-3319
Student Act. Comm	Richard Miller	275-2786	
Education	Fred O. Simons	275-2786	678-1796
Membership Develop.	Frank Fluet	843-7030	339-8905

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Historian	Russell E. Theisen	352-3877	671-4139

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	Mbr. V. Chmn.	William Joesoph	352-4261	299-7399
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	Chmn.	Ralph M. Mindock	352-2776	862-7764
	V. Chmn.	Jim Crouch	352-3966	857-3788
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	V. Chmn.	David Kotic		
	Recordg. Secy.	Diane Pavic		
	Corresp. Secy.	Karen Riley		
	Treas.	Jon Klages		
Stu. Cmptr.	Chmn.	Tom Toor		282-6359
	V. Chmn.	Art Weeks	275-2786	677-6472
	Secy.!	Treas. Jon Klages		

The Executive Committee meets September 1 at Stromberg Carlson Training facility, US 17-92 Lee Rd., at 5:30 p.m. Members are welcome to attend.

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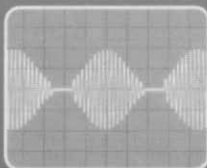
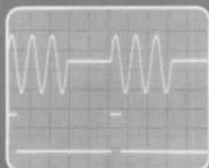
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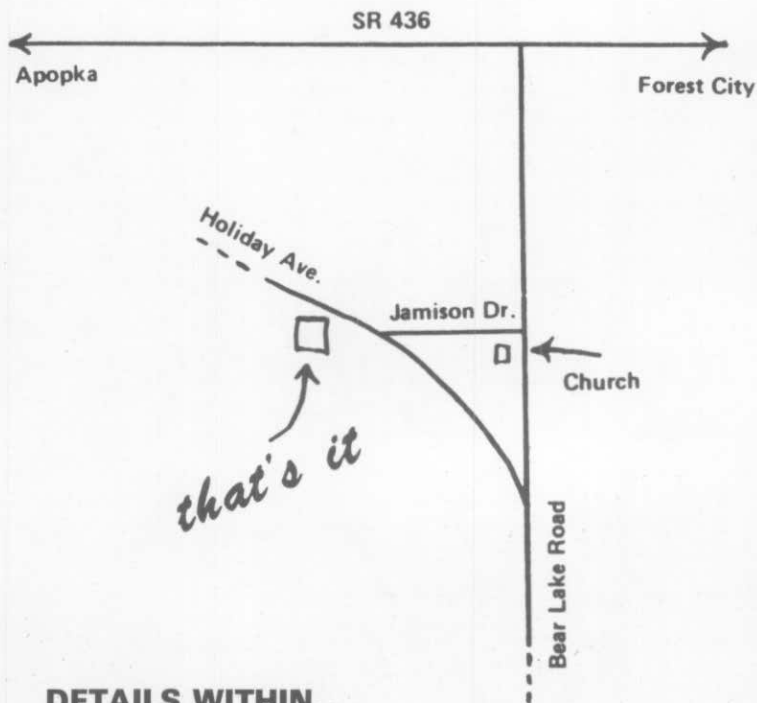
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VOLUME XVI
NUMBER 2
OCTOBER 1981



ORLANDO SECTION NOTES

ANNUAL BAR-B- Q



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This year, Mr. John Hucko will be calling the square dance starting at 8:00 P.M.

IEEE PRESIDENT TO SPEAK IN CLEARWATER

The Florida West Coast Section is honored to announce that Dr. Richard Damon, President of IEEE, will be the speaker at our next meeting. The (tentative) location, time and dinner price are shown below. (Depending on the turnout, we may have to move to a larger facility.)

Date: November 5

Location: Ramada Inn, 401 U.S. Hwy. 19, South, Clearwater, FL
(One block north of HWY 60)

Dinner Price: \$10.00

Schedule: Social hour 6:00 p.m.

Dinner 7:00 p.m.

Program 8:00 p.m.

For reservations, call:

Don Abernathy or Don's secretary,

Mrs. James at (813) 832-1152.



CHAIRMAN'S CORNER

The week of Oct. 19-23 will be a full week for the Orlando Section. AUTOTESTCON runs that week at the Orlando Hyatt House, the Computer Society has a meeting at Stromberg-Carlson on Oct. 20, and the Section is holding its Annual Barbecue on Friday, Oct. 23. Of course you are all invited to participate.

IEEE is proposing a \$2.00 dues increase. The Orlando Section submitted a letter of protest prior to the last dues increase. Drs. E. Erickson and F. Simons of UCF are drafting a letter of protest which will be discussed at our next executive meeting on Tuesday Oct. 6. Proposed revisions to the Section bylaws will also be on the order of business. The executive committee meets in the sunshine on the first Tuesday of each month. IEEE members are encouraged to attend.

COMMUNICATION SOCIETY MEETING

DATE: Tuesday 27 October

TIME: 7:30 P.M.

WHERE: Orlando Bell TSBS Office

The Communication Society will hold a tour of Bell TSBS office located off South Orange Blossom Trail on the north side of Doss Ave. by Talk of the Town Restaurant. All interested should call 339-1600 for reservations and then meet before 7:30 P.M. at the Doss Ave. entrance.

OCTOBER 1981

Monday	Tuesday	Wednesday	Thursday	Friday
5	6 Exec. Meeting	7	8	9
12	13	14	15	16
19	20 AUTOTEST CON Comp. Soc.	21	22	23 Barbecue
26	27 Comm. Soc.	28	29	30

NOVEMBER 1981

Monday	Tuesday	Wednesday	Thursday	Friday
2	3 Exec. Meeting	4	5 IEEE President speaks in Clearwater	6
9	10	11	12	13
16	17	18	19	20
		COMPUTER SOCIETY		
23	24	25	26	27
	POWER SOCIETY			
	COMMUNICATION SOCIETY			

COMPUTER SOCIETY MEETING

DBX SIMULATOR - JOHN CLARSON

The DBX (digital branch exchange) is one of the family System Century digital telephone products produced by Stromberg-Carlson. The DBX Simulator is a software tool permitting testing of the DBX software on a software development host machine.

The Computer Society will see the DBX in its laboratory test environment, receive a briefing on the design of the DBX Simulator, and then see it demonstrated on an interactive terminal of the PDP 11/70.

This presentation will be from 7:30 p.m. to 9:00 p.m. at the Stromberg-Carlson Engineering Development Center on 17-92 approximately one mile north of state road 434. Entrance will be through the guard station at the rear (east). Allow a few minutes for badges to be issued.

John Clarson, a member of ACM and the Computer Society, is the project engineer responsible for directing the group designing and implementing the DBX Simulator. Prior to joining Stromberg-Carlson, Mr. Clarson was affiliated with the College of William and Mary where he worked on various projects concerned with producing code generators. He also earned an MSCS degree to go with his BSEE and MEIE degrees earned while serving for twenty years in the United States Air Force.

IEEE ORLANDO EXECUTIVE COMMITTEE EXECUTIVE BOARD

		646-4464 NTEC	Business	Home
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	V. Chmn.	David Kotic		678-6710
Recordg. Secy.		Diane Pavic		282-1941
Corresp. Secy.		Karen Riley		
	Treas.	Jon Klages		275-0023
Stu. Cmptr.	Chmn.	Tom Toor	275-2786	282-6359
	V. Chmn.	Art Weeks	275-2786	677-6472
	Secy. Treas.	Jon Klages		275-0023

The Executive Committee meets October 6 at Stromberg-Carlson Training facility, US 17-92 Lee Rd., at 5:30 p.m. Members are welcome to attend.

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**VOLUME XVI
NUMBER 3
NOVEMBER 1981**

ORLANDO SECTION NOTES

SECTION MEETING

WHEN: 7:30 P.M. - December 10, 1981

**WHERE: John Young Science Center - Tam Rm. - 810 E. Rollins
EFFECTS OF TAX LAW CHANGES ON YOUR
PERSONAL INVESTMENTS**

Sweeping changes in the tax law recently enacted affect your decisions on investments, wills and estate planning, and personal financial planning. For the first time, engineers covered by a company pension plan are also eligible to fund their own Independent Retirement Account (IRA), starting in 1982. Changes in the estate tax structure make review of existing wills and trusts desirable. Thomas R. Rogers, Mark McKee, and Leo Desmond will cover the effects of tax law changes on our investments at this meeting.

Thomas R. Rogers is a practicing attorney and Certified Public Accountant with the firm of Manzo, Rogers, and Wright. One of his specialty designations with the Florida Bar is in the area of taxation. He will discuss estate planning under the new Tax Act. An analysis of the new code provisions concerning changes in the unified credit, marital deduction, and gift-giving techniques will be made. Additionally, he will discuss suggested changes that may be needed in existing wills and trusts.

Mark McKee and Leo Desmond specialize in tax-advantaged investments and total financial planning for E. F. Hutton & Company. They have presented numerous seminars on the subject in addition to teaching adult education classes on general investing at Winter Park High School.

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WEEK OF PROFESSIONAL-LEVEL TUTORIALS TO BE HELD IN PARALLEL WITH SOUTHCON '82

(Silver Spring, MD) The Computer Society of the Institute of Electrical and Electronics Engineers, Inc. (IEEE-CS) announced that a full week of tutorials will be held March 22-26, 1982 at the Orlando Marriott Inn, Orlando, Florida--timed to parallel SOUTHCON '82 which is also being held in Orlando.

"Organized around fifteen individual one-day courses, 'Tutorial Week East' has three consecutive subject tracks covering technical topics of current interest to computer scientists, programmers, and software engineers and designers," according to General Chairman, Russell E. Theisen (Martin Marietta Aerospace, Orlando, FL). The three interest tracks are: (1) Hardware, microprocessors, and graphics; (2) Software engineering; and (3) Distributed computing and networks.

Individuals may take up to five tutorials for the full-week registration fee of \$400 (IEEE or IEEE-CS members) or \$500 for nonmembers. Or individual tutorials may be taken at \$90 for IEEE members and \$110 for nonmembers. Each one-day registration includes luncheon, coffee breaks, and bound copies of the tutorial notes. Attendance for each tutorial is limited to 125 and registration at the door will be accepted on a space available basis for an additional fee of \$25 per tutorial. Students, on a space available basis, may be admitted to individual tutorials for a \$50 registration fee payable at the door only.

Due to space limitations, advance registration is encouraged for the tutorials by February 26, 1982 and for the Orlando Marriott by February 20, 1982. For further information, registration forms, and a program for Tutorial Week East, contact: Tutorial Week East, c/o IEEE Computer Society, P. O. Box 639, Silver Spring, MD 20901. (301) 589-3386.

At the same time as Tutorial Week East, also being held in Orlando is SOUTHCON '82 on March 23-25, 1982. SOUTHCON, a major annual technical conference sponsored by the IEEE, is expected to feature over 50 technical sessions in addition to having almost 500 exhibitors. Free shuttle service between the two events will be provided. For more information on SOUTHCON '82, write to: Dale Litherland, 999 N. Sepulveda Blvd., Suite 410, El Segundo, CA 90245.

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**VOLUME XVI
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DECEMBER 1981**



ORLANDO SECTION NOTES

SECTION MEETING

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Individuals may take up to five tutorials for the full-week registration fee of \$400 (IEEE or IEEE-CS members) or \$500 for nonmembers. Or individual tutorials may be taken at \$90 for IEEE members and \$110 for nonmembers. Each one-day registration includes luncheon, coffee breaks, and bound copies of the tutorial notes. Attendance for each tutorial is limited to 125 and registration at the door will be accepted on a space available basis for an additional fee of \$25 per tutorial. Students, on a space available basis, may be admitted to individual tutorials for a \$50 registration fee payable at the door only.

Due to space limitations, advance registration is encouraged for the tutorials by February 26, 1982 and for the Orlando Marriott by February 20, 1982. For further information, registration forms, and a program for Tutorial Week East, contact: Tutorial Week East, c/o IEEE Computer Society, P. O. Box 639, Silver Spring, MD 20901. (301) 589-3386.

At the same time as Tutorial Week East, also being held in Orlando is SOUTHCON '82 on March 23-25, 1982. SOUTHCON, a major annual technical conference sponsored by the IEEE, is expected to feature over 50 technical sessions in addition to having almost 500 exhibitors. Free shuttle service between the two events will be provided. For more information on SOUTHCON '82, write to: Dale Litherland, 999 N. Sepulveda Blvd., Suite 410, El Segundo, CA 90245.

IEEE ORLANDO SECTION

EXECUTIVE COMMITTEE MEETING

3 NOVEMBER 1981

The meeting was called to order by the Section Chairman, Ben Patz, at 5:35 P.M. at Stromberg-Carlson Corp. in Winter Park. Those present included the following:

Ben Patz
Ed Ellis
Bill Cram
Jeff Dick
Fred Simons
Joe Massett
Don Mendorf

Dean Kandelwal
Mannie Connell
George McClure
Brian Ashford
George Taack
Frank Fluet
David George

Dr. Patz introduced Brian Ashford, of Martin Marietta, who is a new member at large, of the Executive Committee.

The minutes of the 6 October meeting were read and were approved on a motion by Cram, seconded by Taack. The notation was made, however, that the minutes of the September meeting and the financial report of 6 October both approved at the October meeting, would require consideration at the current meeting, due to lack of a quorum in October. The minutes of the September meeting were then approved on the motion of Cram, seconded by Mendorf.

The treasurer's report for 3 November and preliminary barbeque report by the treasurer, as shown below, were discussed and approved on a motion by Connell, seconded by Fluet. It was noted that the IEEE rebate was the gross amount for January thru June, 1981, from which IEEE services (\$185.96) were deducted.

IEEE ORLANDO SECTION

Treasurer's Report 3 November 1981

CASH BALANCE:	6 October 1981	
Checking	\$ 549.56	
Dreyfus	8558.52	\$ 9108.08
	<hr/>	
INCOME:		
IEEE Rebate	\$ 1218.25	
(Gross)		
Barbecue Income	88.50	\$ 1306.75
	<hr/>	

EXPENSES: (October)

Secretary Mailings	\$ 13.47
Membership Mailings	18.24
IEEE MTT Listing	4.18
Oct. Section Notes	231.50
Barbecue Tickets	32.00
IEEE Services	185.96
(Jan-June 1981)	
Barbecue Foods, Drinks	394.93

\$ 880.28

BALANCE:

\$ 9534.55

Checking Account

976.03

Dreyfus

8558.52

**Annual Barbecue Report
Preliminary**

INCOME:

\$ 88.50

EXPENSES:

Food	\$ 186.07
Paper Products	9.26
Beverages	119.60
Square Dance Caller	80.00
BBQ Tickets	32.00

\$ 426.93

NET LOSS:

\$ 338.43

The treasurer's report of 6 October was then approved on motion by Mendorf, seconded by Cram.

Chapters and committee reports were given as follows:

1. Communications Society - Don Mendorf reported a successful October meeting, although only 9 attended. The next meeting will be a tour of the Vista Telephone facilities of United Telephone on December 2. A meeting will be held in late January 1982, with a speaker presenting an update on NASA communications in support of the space shuttle effort.

2. Power Engineering Society and Industrial Applications - Jeff Dick reported their next meeting will be on the utility requirements and savings with earth-sheltered construction, on November 19.

3. Microwave Theory and Techniques - Ben Patz reported on communications with Al Fowler, chairman of the MTT Chapter. Al has obtained the required 12 signatures to establish an Orlando joint chapter of MTT and Antennas and Propagation. On motion by Cram, seconded by McClure, section approval was given for submitting this application to IEEE.

4. Publications - In absence of a Publications Chairman, Ben Patz reported that Executive Committee minutes are to be added to the notes because the majority of the section membership has had little cognizance of current activity within the section. The section secretary will deliver the minutes and meeting notices to the publisher directly, and the section chairman will deliver additional material directly until such time as a publications officer is available.

5. Membership and Development - Frank Fluet reported the October changes reported by IEEE show 21 changes within the Orlando section and 12 changes in group/society membership. Current Orlando section membership is 847. Don Mendorf requested that Frank procure a computer readout of Orlando section membership for each group and society. George McClure reported that Charlie Anderson, of Martin Marietta, who is a member of the administrative committee of the Electromagnetic Compatibility Society, is collecting signatures for establishing a local chapter of that group.

6. Publicity - David George will be soliciting input on items which can be used for press, radio and TV publicity. Letters will be sent to all members of the Executive Committee in November, with tentative plans for letters to industrial firms to follow.

7. Awards - Mannie Connell requested that the call for nominations for Engineer of the Year be included in the next section notes. He also needs nominees from the student branch for outstanding student awards, and he needs volunteers to assist him on the awards committee for evaluation of nominations.

8. Professional Activities - Ed Ellis requested comments on relative priorities in the USAB program - various pension, education and miscellaneous projects. A legislative alert has been issued by PAC on the federal budget cut in research funding. Ron Waters, Florida Council PAC representative, is resigning that post and is looking for a replacement.

9. Barbecue - The poor attendance at the section barbecue, held in October, was discussed. Reasons for the poor turnout which were suggested include: (1) Friday was a poor choice of days; (2) the entertainment probably appealed to too few of the members; and (3) IEEE members may be socially introverted or tend to socialize outside the profession. Art Weeks, as Facilities and Arrangements chairman, and Dean Khandelwal, will investigate a possible alternative fall section social meeting. Due to long lead time required to reserve the Bear Lake facility, if it is to be used, Ben Patz will reserve the facility for late October 1982, tentatively.

10. Autotestcon - George McClure reported that Autotestcon was very successful, and well received. He and Clark Hay are to prepare the final financial report on the conference in mid-November.

11. Education - Fred Simons requested guidance on subject matter for desired technical seminars. The proposal that the section procure IEEE educational tapes, for use by section members, was discussed. Distribution control is the principal area of concern. The public library system, UCF library, and Martin Marietta library were each considered. No decision was reached.

OLD BUSINESS: Fred Simons has not had the opportunity to prepare the suggested Orlando Section letter of protest against the recent IEEE dues increase. He solicited suggestions from those present, and will present a draft at our next meeting.

NEW BUSINESS: The question was raised regarding payment for Hewlett Packard ads in the section notes. Bill Kownacki bills them semi-annually. George McClure distributed copies of the preliminary program for NTC 81 to be held in New Orleans the end of this month. NTC will be replaced by Global Telecommunications Conference, GTC, in 1982, and GTC 82 will be in Miami.

The meeting was adjourned at 6:52 P.M. on motion by Cram, seconded by Khandelwal. The next meeting will be held at 5:30 P.M. 1 December 1981 at the same location.

Ed Ellis
Secretary, Orlando Section



IEEE COMMUNICATIONS

(FUTURE)

Robert 'Bob' Brown, manager of NASA communications, will give a talk on special communications associated with the space shuttle program on January 27, 1982, at 7:30 P.M. The site has not been determined.

IEEE ORLANDO EXECUTIVE COMMITTEE EXECUTIVE BOARD

		Business	Home
Chairman	Benjamin W. Patz	275-2816	855-3685
Vice Chairman	Mannie Connell	351-2710	273-8588
Secretary	T. E. (Ed) Ellis	339-1600	834-3319
Treasurer	Joe Massett	352-3858	834-3448

STANDING COMMITTEE CHAIRMEN

Jr. Past Chairman	George F. McClure	352-3782	647-5092
Sr. Past Chairman	Ernest E. Erickson	275-2310	365-5560
Programs	Art Weeks	275-2786	677-6472
Publicity	David George	859-5120	644-1009
Publications	T. E. (Ed) Ellis	339-1600	834-3319
Awards	Mannie Connell	351-4691	273-8588
FES Liaison	Richard C. Harden	855-0881	855-5775
Prof. Act. Comm.	T. E. (Ed) Ellis	339-1600	834-3319
Student Act. Comm	Richard Miller	275-2786	
Education	Fred O. Simons	275-2786	678-1796
Membership Develop.	Frank Fluet	843-7030	339-8905

SPECIAL COMMITTEES

By-Laws	Ernest E. Erickson	275-2310	365-5560
SOUTHCON	Bruce E. Mathews	275-2156	645-0549
Advertising Manager	William A. Kownacki	843-8484	365-5818
Historian	Russell E. Theisen	352-3877	671-4139
Member at Large	William C. Cram		647-4123

SOCIETY CHAPTER OFFICERS

AES	Chmn.	Dave Flinchbaugh	422-2662	859-4855
Comm.	Chmn.	Don Mendorf	339-1600	869-7435
	V. Chmn.	George Taack, Jr.	339-1600	321-0319
	Secy.	Bill Strickland	351-9960	
	Mbrshp.	Walt Wolters	351-9901	
Computer	Chmn.	Gerry White	646-4437	678-3621
	Pgm. V. Chmn.	Clark M. Hay	339-1600	677-0246
	Mbr. V. Chmn.	William Joseph	352-4126	299-7399
	Secy.	Stephen Moulton	352-2236	830-9034
Electron Dev.	Chmn.	Deen Khandelwal (organizer)	352-2583	277-5959
	Chmn.	Ralph M. Mindock	352-2776	862-7764
	V. Chmn.	Jim Crouch	352-3966	857-3788
MicThTec.	Chmn.	Al Fowler (St. Cloud)		892-4776
PE IA	Chmn.	Geoffrey E. Dick	352-3559	678-0979
	V. Chmn.	Joseph R. Miller	646-8233	644-7049
	Secy.	Roger D. Bowman	646-8222	275-7208
Student Br.	Chmn.	Michael Robitaille (Kissimmee)	275-2786	671-6088
	V. Chmn.	David Kotick		678-6710
	Recordg. Secy.	Diane Pavik		282-1941
	Corresp. Secy.	Karen Riley		
	Treas.	Jon Klages		275-0023
Stu. Cmptr.	Chmn.	Tom Toor	275-2786	282-6359
	V. Chmn.	Art Weeks	275-2786	677-6472
	Secy. Treas.	Jon Klages		275-0023

The Executive Committee meets January 5th at Stromberg-Carlson Training facility, US 17-92 Lee Rd., at 5:30 p.m. Members are welcome to attend.

ORLANDO SECTION
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VOLUME XVI
NUMBER 5
JANUARY 1982



ORLANDO SECTION NOTES



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on Earth



Happy New Year



**PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONICS ENGINEERS**

EXECUTIVE COMMITTEE MEETING

1 December, 1981

The meeting was called to order by the Section Chairman, Ben Patz, at 5:45 PM at Stromberg-Carlson Corp. in Winter Park. Those present, including late arrivals, were:

Ben patz	Bill Cram
Mannie Connell	Dave Flinchbaugh
Ed Ellis	Jeff Dick
Joe Massett	Gerry White
Fred Simons	Clark Hay
Frank Fluett	Al Fowler
Russ Theisen	

Chapters and Committee reports were given as follows:

1. Computer Society-Gerry White reported their next meeting would be Dec. 7, 1981, with Dr. Paul Wang talking on the subject of "Application of Fuzzy Set Theory to Pattern Recognition". Dr. Wang's availability for this presentation was not known early enough to distribute announcements earlier.

2. Autotestcon - Clark Hay reported that hotel banquet billing had been misdirected, and therefore has not been paid yet. The final reports should reflect a net income in the order of \$12,000, of which one-third will be given to the local section.

3. Microware Theory and Techniques - Al Fowler reported that their next meeting would be Thursday, Dec. 3, 1981, at Gary's Duck Inn, with Russ West of Transtec Corp. speaking on "Tailoring Ferrites for Microware Devices". MTT is also scheduling a meeting for Feb. 25, 1982, with George Bell of Microdyne, speaking on "Current Receiver Technology for Home Satellite Terminals". They also plan a Joint Meeting with Electron Devices Chapter, on Jan. 21, 1982, with Don Massey, of Raytheon, speaking.

Ben Patz reported receiving correspondence from IEEE announcing final approval of formation of the local MTT Chapter.

4. Aerospace and Electronic Systems - Dave Flinchbaugh reported on the joint AES-SME meeting in November on the topic "Aerospace Contributions to Space Technology". The next AES meeting will be Jan. 28, 1982, at the Sundance Inn, Altamonte Springs, on the topic of Robotics. He expects this will be an exciting and well attended meeting.

5. Communications - Ed Ellis reported word from Don Mendorf, that problems in circulating publicity on their meeting scheduled for Dec. 2, is expected to reduce attendance. The meeting is to include a tour of some of the communications facility at Disney World.

6. Awards - Mannie Connell reported that nominations for "Engineer of the Year" nominees are due Jan.15,1982.

7. Membership Development - Frank Fluett reported he has received Fellow nomination kits. Nominations are due by Dec.12,1981. Frank has ordered a sort of the Orlando Section membership for AES, COMM, COMP, ED, IA, PE, and MTT. Delivery is expected by Dec.18. IEEE has not mailed "Senior Member"

Small
Eng in
Technology

certificates to recent upgrades pending accumulation of a quantity of material for sending to an engraver.

8. Education - Fred Simons reported on the forthcoming IEEE Satellite Demonstration Course. He reported that fees for the short course have been set at \$125 for 4 hours of air time plus 2 hours of workshop. Orange Cablevision has offered their facilities for a classroom. After discussion, Bill Cram moved, and Gerry White seconded a motion to decline participation based upon (1) excessive costs; (2) delays in establishing contacts at Orange Cablevision due to transfer of the individual referenced by IEEE; and (3) nonreceipt of brochures from IEEE, for publicizing the course. The motion was passed unanimously. Dr. Patz will advise each of the involved IEEE personnel by telephone, and will prepare a letter explaining our position. Fred Simons moved that Ben Patz be authorized to forward this letter to IEE without necessity for review of its text by the executive committee as a whole. Gerry White seconded the motion, and it passed unanimously.

Fred Simons also reported that he has located three possible library arrangements for control of circulation of the short course topic the section proposes to buy. These three are each in different areas at UCF. He is continuing to determine the best method of controlling circulation.

9. Ad-hoc Committee on IEEE Dues Increase - Fred Simons read a draft of the letter he has prepared. Russ Theisen recommended the letter be prepared for mailing to IEEE prior to their December, 1981 board meeting. Dr. Simons will prepare a final draft for signature by the section officers. Russ Theisen moved and Jeff Dick seconded the motion that the section officers be authorized to send this letter to the Presidents Executive Secretary, and board members of the IEEE and to the "Institute" for publication as an open letter. The motion passed unanimously.

10. Historian - Russ Theisen requires two copies of the minutes of the Sept, 1981 executive committee meeting. Russ reported that the Washington Office of the IEEE will now accept any IEEE historical records for a central archives.

11. Section Meeting - Russ Theisen announced the Dec. 10, 1981 meeting scheduled at John Young Museum on the subject of Retirement Investments.

12. FCIEEE - Mannie Connell, Ben Patz and Dave Flinchbaugh will attend the FCIEEE meeting at the Sheraton Jetport December 5, 1981.

13. Treasurer's Report - Joe Massett presented the treasurers report as shown below. Jeff Dick moved approval, Clark Hay seconded, and the motion carried.

14. Secretary's Minutes - The minutes of the November meeting were presented. On motion by Bill Cram, seconded by Russ Theisen, the minutes were approved. Jeff Dick commented on appreciating the format of the minutes and others generally concurred.

15. Publications - Ben Patz announced that George Taack has agreed to assume responsibility as Publications Chairman.

16. Publicity - David George's report on publicity was discussed. There was a consensus that the cost of professional public relations services was high for the purposes of the section. Without formal action, it was recommended that

we should investigate community service announcements on TV, Radio, Cable-vision and newspaper.

17. Advertising - Jeff Dick reported an offer from Tektronix to advertise in the Section notes. They would like to have the back page each month, but this is presently committed to H.P.

18. New Business - Ed Ellis requested all chapter meeting attendance records for 1981, not previously submitted, be furnished to him at the January, 1982 committee meeting.

Russ Theisen distributed copies of the announcement for Tutorial Week 82 East, to be held in Orlando, March 22-26. There will be 15 tutorials in three tracks.

Russ Theisen reported that the AAES and PAC are working for a change in IEEE policy 7.100, to promote engineering registration. The proposal affects use of the title, "Engineer", and requires use of registered engineers in all areas of engineering responsibility. He recommends the section executive committee study the proposed revisions and be prepared to comment on the subject if appropriate.

Russ Theisen has been nominated to the IEEE Computer Society Honor Roll.

The meeting was adjourned at 7:35 PM. The next meeting will be held at 5:30 PM, Tuesday, 5 January, 1982, at the same location.

Ed Ellis

Secretary, Orlando Section

IMPORTANT NOTICE

To assist in assembling the information for future Section Notes, the following dates should be remembered:

Publication Month	Material Due in	Date to Printer
February 1982	January 5	January 12
March 1982	February 2	February 9
April 1982	March 2	March 9
May 1982	April 6	April 13

The information should be given or mailed to either of the following:

George B. Taack, Jr.
4 Robinwood Drive
Longwood, Florida 32750
T. E. Ellis
902 Redbird Lane
Altamonte Springs, Florida 32701

Mail should be marked ATTN: SECTION NOTES

Your assistance will be appreciated in making sure the Section Notes are printed and mailed in time for everyone to receive them by the first of each month.

**Treasurer's Report
1 December 1981**

CASH BALANCE: 3 November 1981		
Checking	\$ 976.03	
Dreyfus	\$ 8558.52	<u>\$9534.55</u>
INCOME:		
Barbecue		
Receipts	\$ 79.50	<u>79.50</u>
EXPENSES:		
Secretary		
Mailings	\$ 7.19	
Section		
Notes (Nov)	86.65	
Bear Lake Rental	65.00	<u>158.84</u>
BALANCE:		<u>\$9455.21</u>
Checking Account		897.02
Dreyfus		8558.52-

ANNUAL BARBECUE TREASURER REPORT

1 December 1981

INCOME:		\$168.00
EXPENSES:		
Food	\$ 186.07	
Paper Products	9.26	
Beverages	119.60	
Sq. Dance Caller	80.00	
B-B-Q Tickets	32.00	
Facility Rental	<u>65.00</u>	<u>\$491.93</u>
NET LOSS:		<u>\$323.93</u>

**ELECTRON DEVICES
TOUR**

DATE: Monday, January 11, 1982
TIME: 3:30 PM
LOCATION: Florida Solar Energy Center
 300 State Road 401, Cape Canaveral

The tour of the Florida Solar Energy Center will be limited to a maximum of 20 people with **reservations only**.

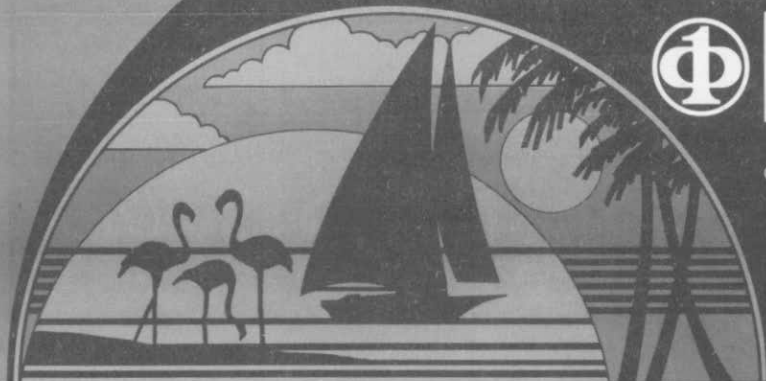
People taking the tour can meet at 2:15 PM at the east side of the Micro-Electronics Center at Martin Marietta to take part in a caravan to the center or can meet the tour at the center in Cape Canaveral.

Call Felix Llevada at 352-2558 for reservations.

Advance Announcement . . .

Tutorial Week 82

Φ EAST



General Chairman: Russell E. Theisen, Martin Marietta Aerospace
Program Chairman: Murali Varanasi, University of South Florida
Local Arrangements: Joseph Massett, Martin Marietta Aerospace
Donald Mendorf, Stromberg-Carlson
Publicity: Ben Patz, University of Central Florida
Treasurer: Harry Hayman, IEEE Computer Society

A solid week of tutorials in 3 tracks • March 22-26, 1982

Attendance limited to 125 per tutorial. Advance registration only: deadline—February 26, 1982

MONDAY, MARCH 22

TUESDAY, MARCH 23

WEDNESDAY, MARCH 24

THURSDAY, MARCH 25

FRIDAY, MARCH 26

①

Technology for VLSI
Design and Use
Rex Rice

②

Custom Design of VLSI
Ali Ibrahim

③

Microprocessor Interfacing
Techniques
Jack G. Lipovski

④

Interactive Computer
Graphics
Herbert Freeman

⑤

Raster Display
Graphics Systems
John Staudhammer

**Requirements Analysis
and Definition**

Anthony I. Wasserman

Software Design Techniques

Anthony I. Wasserman

**Systematic Construction
Techniques**

Anthony I. Wasserman

**Structured Programming:
Integrated Practices**

Victor R. Basili

**Models and Metrics for
Software Management and
Engineering**

Victor R. Basili

11

Data Communications

Marshall D. Abrams

12

Computer Networks

Marshall D. Abrams

13

Local Networks

Harvey A. Freeman

14

Data Base Tools

James A. Larson

15

**Data Base Management
System Design**

James A. Larson

Special note! In parallel with Tutorial Week East '82 is Southcon/82, March 23-25, in Orlando. Featured are over 400 exhibits and technical sessions. Convenient shuttle bus service will be provided.



REGISTER NOW! Attendance limited to 125. Select up to one tutorial per individual per day.

Per Tutorial All Week

FEES: Members	\$90	\$400
Nonmembers	\$110	\$500

Includes tutorial notes and luncheon. There will be a no-host reception on Monday night.

HOTEL ACCOMMODATIONS:

RESERVE YOUR ROOM NOW. Deadline for special rates: February 20, 1982.

Write to: **RESERVATIONS, IEEE-CS**
Tutorial Week
Orlando Marriott Inn
6700 Sand Lake Road
Orlando, FL 32807
(305) 351-2420 x7716

RATES: Single or Double: \$60.00

Mail to: Tutorial Week 82 East, Box 639, Silver Spring, MD 20901
(301) 589-3386

☐ I am interested in the following tutorials (please circle numbers):

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Please mail me the complete program announcement.

☐ I want to register right now. Enclosed is \$_____ to reserve space at the following tutorials (circle numbers as appropriate):

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

☐ Check enclosed

☐ VISA/BankAmericard

☐ Master Charge

Card
No. _____

Exp.
Date _____

Signature _____

Name _____

IEEE or IEEE-CS
Membership No. _____

Street Address _____

City/State/Zip _____



IEEE COMPUTER SOCIETY



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

THE POWER ENGINEERING SOCIETY AND THE INDUSTRIAL APPLICATIONS GROUP

DATE: Thursday, February 18, 1982

TIME: 7:30 pm

PLACE: Florida Power Corporation
510 S. Park Ave., Winter Park, Florida

SUBJECT: Measurement Applications in the Power Industry

SPEAKERS: Ed Browning and Max Davis Tektronix

Ed Browning will demonstrate a spectrum analyzer applications for use in the baseband and microwave frequencies.

Max Davis will present digital oscilloscope applications for testing circuit breakers, power transformers, and electromagnetic pulse testing.

COMMUNICATION SOCIETY DINNER MEETING

DATE: Wednesday, January 27, 1982

LOCATION: Dinner -- Steak & Ale on All American Way
Meeting -- Southern Bell Offices at Steyer St. and Mandarin Dr.

TIMES: Dinner 5:45 PM
Meeting 7:30 PM

TOPIC: NASA Communications

Mr. Robert 'Bob' Brown, Manager of NASA Communications, will give an overview of NASA Communications and then get into special communication requirements associated with the Space Shuttle Program.

All interested should call 339-1600 for reservations for the dinner and/or meeting.



FUTUTE MTT MEETING

DATE: February 25, 1982

Mr. George Bell of Microdyne will discuss the Current Receiver Technology for Home Satellite Applications. Time and site of the meeting have not been determined.

MTT & ELECTRON DEVICES JOINT MEETING

DATE: January 21, 1982
TIME: 7:00 PM
PLACE: Call Mickey Mindock at 352-2776 for the location
TOPIC: GaAs DOUBLE-DRIFT IMPATT DIODES AT EHF FREQUENCIES
SPEAKER: Daniel Masse', Principal Scientist
Raytheon's Research Division

GaAs double-drift IMPATT diodes have been developed which supply record power output and conversion efficiencies at 35 GHz. Considerable effort has been spent to further the state-of-the-art in material growth, diode fabrication and packaging technologies resulting in a device delivering 3W CW output power with an efficiency of 22 percent. There is strong experimental indication that GaAs will show the same advantages at yet higher frequencies.

This talk will describe the state-of-the-art of our 35 GHz GaAs double-drift IMPATT diodes. Starting from our CW results and using a large-signal computer model developed in-house, the device capabilities under pulse conditions will be predicted.

Mr. Masse' received his diploma in electrical engineering from Ecole Centrale de TSF, Paris, France in 1951. He joined Raytheon Company in 1957 to work on the development of ferrite devices.

Since May 1980, as assistant manager of the semiconductor laboratory, he is responsible for the IMPATT diode and circuit business area.

Mr. Masse' is a member of IEEE and of the Microwave Theory and Techniques and Electron Devices societies.

IEEE COMPUTER SOCIETY

Dr. Paul Wang of Duke University presented an interesting and informative talk on robotics at the December meeting. Ten persons enjoyed dinner at the Harley Hotel preceeding the meeting.

Dr. Wang's discussion emphasized his research in fuzzy-set theory and pattern recognition. His views on fifth generation computers, needed research, effects of robots on the blue collar worker, etc. were enjoyed by all.

The next meeting will be January 21. This is another of many opportunities to hear a distinguished computer scientist speak, to obtain current information related to your project, and to discuss your problems with other professionals in the field of Computer Engineering and Computer Science.

Both members and nonmembers are invited and encouraged to attend. Additional information is available from any officer of the Computer Society.

Dr. G. C. White
Chairman



IEEE COMPUTER SOCIETY

Merlin G. Smith
IBM Thomas J. Watson Research Center
P.O. Box 218
Yorktown Heights, NY 10598

September 30, 1981

Mr. Russell E. Theisen
2667 Fitzhugh Road
Winter Park, FL 32792

Dear Mr. Theisen:

The IEEE Computer Society Awards Committee is pleased to inform you that you have been selected to receive the Society's

Honor Roll

"For service to the IEEE Computer Society as Secretary and Treasurer, and for his dedication to membership and chapters functions."

We wish to present this award to you at the opening plenary session of one of our major conferences, COMPCON Spring, COMPCON Fall or COMPSAC. You are cordially invited to attend the Awards Luncheon at noon following the plenary session. If you cannot receive the award at one of these conferences, we can arrange the presentation at another IEEE Computer Society function. Please provide the needed information on the attached form and return it to the chairman of the Awards Committee as soon as possible.

On behalf of the Society, we extend our sincerest appreciation for your contributions.

Respectfully,


Merlin G. Smith
Chairman, Awards Committee

MGS:mp
Attachment

cc: Awards Committee
O.N. Garcia
T. Seaborn

 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

AES — SME JOINT DINNER MEETING

DATE: Thursday January 28, 1982

TIME: Social Hour 6:30 p.m.^o
Dinner 7:00 p.m.
Meeting 8:00 p.m.

LOCATION: Sundance Inn at I4 & 436

TOPIC: Robotics & Automation in Industry, Aerospace, and Hydrospace
Call Dave Flinchbaugh for reservations at 422-2662, Ext 410

IEEE ORLANDO EXECUTIVE COMMITTEE
EXECUTIVE BOARD

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Publicity	David George	859-5120	644-1009
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Membership Develop.	Frank Fluet	843-7030	339-8905

SPECIAL COMMITTEES

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SOUTHCON	Bruce E. Mathews	275-2156	645-0549
Advertising Manager	William A. Kownacki	843-8484	365-5818
Historian	Russell E. Theisen	352-3877	671-4139
Member at Large	William C. Cram		647-4123

SOCIETY CHAPTER OFFICERS

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Comm.	Chmn.	Don Mendorf	339-1000	869-7435
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	Secy.	Bill Strickland	351-9960	
	Mbrshp.	Walt Wolters	351-9901	
Computer	Chmn.	Gerry White	646-4497	678-3621
	Pgm. V. Chmn.	Clark M. Hay	339-1600	677-0246
	Mbr. V. Chmn.	William Joseph	352-4126	299-7399
	Secy.	Stephen Moulton	352-2236	830-9034
Electron Dev.	Chmn.	Deen Khandelwal (organizer)	352-2583	277-5959
	Chmn.	Ralph M. Mindock	352-2776	862-7764
	V. Chmn.	Jim Crouch	352-3966	857-3788
	Chmn.	Al Fowler (St. Cloud)	627-2141	892-4776
	Chmn.	Geoffrey E. Dick	352-3559	678-0979
	V. Chmn.	Joseph R. Miller	646-8233	644-7049
	Secy.	Roger D. Bowman	646-8222	275-7208
Student Br.	Chmn.	Michael Robitaille (Kissimmee)	275-2786	671-6088
	V. Chmn.	David Kotick		678-6710
Recordg. Secy.		Diane Pavik		282-1941
Corresp. Secy.		Karen Riley		
	Treas.	Jon Klages		275-0023
Stu. Cmptr.	Chmn.	Tom Toor	275-2786	282-6359
	V. Chmn.	Art Weeks	275-2786	677-6472
	Secy. Treas.	Jon Klages		275-0023

The Executive Committee meets January 5th at Stromberg-Carlson Training facility, US 17-92 Lee Rd., at 5:30 p.m. Members are welcome to attend.

All IEEE Members

V. Chmn. Carl F. Schupemann 352-4366 647-4992
Secy. Larry W. Pack 352-4560 671-4047

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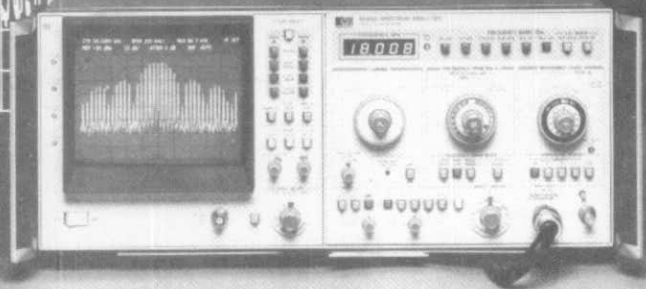
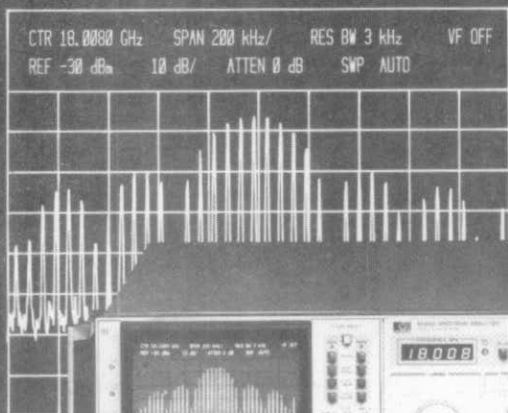
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VOLUME XVII
Number 2
February 1982

ORLANDO SECTION NOTES

AWARDS BANQUET



WINSTON PENDLETON
"This is Your Day"

Story on page 2

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS

AWARDS BANQUET

Winston K. Pendleton, of Windermere, Florida, Nationally known humerous speaker and author will be the principal speaker at the Awards Banquet to be held at the House of Beef on 13 February 1982 at 6:00 P.M..

Mr. Pendleton is the author of several books including, HOW TO STOP WORRYING--FOREVER. "Worry and anxiety," he says, "cause more unhappiness and misery in the world than all other factors put together. And none of it is necessary." His talk "This Is Your Day" concerns the destructive effects of worry. He will give his plan for ridding you of your worries--once and for all.

Another of his books, PURSUIT OF HAPPINESS, has become a national best seller. It has been read onto tape cassettes by Earl Nightingale as part of his inspirational motivation program.

For 15 years, Mr. Pendleton worked in Washington, D.C. as a newspaperman and public relations consultant. He now lives in Windermere, a quiet village with unpaved streets, where he spends his time speaking, writing, relaxing and helping people overcome their tensions and worries.

CHAIRMAN'S CORNER

Technical and social activities for the Orlando Section abound for the next few months. First we have the annual Awards Banquet, to honor outstanding area electrical engineers, on 13 February at the House of Beef. Mr. Winston Pendleton is speaking. He is well known as the "Sage of Windermere" and an outstanding professional speaker. This is one Awards Banquet our wives will be glad they attended. Be sure to get tickets from section officers listed on the last page of these notes.

Next we have SOUTHCON and Tutorial Week East in March. SOUTHCON is 23-25 March and Tutorial Week East is 22-26 March at the Orlando Marriott. SOUTHCON will feature an outstanding technical program and a hugh exposition. There is an application for Tutorial Week East contained in these notes.

April offers SOUTHEASTCON at Destin, Florida. This is the IEEE Region III Conference featuring technical sessions. SOUTHEASTCON is at the Sandestin from 5-7 April.

You need to get your paperwork started if you are going to attend any of these major events. Please check the technical programs offered locally and advertised herein. These are free to anyone wishing to attend.

MEETING NOTICE

I E E E ELECTRON DEVICES SOCIETY

DATE: FEBRAURY 11, 1982

PLACE: South Orlando Campus of U.C.F.
7300 Lake Ellenor Drive
Orlando Central Park

TIME: 7:00 p.m.

SPEAKER: Mr. Pete Normington
Manager Semiconductor Services
Spire Corporation
Bedford, Massachusetts

SUMMARY: Mr. Normington will discuss the various semiconductor services offered by the Spire Corporation. Topics to be covered include the ion implanatation, and epitaxy services offered for silicon and GaAs products.

THE POWER ENGINEERING SOCIETY AND THE INDUSTRIAL APPLICATIONS GROUP

DATE: Thursday, February 18, 1982

TIME: 7:30 pm

PLACE: Florida Power Corporation
510 S. Park Ave., Winter Park, Florida

SUBJECT: Measurement Applications in the Power Industry

SPEAKERS: Ed Browning and Max Davis Tektronix

Ed Browning will demonstrate a spectrum analyzer applications for use in the baseband and microwave frequencies.

Max Davis will present digital oscilloscope applications for testing circuit breakers, power transformers, and electromagnetic pulse testing.

FUTURE MTT MEETING

DATE: February 25, 1982

Mr. George Bell of Microdyne will discuss the Current Receiver Technology for Home Satellite Applications. Time and site of the meeting have not been determined.

IEEE ORLANDO SECTION EXECUTIVE COMMITTEE MEETING 5 JANUARY 1982

The meeting was called to order by the Section Chairman, Ben Patz, at 5:35PM at Stromberg-Carlson Corporation in Winter Park. Those attending, including late arrivals, were:

Ben Patz	George McClure	Russ Theisen
Mannie Connell	David George	Bill Cram
Ed Ellis	Clark Hay	Ernest Erickson
Joe Massett	Al Fowler	Mickey Mindock
Fred Simons	Gerry White	Don Mendorf
Frank Fluet	Jeff Dick	Dave Flinchbaugh

1. The minutes of the 1 December 1981 meeting were reviewed and approved. One error was later noted and correction made: In Paragraph 4, AES report, the Nov. 1981 meeting topic should read "Aerospace Contributions to Small Engine Technology" (Motion Bill Cram, Seconded Frank Fluet).
2. Communications Chapter Report: Pending arrival of Don Mendorf, Ed Ellis reported the next meeting will be Wednesday, Jan. 27 on the topic of NASA Communications. Due to temporary change in assignment of the announced speaker (Bob Brown), Mr. Art Greene will make the presentation. Plans for a February 1982 meeting are not sufficiently well developed to announce.
3. Computer Society Report - Gerry White distributed announcements for the Jan. 21 meeting, as shown below.

IEEE COMPUTER SOCIETY NEXTED PROGRAM STRUCTURE CONSIDERED HARMFUL

In a logical extension of the classic 'GO-TO considered harmful' by Edsger Dijkstra which has led to development of a multitude of structured programming techniques Dr. Lori Clarke will argue that a nested program structure interferes with program development and readability and that the resulting tree-like structure is generally an unnatural representation of the program. She will present a programming style that eschews blocks and the nesting of program units and instead uses packages like the Ada data abstraction construct as a mechanism for controlling visibility. The ramifications of this proposal for data flow, control flow, and overall program structure will be considered.

Lori Clarke received the BA degree in mathematics from the University of Rochester in 1969 and the PhD degree in computer science from the University of Colorado in 1976. She is currently an Associate Professor at the University of Massachusetts. Her interests include software validation and verification, programming methodology, and compiler design.

The meeting will start with dinner at 6 PM at Bahama Joe's on US 17-92 in Sanford and will continue at 7 PM to 9PM at the Stromberg-Carlson Engineering Development Center on US 17-92 in Longwood. Entry will be through the night entrance in the East (back) parking lot.

Call Clark Hay 339-1600 or Jerry White 646-4491 for further information.

4. Electron Devices Report - Mickey Mindock distributed copies of a meeting notice for the E.D. meeting scheduled for 11 February. This notice will be published in the February section notes. He also distributed a report on activities as listed below, and a meeting notice for a 21 January meeting, shown below:

ELECTRON DEVICES SOCIETY REPORT

January 5, 1982

Two successful meetings were held in November. The first was a talk by E.T. Maloney on "Pulsed Solid State Laser Material Processing" on November 5, 1981. Twenty-three people attended the talk at Martin Marietta. The second talk was by Dr. Norm Byer on "Mercury Cadmium Telluride Photodevice Technology". Twenty-eight people attended this talk which was held on November 18, 1981.

There were no local meetings in December but M. Mindock attended the International Electron Devices meeting in Washington. A copy of the digest is available for review from him.

There are two activities planned for January. The first will be a tour of the Photovoltaic house at the Florida Solar Energy Center. The tour will be January 11, in the afternoon and is limited to 20 people. Contact Felix Llevada at Martin Marietta for more details. The second meeting will be jointly held with the Microwave Theory and Techniques Society on Jan. 21, 1982. The talk will be given by Dr. Masse' of Raytheon Corporation and is entitled "GaAs Double-Drift IMPATT Diodes at EHF Frequencies" (see attached meeting notice).

Activities planned for February include a talk by Mr. Pete Normington from Spire on the semiconductor services offered by that company.

In an effort to obtain greater participation in the Electron Devices Society, a letter will be sent to manufacturers of semiconductor products and their representatives in the local area asking for their participation in future events. A copy of the letter is attached.

MEETING NOTICE

JOINT MEETING OF IEEE ELECTRON DEVICES SOCIETY AND IEEE MICROWAVE THEORY AND TECHNIQUES SOCIETY.

DATE:

January 21, 1982

PLACE:

South Orlando Campus of U.C.F., 7300 Lake Ellenor Drive, Room 107, Orlando Central Park

TIME:

7:00 PM

SPEAKER:

Daniel Masse', Assistant Manager of Semiconductor Laboratory, Raytheon Company

SUMMARY:

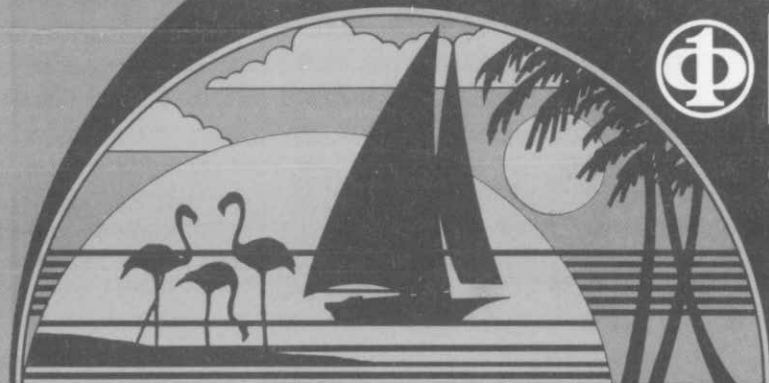
The talk will describe the state-of-the-art of Raytheon's 35 GHz GaAs double-drift IMPATT diodes.

ABOUT THE SPEAKER:

Mr. Masse' received his diploma in electrical engineering from Ecole Centrale de TSD, Paris, France in 1951. He joined Raytheon Company in 1957 to work on

Advance Announcement . . .

Tutorial Week Φ EAST 82



General Chairman: Russell E. Theisen, Martin Marietta Aerospace
Program Chairman: Murali Varanasi, University of South Florida
Local Arrangements: Joseph Massett, Martin Marietta Aerospace
Donald Mendorf, Stromberg-Carlson
Publicity: Ben Patz, University of Central Florida
Treasurer: Harry Hayman, IEEE Computer Society

A solid week of tutorials in 3 tracks • March 22-26, 1982

Attendance limited to 125 per tutorial. Advance registration only: deadline—February 26, 1982

MONDAY, MARCH 22

TUESDAY, MARCH 23

WEDNESDAY, MARCH 24

THURSDAY, MARCH 25

FRIDAY, MARCH 26

①

Technology for VLSI
Design and Use
Rex Rice

②

Custom Design of VLSI
Ali Ibrahim

③

Microprocessor Interfacing
Techniques
G. Jack Lipovski

④

Interactive Computer
Graphics
Herbert Freeman

⑤

Raster Display
Graphics Systems
John Staudhammer

⑥

⑦

⑧

⑨

⑩

and Definition

Anthony I. Wasserman

Anthony I. Wasserman

Techniques

Anthony I. Wasserman

Integrated Practice

Victor R. Basili
F. Perry BakerSoftware Management and
Engineering

Victor R. Basili

11

Introduction to
Data Communications
Marshall D. Abrams

12

Computer Networks
Marshall D. Abrams

13

Local Computer Networks
Harvey A. Freeman

14

Data Base Tools
Harvey A. Freeman
James A. Larson

15

Data Base Management
System Design
James A. Larson
Harvey A. Freeman

Special note! In parallel with Tutorial Week East '82 is Southcon/82, March 23-25, in Orlando. Featured are over 400 exhibits and technical sessions. Convenient shuttle bus service will be provided.



REGISTER NOW! Attendance limited to 125. Select up to one tutorial per individual per day.

Per Tutorial All Week

FEES: Members	\$95	\$400
Nonmembers	\$110	\$500

Includes tutorial notes and luncheon. There will be a no-host reception on Monday night.

HOTEL ACCOMMODATIONS:

RESERVE YOUR ROOM NOW. Deadline for special rates: February 20, 1982.

Write to: RESERVATIONS, IEEE-CS

Tutorial Week
Orlando Marriott Inn
6700 Sand Lake Road
Orlando, FL 32807
(305) 351-2420 x7716

RATES: Single or Double: \$60.00

Mail to: Tutorial Week 82 East, Box 639, Silver Spring, MD 20901
(301) 589-3386

☐ I am interested in the following tutorials (please circle numbers):

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Please mail me the complete program announcement.

☐ I want to register right now. Enclosed is \$_____ to reserve space at the following tutorials (circle numbers as appropriate):

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IEEE COMPUTER SOCIETY



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

the development of ferrite devices.

Since 1967 he has been a staff member in the Solid State Physics and Microwave group of the Research Division. He has worked on material characterization procedures for ferrite, dielectrics and semiconductors. He has studies electromagnetic propagation in microstrip on dielectric and ferrit substrates. In the semiconductor laboratory since 1974, he has been engaged in the design and characterization of device and circuits using FETs and IMPATT diodes.

Since May 1980, as assistant manager of the semiconductor laboratory, he is responsible for the IMPATT diode and circuit business area.

5. Microwave Theory and Techniques - Al Fowler reported on their December meeting. Although there were only 10 present, Transteck Corp., who furnished the speaker, also paid for all refreshments and contributed a check for \$150.00 to the section treasury. The next meeting of MTT will be Feb. 25. See section notes for details.

6. Power Engineering and Industrial Applications - Jeff Dick reported their next meeting will be 18 February on Measurement Applications in the Power Industry. See January Section notes for details.

7. Program Committee Report - Ben Patz reported on plans for the annual awards banquet. After discussion of alternatives, it was determined that the banquet will be at the House of Beef on Saturday 13 February unless there are problems with speakers or facilities arrangement. Details will be published in the February Section notes. All nominations for awards must be delivered to Mannie Connell no later than Jan. 15.

8. Treasurer's Report - Joe Massett presented the treasurer's report shown below. The treasurer's report was accepted on motion by G. McClure, seconded by R. Theisen.

IEEE ORLANDO SECTION TREASURER'S REPORT 5 JANUARY 1982

CASH BALANCE: 1 December 1981

Checking	\$	897.02
Dreyfus		8558.52

INCOME:		\$ 9455.21
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MTT	150.00	
(Transteck)		
Dreyfus Dividend	351.16	501.16

EXPENSES: December 1981

MTT Mailing	10.00	
MTT Slide Proj. Rent	23.00	
MTT Speaker Dinner	76.16	
Section Notes (Dec.)	157.25	
MTT Telephone	3.91	-270.32

B A L A N C E :		\$ 9686.05
-----------------	--	------------

Checking Account	776.32	
Dreyfus		8909.68

9. Membership Development - Frank Fluet presented the report shown below. Present Section membership is 884.

MEMBERSHIP DEVELOPMENT COMMITTEE REPORT

1. Copies of listings of Orlando IEEE members organized by active membership in the following societies - AES, COMM, ED, IA, MTT, PE, COMP - are available for each society chairman.

2. This Field Service order form (FS-25) for "Label/Roster Requests for Geographic Units" is the form to be used for similar future membership sorts.

3. I have four copies of the "New" Fellow Nominations Kit if anyone needs them.

4. Volunteers are needed to supervise a registration committee for four days, Monday, May 24 thru Thursday, May 27, for "The International Semiconductor Power Converter Conference" at the Orlando Hyatt Hotel (600 to 700 attendees expected). If able to help please call Frank Fluet, 339-8905 (Home), 843-7030 (Business).

10. Publicity - David George reported that he has made arrangements for radio, TV and newspaper announcements of meetings and other public service type publicity. Item should be sent to him as follows:

Mr. David George, 160 Tangerine Place, Maitland, FL 32751

11. Awards - Mannie Connell emphasized need to have awards nominations to him by Jan. 15. Fred Simons questioned the allocation of evaluation points with little consideration to patents and other directly measurable accomplishments. Since such accomplishments carry weight within other point assignments, the allocation will remain unchanged at least for the current evaluations.

12. Professional Activities - Ed Ellis reported no local activity; but nationally, a patent reform bill has been introduced in Congress.

13. Tutorial Week East - Russ Theisen reported five registrants to date, even though registration deadline is Feb. 16, almost two months away.

14. Education - Fred Simons reported that a short course will be presented on Digital Signal Processing. Publicity will be limited to Section notes and selected companies with a record of past support or with special interest in the topic. It is felt this will maintain a better bound on mailing costs.

15. IEEE Dues - Fred Simons reported that work at UCF has precluded his completion of the letter of protest the Section planned to send IEEE. He expects he can complete the letter within the next few weeks.

16. Aerospace and Electronic Systems - Dave Flinchbaugh called attention to the meeting scheduled for Jan. 28 on the subject "Robotics & Automation in Industry, Aerospace and Hydrospace". See Jan. Section notes for details.

17. Region 3 Executive Committee meeting - Dave Flinchbaugh reported he will be unable to attend the Jan. 23 meeting. Vernon Powers will attend and should be able to represent our interests.

18. FCIEEE - The next meeting of the Florida Council, IEEE, will be Sat. Jan. 30, at 9:00AM, at the Orlando Sheraton Jetport.

19. Historian - Russ Theisen reports no activity.

20. Bylaws - Ernie Erickson reported the bylaws committee will be meeting in January.

21. Old Business - Ben Patz phoned IEEE headquarters to advise the Orlando

22. New Business - Ed Ellis requested all chapter meeting reports be sent to him within the next two weeks in order to furnish a summary to IEEE by the Feb. 1 deadline.
23. Section Notes - George Taack will be out of town for one to six months, and Ed Ellis reported he will fill in on assembling information for the Section notes. The deadlines published in the January Section notes should be observed.
24. Shortage of Engineers - George McClure distributed a summary of comments on shortage of engineers, as highlighted in the January 1982 issue of "The Institute", news supplement to the IEEE Spectrum. He suggested we use the Section notes as a means of soliciting comments from Orlando area members, as to the reality and degree of concern about reports of engineering manpower shortages.
25. Southeastcon - Al Fowler inquired about the type of program Southeastcon normally presented. The response was that its primary emphasis was as a forum for student and faculty papers.
26. Chapter's Representative to Section Executive Board - Bill Cram reminded group chapter officers that a Chapter's representative had not yet been designated.
27. Southcon - Ben Patz requested a volunteer to serve on the host committee for Southcon. He must furnish a name by Jan. 15, for a meeting to be held in Orlando on March 23.
28. The meeting adjourned at 7:00 PM. The next meeting will be at 5:30PM Tuesday Feb. 2, at the same location.

Ed Ellis

Secretary, Orlando Section

ANTENNAS & PROPOGATION and MICROWAVE THEORY & TECHNIQUES JOINT SOCIETY MEETING

DATE:	Thursday February 25, 1982
TIME:	Call Al Fowler, 678-2141
LOCATION:	
TOPIC:	Current receiver technology for home satellite applications
SPEAKER:	George Bell, Microdyne Corp.

IEEE ORLANDO EXECUTIVE COMMITTEE EXECUTIVE BOARD

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Vice Chairman	Mannie Connell	351-2710	273-8588
Secretary	T. E. (Ed) Ellis	339-1600	834-3319
Treasurer	Joe Massett	352-3858	834-3448

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Sr. Past Chairman	Ernest E. Erickson	275-2310	365-5560
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Publicity	David George	859-5120	644-2596
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	Mbrshp.	Walt Wolters	351-9901	
Computer	Chmn.	Gerry White	646-4491	678-3621
	Pgm. V. Chmn.	Clark M. Hay	339-1600	677-3114
	Mbr. V. Chmn.	William Joseph	352-4126	299-7399
	Secy.	Stephen Moulton	352-2236	830-9034
Electron Dev.	Chmn.	Deen Khandelwal (organizer)	352-2583	277-5959
	Chmn.	Ralph M. Mindock	352-2776	862-7764
	V. Chmn.	Jim Crouch	352-3966	857-3788
AP/MTT	Chmn.	Al Fowler	678-2141	365-5772
	V. Chmn.	Carl F. Schunemann	352-4366	647-4992
	Secy.	Larry W. Pack	352-4560	671-4047
PE IA	Chmn.	Geoffrey E. Dick	352-2796	678-0979
	V. Chmn.	Joseph R. Miller	646-8233	644-7049
	Secy.	Roger D. Bowman	646-8222	275-7208
Student Br.	Chmn.	Michael Robitaille	275-2786	671-6088
	V. Chmn.	David Kotick		678-6710
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	Corresp. Secy.	Karen Riley		
	Treas.	Jon Klages		275-0023
Stu. Cmptr.	Chmn.	Tom Toor	275-2786	282-6359
	V. Chmn.	Art Weeks	275-2786	677-6472
	Secy. Treas.	Jon Klages		275-0023

The Executive Committee meets February 2nd at Stromberg-Carlson Training facility, 1517-92 Lee Rd., at 5:30 p.m. All IEEE members are welcome to attend.

at

the first Tuesday of each month

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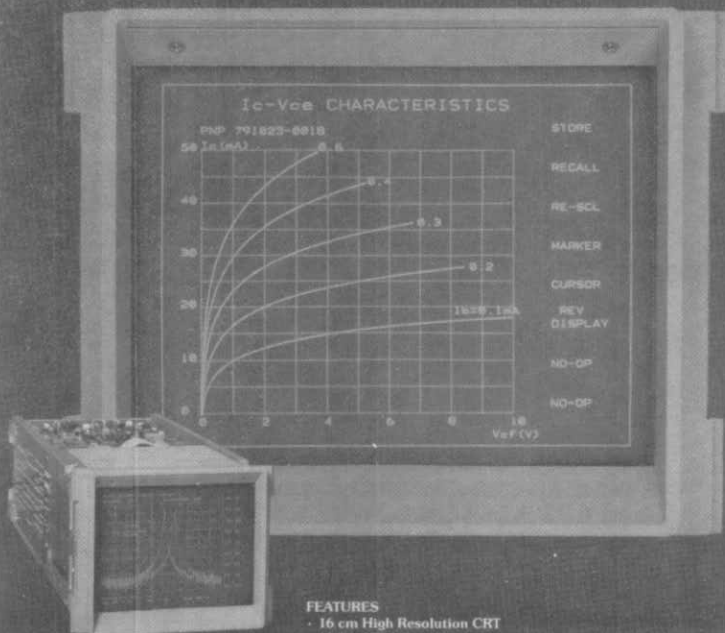
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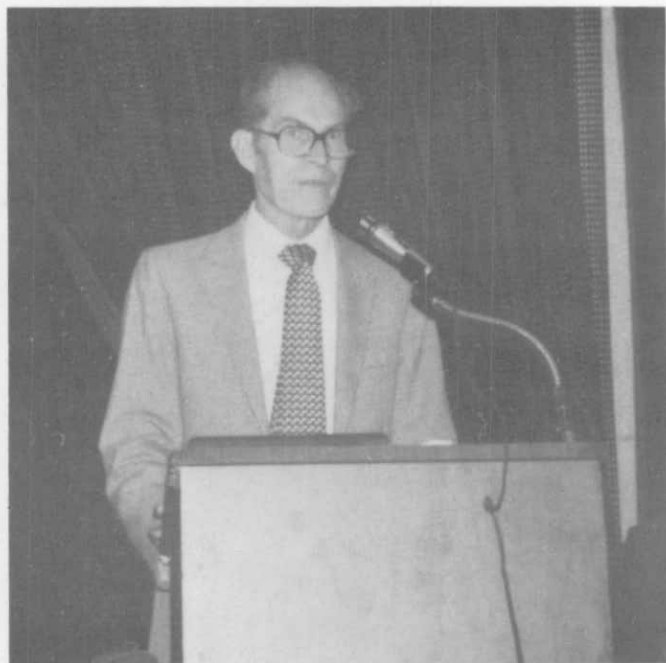
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VOLUME XVII
Number 3
March 1982



ORLANDO SECTION NOTES

Electrical Engineer of the Year



DR. ERNEST E. ERICKSON

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS

MODERN POWER CONVERSION MAGNETICS DESIGN

to be conducted by

COLONEL WM. T. McLYMAN

of the
JET PROPULSION LABORATORIES
at the
California Institute of Technology

This intensive three-day short course is intended for electrical and electronic engineers desiring a practical education in the design and development of magnetic components for use in state-of-the-art power processing equipments. Over the period of each course, attendees will cover key design principles at an understandable pace and gain practical insight and experience from in-class exercises into the design aspects of modern-day power conversion magnetic circuit elements.

Colonel McLyman of JPL is one of the best-known experts in the specialized art of magnetics design and the author of two widely used handbooks on this subject. From the general properties of magnetic materials to the optimum design approaches for high frequency power converter transformer and inductive components, the emphasis throughout the course's lectures is on practicality. Each attendee will also receive a copy of the latest work of the instructor, **MAGNETIC CORE SELECTION FOR TRANSFORMERS AND INDUCTORS**, a 750-page design manual to be published in February, 1982 by Marcel Dekker, Inc.

The course has been structured by Colonel McLyman and our association so as to provide attendees with an indepth exposure to all facets of this important and essential design art, and to equip them with easy-to-use design tools for immediate on-the-job application.

WHEN IN 1982

April 20-22

May 19-21

June 2-4

July 7-9

August 18-20

September 15-17

WHERE

Sherman Oaks (Los Angeles), California

Orlando, Florida

Boston, Massachusetts

San Jose, California

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Anaheim (Los Angeles), California

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(indicate course date)

Find enclosed \$410 (+ \$40 late fee if registering 14 days before selected date). NOTE — lodging costs are NOT included in the course price.

☐ Send more information about the course and the new magnetics design manual.

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PROCLAMATION

State of Florida
Executive Department
Tallahassee

WHEREAS, the electronics industry represents a key element in the overall well-being and progress of Florida's economy; and

WHEREAS, there are 131 original equipment electronic firms in Florida with a total of approximately 75,000 employees; and

WHEREAS, the rapid development of high technology industry in Florida has resulted in Orlando being selected as the host city for SOUTHCON, a major electronic trade show and conference; and

WHEREAS, the State of Florida recognizes the value of this rapidly growing industry to the future prosperity of the State;

NOW, THEREFORE, I, Bob Graham, by virtue of the authority vested in me as Governor of the State of Florida, do hereby proclaim March 1982 as

ELECTRONICS MONTH

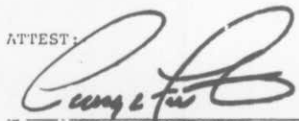
in Florida and urge all citizens to join with me in saluting the contributions of this industry to our economy.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Great Seal of the State of Florida to be affixed at Tallahassee, the Capital, this 15th day of February in the year of our Lord nineteen hundred and eighty-two.




GOVERNOR

ATTEST:


SECRETARY OF STATE

**IEEE ORLANDO SECTION
EXECUTIVE COMMITTEE MEETING
2 February 1982**

The meeting was called to order by the Section Chairman, Ben Patz, at 5:45 PM at Stromberg-Carlson Corporation in Winter Park. Those attending, including late arrivals were:

Ben Patz	Dave Flinchbaugh
Mannie Connell	Don Mendorf
Joe Massett	Bill Strickland
George McClure	Clark Hay
Richard Miller	Mickey Mindock
Frank Fluet	Jeff Dick
Russ Theisen	Bill Cram

1. The treasurer's report as shown below, was presented and accepted by voice vote. It was noted that expenses for section notes included \$288 for 925 copies of the January notes, and a \$65 carryover from the December notes.

**TREASURER'S REPORT
2 February 1982**

CASH BALANCE:	5 January 1982	
Checking	\$ 776.32	
Dreyfus	\$ 8,909.68	\$ 9,686.05
INCOME:		---
EXPENSES:	January 1982	
Section Notes (January)	\$ 353.00	
Postmaster	200.00	\$ 553.00
BALANCE:		\$ 9,133.05
Checking		\$ 223.37
Dreyfus		\$ 8,909.68

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Advance Announcement . . .

Tutorial Week 82

Φ EAST

General Chairman: Russell E. Theisen, Martin Marietta Aerospace
Program Chairman: Murali Varanasi, University of South Florida
Local Arrangements: Joseph Massett, Martin Marietta Aerospace
Donald Mendorf, Stromberg-Carlson
Publicity: Ben Patz, University of Central Florida
Treasurer: Harry Hayman, IEEE Computer Society

A solid week of tutorials in 3 tracks • March 22-26, 1982

Attendance limited to 125 per tutorial. Advance registration only: deadline—February 26, 1982

MONDAY, MARCH 22

TUESDAY, MARCH 23

WEDNESDAY, MARCH 24

THURSDAY, MARCH 25

FRIDAY, MARCH 26

①

Technology for VLSI
Design and Use

Rex Rice

②

Custom Design of VLSI
Ali Ibrahim

③

Microprocessor Interfacing
Techniques

G. Jack Lipovski

④

Interactive Computer
Graphics

Herbert Freeman

⑤

Raster Display
Graphics Systems

John Staudhammer

Requirements Analysis
and Definition
Anthony I. Wasserman

Software Design Techniques
Anthony I. Wasserman

Systematic Construction
Techniques
Anthony I. Wasserman

Structured Programming:
Integrated Practices
Victor R. Basili
F. Perry Baker

Models and Metrics for
Software Management and
Engineering
Victor R. Basili

11

Introduction to
Data Communications
Marshall D. Abrams

12

Computer Networks
Marshall D. Abrams

13

Local Computer Networks
Harvey A. Freeman

14

Data Base Tools
Harvey A. Freeman
James A. Larson

15

Data Base Management
System Design
James A. Larson
Harvey A. Freeman

Special note! In parallel with Tutorial Week East '82 is Southcon/82, March 23-25, in Orlando. Featured are over 400 exhibits and technical sessions. Convenient shuttle bus service will be provided.



Registration at the door is

\$125.00 for non students

\$ 50.00 for students

Tutorial Week East 82 is at the Orlando Marriott Inn, 6700 Sand Lake Rd., Orlando



IEEE COMPUTER SOCIETY



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

2. The minutes of the 5 January 1982 meeting were reviewed, with the correction noted on item #21, where one line was omitted. This item should have read "Old Business - Ben Patz phoned IEEE headquarters to advise the Orlando section would not participate in the TV class by satellite". There was also a typographical error in item #3 in that the subject of the Computer Society January 21 meeting should have read "Nested Program Structure Considered Harmful". The minutes were accepted with noted corrections.

3. **Communications Society** - Don Mendorf reported on their successful meeting on January 27, at which Art Greene spoke on NASA Communications at KSC. Don also introduced Bill Strickland, chapter secretary, who was attending the executive committee meeting for the first time. The Communications Society has no meeting scheduled for February.

4. **Computer Society** - Clark Hay reported on their meeting of January 21, which was well attended and well received. The next Computer Society meeting will be a tour of Navy Training Center facilities, held jointly with ACM on Thursday, March 25. They also have a meeting scheduled for April 20 on Software Quality Assurance and May 18 with a distinguished visitor speaking on Confident Software Cost Estimation.

5. **Electron Devices** - Mickey Mindock reported on their two technical meetings in January. The next scheduled ED meeting will be February 11, with Mr. Peter Normington of Spire Corporation speaking. No ED meetings have been scheduled for March or April.

ELECTION DEVICES SOCIETY REPORT

February 2, 1982

Two meetings were held in January. The first was a tour of the photovoltaic test house at the Florida Solar Energy Center, Cape Canaveral. Eight people participated in the tour. On January 21, 1982, a joint meeting was held with MTT. Daniel Masse from Raytheon gave an excellent presentation on GaAs double drift IMPATT diodes. Nineteen people attended this meeting.

A meeting is scheduled for February 11, 1982. Mr. Pete Normington, Spire Corporation will discuss various semiconductor services (ion implantation and epitaxy) offered by Spire. See attached notice.

Submitted by
Mickey Mindock

6. **Power Engineering and Industrial Applications** - Jeff Dick called attention to their scheduled February 18 meeting as announced in the January Section Notes: two speakers from Tektronix who will demonstrate and discuss "Measurement Applications in the Power Industry". On March 18, PE & IA will have Paul Lewis of Florida Power Corp., speaking on the Florida Power energy management program through which both commercial and residential customers are offered incentives to participate in their remote-controlled load management program.

7. **Aerospace and Electronic Systems** - Dave Flinchbaugh reported on the AES meeting of January 28.

8. **Programs** - Mannie Connell reported on the planned program for the Awards Banquet to be held February 13, 1982. Ben Patz requested reports on ticket sales be telephoned to him by Wednesday, February 10, to permit him to provide a final count to the restaurant.

9. **Professional Activities Committee** - Ed Ellis reported on a letter from Irwin Feerst reporting:

(a) A petition (copy available from Ed Ellis) for the Americanization of IEEE. As is the case with ASME, ASCE and AICHE, foreign engineers would not be excluded, but goals peculiar to American Engineers could become the goals of the IEEE.

(b) Concern over IEEE embracing the AAES and pledging \$1 of each member's yearly dues to AAES, without referral to the IEEE membership. Mr. Feerst has presented talks on this concern to eleven sections, and is willing to speak to other sections if invited.

(c) Concern about accuracy of the AEA Technical Manpower Projection. He feels it may encourage more entrants into engineering studies than can be accommodated. More information on each of these items is available from Ed Ellis.

10. **Awards** - Manny Connell reported the Awards Committee has nominated Russ Theisen for the IEEE Region 3 Service Award, and plans to nominate Ben Patz as Region 3 Engineer of the Year.

11. **Student Activities** - Dick Miller reported on the current student activity preparing for the Engineering Fair. The student chapters have nominated an undergraduate student and a graduate student for outstanding student awards, and have nominated their department head for the section Engineer-of-the-Year award.

12. **Southcon** - Ben Patz reported that he, Ed Ellis and Bill Cram will each serve for a period as host in the VIP Lounge at Southcon. Space has not been reserved for an IEEE membership booth, but the Southcon committee plans to allocate some space.

13. **FCIEEE** - Mannie Connell reports complimentary passes to Southcon are available from FCIEEE representatives and exhibitors.

14. **Bylaws** - No activity to report.
15. **Autotescon** - Clark Hay will present the section a check for \$8000 as the major part of the Autotescon profit distribution to the host section. The check will be presented at the annual awards banquet.
16. **Tutorial East** - Russ Theisen reported in excess of 100 registrants to date, with advance registration continuing through February 26.
17. **New Business**
 - (a) Jeff Dick moved that two free tickets to the awards banquet be given to each nominee for Engineer of the Year and each nominee for Outstanding Student Award. Seconded by Russ Theisen, the motion carried.
 - (b) Frank Fluet was requested to send two tickets and a letter of invitation to the awards banquet, to each fellow and each life fellow member of the section.
 - (c) Don Mendorf presented a copy of an editorial from EDN magazine criticizing the lack of concern of the IEEE Board for the wishes of the IEEE membership as a whole. Don recommends that all members make a habit of expressing their concerns to the members of the board, and particularly, expressing reaction to any actions which have been taken with inadequate opportunity for membership input to the decision-making process.
 - (d) Joe Massett moved that four student scholarships be awarded for Tutorial East 1982. Recipients should be selected by the Student Activities Committee, and the scholarships should be awarded "at the door" with no pre-registration, both because of reduced cost for such attendance and to discourage use for courses which may be over-subscribed. The motion was seconded by Don Mendorf, and was passed.
18. **FCIEEE** - Mannie Connell reported that FCIEEE has allocated \$1500 to provide free housing for students attending Southeastcon 82 in Destin, Florida. Dave Flinchbaugh should be contacted for names to be contacted by students wishing to take advantage of this opportunity.
19. **FES** - Ben Patz reported that FES may provide one free ticket to the FES awards dinner, for the nominee, from each engineering society, for the Engineer of the Year. Don Mendorf moved, and Russ Theisen seconded the motion that the section purchase a ticket for the spouse of the IEEE nominee. The motion passed.
20. Ben Patz noted that the student discounts, to IEEE functions for which there is a charge, have been retained at a fixed \$ 1.00 for ten years or more, while the undiscounted cost has increased by 100% or more. He recommended that this discount policy be re-evaluated. Mannie Connell moved, and Bill Cram seconded the motion that the student discount be changed to 20%, rounded to the nearest dollar. The motion passed.
21. There being no further business, Ben Patz adjourned the meeting at 7:25 PM. The next meeting will be at 5:30 PM Tuesday, March 2 at the same location.

Ed Ellis

Section Secretary

OUTSTANDING ENGINEERS AND ENGINEERING STUDENTS



Left to right: Ernest Erickson, Mannie Connell, Jim Gay, Russ Mills, Joe Massett, Micky Mindock, Michael Robitaille, Brian Petrasko, Linda Coulter, David Kotick, Diane Pavik



MEETING ANNOUNCEMENT THE POWER ENGINEERING SOCIETY AND THE INDUSTRIAL APPLICATIONS GROUP

DATE: Thursday, March 18, 1982

TIME: 7:30 p.m.

PLACE: Florida Power Corporation
510 S. Park Ave., Winter Park, Fla.

SPEAKER: Paul Lewis, Energy Mgmt. Services

Florida Power Corporation has an aggressive new program to shave off peak demand via remote-controlled load management. The goal of this program is to delete construction of one new power plant in Florida. Details of this new operating system will be disclosed at this meeting.

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VOLUME XVII
Number 4
April 1982



ORLANDO SECTION NOTES

ORLANDO SECTION MEETINGS

APRIL 15	POWER ENGINEERING SOCIETY AND INDUSTRIAL APPLICATIONS GROUP
APRIL 20	COMPUTER SOCIETY
APRIL 21	MICROWAVE THEORY & TECHNIQUES
MAY 4	EXECUTIVE COMMITTEE
MAY 5	SECTION MEETING

DETAILS INSIDE

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS

MODERN POWER CONVERSION MAGNETICS DESIGN

to be conducted by

COLONEL WM. T. McLYMAN

of the
JET PROPULSION LABORATORIES
at the
California Institute of Technology

This intensive three-day short course is intended for electrical and electronic engineers desiring a practical education in the design and development of magnetic components for use in state-of-the-art power processing equipments. Over the period of each course, attendees will cover key design principles at an understandable pace and gain practical insight and experience from in-class exercises into the design aspects of modern-day power conversion magnetic circuit elements.

Colonel McLyman of JPL is one of the best-known experts in the specialized art of magnetics design and the author of two widely used handbooks on this subject. From the general properties of magnetic materials to the optimum design approaches for high frequency power converter transformer and inductive components, the emphasis throughout the course's lectures is on practicality. Each attendee will also receive a copy of the latest work of the instructor, **MAGNETIC CORE SELECTION FOR TRANSFORMERS AND INDUCTORS**, a 750-page design manual to be published in February, 1982 by Marcel Dekker, Inc.

The course has been structured by Colonel McLyman and our association so as to provide attendees with an indepth exposure to all facets of this important and essential design art, and to equip them with easy-to-use design tools for immediate on-the-job application.

WHEN IN 1982

April 20-22

May 19-21

June 2-4

July 7-9

August 18-20

September 15-17

WHERE

Sherman Oaks (Los Angeles), California

Orlando, Florida

Boston, Massachusetts

San Jose, California

Minneapolis, Minnesota

Anaheim (Los Angeles), California

For a free brochure containing complete course and registration information, call our office or fill out the information request below and mail as soon as possible. Early registration is recommended. Special course fee discounts are available for company groups.

☐ I will attend the _____ presentation.
(indicate course date)

Find enclosed \$410 (+ \$40 late fee if registering 14 days before selected date). NOTE — lodging costs are NOT included in the course price.

☐ Send more information about the course and the new magnetics design manual.

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MEETING ANNOUNCEMENTS

SECTION MEETING

SPEAKER: Mr. Don Wiggins, Patent Lawyer

TITLE: An Overview of the Patent System in the U.S.

This will be an informal question and answer presentation which will also include: what is patentable; precautions to be taken to avoid losing rights; the software protection problem; and several interesting patents made in the past.

DATE: May 5, 1982

LOCATION: Gary's Duck Inn, 3974 South Orange Blsm. Trail

SCHEDULE: 6 p.m./7 p.m. dinner / 8 p.m. speaker
Meal - order from the menu

FOR RESERVATION, CALL: Michael Harris, 275-2548 or 2786.

THE POWER ENGINEERING SOCIETY AND THE INDUSTRIAL APPLICATIONS GROUP

DATE: Thursday, April 15, 1982

TIME: 7:30 p.m.

PLACE: Florida Power Corporation
510 S. Park Ave., Winter Park, Fla.

SPEAKER: Paul Lewis, Energy Mgmt. Services

Florida Power Corporation has an aggressive new program to shave off peak demand via remote-controlled load management. The goal of this program is to delete construction of one new power plant in Florida. Details of this new operating system will be disclosed at this meeting.

NOTE: This meeting, originally scheduled for March 18, was rescheduled to April 15 due to lack of adequate notice to members and interest to all members as electric utility customers.

IEEE ORLANDO SECTION

EXECUTIVE COMMITTEE MEETING

2 March 1982

The meeting was called to order by the Section Chairman, Ben Patz, at 5:45 PM at Stromberg-Carlson Corporation in Winter Park. Those attending, including late arrivals were:

Ben Patz
Mannie Connell
Joe Massett
George McClure
Frank Fluet
Russ Theisen
Ed Ellis
Bill Kownacki

Bill Cram
Deen Khandelwal
Don Mendorf
Clark Hay
Gerry White
Mickey Mindock
Al Fowler
Michael Harris

TREASURER'S REPORT

2 MARCH 1982

CASH BALANCE: 2 February 1982

Checking	\$ 228.77	
Dreyfus	8,909.68	
		\$ 9,138.45

INCOME:

Dreyfus	\$ 509.04	
Eng. Banquet	500.00	
Autotestcon Dist.	8,000.00	
		\$9,009.04

EXPENSES:

MTT Meeting	\$ 59.05	
Power Eng.	11.39	
Tickets, Eng. Banq.	23.00	
Section Notes	370.38	
Postal Deposit	60.00	
Computer Society	48.76	
Comm. Society	32.64	
Awards, Eng. Banq.	189.34	
Stamps	8.00	
Banquet Meals	870.69	
Banquet Speaker	100.00	
		\$ 1,773.25

BALANCE:

\$16,374.24

CASH FLOW FEBRUARY 1982

	Checking	Dreyfus
Balance 2/2/82	\$ 228.77	\$ 8,909.68
Income	8,500.00	509.04
Transfer 2/2/82	500.00	-500.00
Expenses	-1,773.25	-
Transfer 2/15/82	-6,000.00	6,000.00
 BALANCE 3/2/82	 \$1,455.52	 \$14,918.72
 TOTAL CASH ON HAND:	 \$ 16,374.24	

3. **COMPUTER SOCIETY** - Clark Hay announced a March 25, 1982, scheduled tour of the computer facilities at the Orlando Naval Training Center. This tour will be co-sponsored by ACM.

ELECTRON DEVICES - Mickey Mindock reported that due to change of affiliation, their February 11 speaker was changed to James Huey of the Advanced Semiconductor Material Division of Spire Corp., speaking on "Plasma Processing and Equipment". The next meeting of the Electron Devices Chapter will be on April 1, at Martin Marietta, on the topic of Fiber Optics. They also plan to have a future meeting at Martin Marietta with Kevin Ford speaking of MM Company Plans in the VLSI area.

MICROWAVE THEORY & TECHNIQUES - Al Fowler reported that their February 25 meeting had to be rescheduled for March 25. The topic will be as previously announced - "Current Receiver Technology for Home Satellite Applications".

COMMUNICATIONS - Don Mendorf announced their next meeting would be on March 17 at Martin Data System on Lake Ellenor Drive, where there will be a tour and discussion of the Martin-Marietta Communications Satellite facilities. Due to short notice, he will prepare inserts for including in the February Section Notes which are expected to be delivered from the publisher prior to March 12.

4. **MEMBERSHIP** - Frank Fluett presented the membership reports shown below:

MEMBERSHIP DEVELOPMENT COMMITTEE REPORT March 1, 1982

The following membership statistics are derived from the "Membership Changes and Additions for Month Ending 12-31-81 and 1-31-82" ("Pink" listings):

CODE	REASON	12/31/81	1/31/82
A	New Election to Membership	13	1
B	Reinstatement to Membership	3	1
D	Address Change, Within Section	12	8
E	Address Change, Moving into Section	7	6
G	Transfer to Student Membership Grade	1	-
I	Address Change, Moved out of Section	9	4
L	Resigned	0	2
M	Deceased	0	1
N	Change in Group Society Membership	21	15

**FELLOW MEMBERS OF IEEE
ORLANDO SECTION
FEBRUARY 1982**

- (LF) George W. Baughman,
The Cloisters Apt 517, S. Interlachen Ave., Winter Park, FL 32789
(F) Earl L. Steele
1101 Massachusetts Ave., St. Cloud, FL 32769
(LF) R. Paxton
430 E. Lake Shore Dr., Clermont, FL 32711
(LF) DAvid S. Rau
1100 S. Orlando Ave., Apt 302, Maitland, FL 32751
(LF) John C. Woods
1447 Cardinal Ct., Winter Park, FL 32789
(LF) William H. Fifer
104 Cascade Cove, Leesburg, FL 32789
(LF) John F. Morrison
8816 Bay Hill Blvd., Orlando, FL 32811
(F) C. R. Marcum
753 Sybilwood Cr., Winter Spgs, FL 32708
(LF) Hugh E. Webber
1502 E. Lakeview Ave., Eustis, FL 32726
(F) G. F. McClure
1730 Shiloh Lane, Winter Park, FL 32789
(LF) W. V. Lovell
Lovell Research Lab, Box 18, Route 2, Sanford, FL 32771
(F) J. G. Pearce
716 Teal Lane, Altamonte, FL 32701
(LF) A. Hamilton Powell
RR 1, Box 938, Leesburg, FL 32748
(LF) Hanns H. Wolff
8624 Caracas Ave., Orlando, FL 32817
(F) R. S. Wiseman
8451 Bay Hill Blvd., Orlando, FL 32811

5. PUBLICATIONS

5a. Bill Kownacki has received a check from Hewlett Packard for advertising. The current advertising charges are \$45 per page for a single insert and \$40 per page for successive inserts in the Section Notes. These rates are inconsistent with current publication and mailing costs. Ed Ellis was directed to review past committee meeting minutes to determine when the rates were last changed.

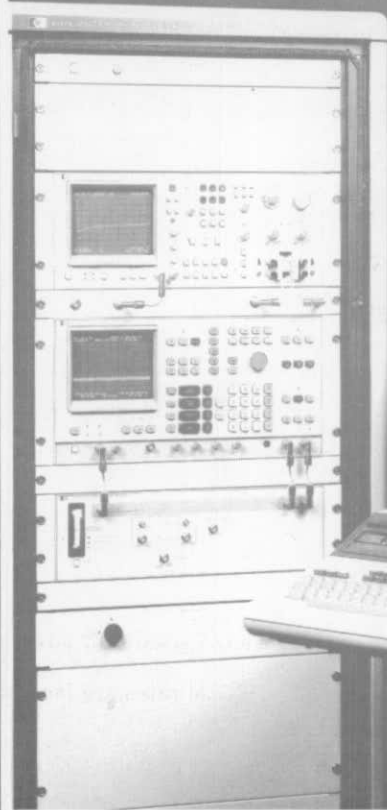
5b. George McClure moved that new advertising rates for the Section Notes be \$100 for single time insertion, \$75 if the ad is used three or more times. Al Fowler seconded the motion; the motion failed; and Bill Kownacki was directed to propose a new rate schedule at our April meeting.

6. AWARDS - Mannie Connell reported that Russ Theisen, Dave Flinchbaugh and Deen Khandelwal have been nominated for election as fellow members of the IEEE.



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7. PAC

7a. Ed Ellis presented an inquiry from the Canaveral Section, as to whether the Orlando section wanted to share expenses of bringing Irwin Feerst to the area, and have Mr. Feerst talk to the Orlando section before or after his April 21 talk to the Canaveral Section. A motion was made that we decline accepting such an arrangement. The motion was approved.

7b. Ed Ellis called attention to the proposed Engineering Code of Ethics published in the latest issue of the IEEE "Institute" distributed to all members. He suggested that the code, as written, appears weak and lacks significant meaning. It was recommended that local members read the proposed code, and that if they have either positive or negative feeling on the topic, that they respond to the request for comments contained in the article presenting the code.

8. **TUTORIAL WEEK EAST** - Russ Theisen reported that 475 people have registered to date. He had expected 1050 by this time, but the registrations are sufficient to make the series worthwhile.

9. **SOUTHCON** - Plans for Southcon, to be held March 23-25 in Orlando, are progressing on schedule, except that Bill Cram has not yet received confirmation on his assignment to the VIP Host Committee.

10. **HISTORIAN** - Russ Theisen requested he be scheduled to receive at least one extra copy of each issue of the Section Notes for the Historical Archives.

11. NEW BUSINESS

11. **SOUTHEASTCON 83** to be held in Orlando in 1983, needs "seed" money to start publicity activity. George McClure moved the section advance \$1,000. Seconded by Al Fowler, the motion passed.

11b. George McClure has been in contact with Don Wiggins, a Patent Attorney and Engineer, regarding possibility of having him speak at a section meeting.

11c. Ben Patz introduced Michael Harris from UCF, who has volunteered to serve as section program chairman. Dr. Harris was given details for follow-up on the proposed meeting on Patents.

11d. It was recommended that Frank Fluet contribute material for each issue of the Section Notes for welcoming new members, congratulating members upon upgrade, or other items related to membership development.

12. The meeting adjourned at 7:00 PM. Subsequent to the meeting it was noted that we had failed to act on modification of the section support of attendance of our nominee for Engineer of the Year, at the annual FES awards dinner. This was item 19 in the minutes of our February 2, 1982 meeting and was further referenced under item 1 in these minutes. It was further noted that the chapters had not yet named a chapter's representative to the Section Board of Directors.

Ed Ellis

Section Secretary

PROPOSED REVISION TO REGION 3 BYLAWS

At its meeting on January 23, 1982, the Region 3 Executive Committee voted to propose the following bylaw revisions to the Regional Committee for approval. In the following description, items with the /// overstrike are to be deleted and items in *italics* are to be added.

Description of proposal number 1.

Revision Article II - Section 7 to add the Long Range Planning Committee and the Public Relations Committee as Standing Committees of the Region. These two committees have been in operation ad-hoc for several years and have demonstrated their value in meeting the needs of the Region. The proposed bylaw change is to make these two Committee Chairmen voting members of the Executive Committee.

Proposal number 1. Revise Article II, Section 7 to read:

Sec. 7 The Standing Committees of the Region shall be the Student Activities, Awards, Membership Development, Professional Activities Operations, Meetings, ~~and Education Committees~~, *Long Range Planning and Public Relations Committees.*

Description of proposal number 2.

Approximately four years ago the Institute changed the deadline dates for nominations for officers to be on the Institute ballot to an earlier date than before. The officer candidates for Region 3 who are on this ballot are the Region 3 Director and the Region 3 Vice Chairman. Prior to the Institute's change of dates, the Region 3 Nominating Committee report was received and acted on at the Regional Committee meeting. Since the Regional Committee regularly meets in April with SoutheastCon, that date was too late to meet the new Institute deadline. For the last two cycles of nominations the Regional Committee has been polled by letter ballot to select the Region 3 nominees. There is concern that this procedure is not open enough to debate, discussion and substitution. While it does not appear practical to have the full Regional Committee participate directly without advancing the nomination process a full year, it does appear possible to have open nomination by having the Regional Executive Committee, which includes the Area and Council Chairmen who represent the Sections, be the forum for receiving and acting on the Nominating Committee report. The following proposal is intended to achieve that result.

Proposal number 2. Revise Region 3 bylaw Article III, Section 4 to read:

Sec. 4 No later than ~~January 1~~ *September 1* of the ~~odd~~ *even* numbered years a nominating committee consisting of at least three of the most recent past Regional Directors, living in the Region and able and willing to serve, will be appointed by the Regional Director. The Nominating Committee shall be charged with proposing the names of either one or two candidates for Regional Director and either two or three candidates for Regional Vice Chairman. All Section Chairmen shall be advised of this appointment and encouraged to submit suggestions for nominees to the designated chairman of the nominating committee. The committee shall consider all suggestions and report its recommended nominees to the Regional Executive Committee ~~for approval.~~ *Additional nominations may be made from the floor by the Regional Executive Committee provided the nominees have given permission for such nomination.* The Regional Committee, which has the final responsibility for nominating candidates for the ballot

presented to all Institute voting members in the Region, will nominate from the slates presented by the ~~Nominating~~ Executive Committee in accordance with IEEE Bylaws requirements.

When a single nominee is submitted for Regional Director, this nominee shall be the incumbent Regional Vice Chairman who was elected to that office in a prior competitive election.

COMPUTER SOCIETY

DATE: April 20, 1982

TIME: Dinner 6:00 p.m.
Talk 7:30 p.m.

PLACE: Dinner, Bahama Joes, Sanford
Talk, Stromberg-Carlson Co.
Engineering Development Center
Highway 17-92, Approx. 1 mi. north of SR 434
(use rear entrance)

SPEAKER: Ed Miller
Software Research Associates
Palo Alto, Calif.

TOPIC: Software Quality Assurance

Reservations for dinner should be made by calling Clark Hay at 339-1600.

The COMPUTER SOCIETY is also planning a meeting for May 18 on the topic of "Confident Software Cost Estimation".

MICROWAVE THEORY & TECHNIQUES

TIME: April 21, 1981

Refreshments 5:15 p.m. (Courtesy Scientific Atlanta)
Talk - 6:00 p.m.

LOCATION: Court of Flags

SPEAKER: Dr. Doren Hess
Staff Engineer, Scientific-Atlanta

TOPIC: Compact Range & Radar Cross-Section Measurements

FOR MORE DETAILS, CONTACT AL FOWLER, 678-2141.

The speaker will describe the physical principles that govern the operation of the range and the considerations one must make in confirming an RCS measurement facility around it. Examples of RCS measurements and potential uses will be described.

Dr. Hess received his BS from Duke University in 1965 and PhD. from the University of North Carolina in 1973.

**IEEE ORLANDO EXECUTIVE COMMITTEE
EXECUTIVE BOARD**

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Chairman	Benjamin W. Patz	275-2816	855-3685
Vice Chairman	Mannie Connell	351-2710	273-8588
Secretary	T. E. (Ed) Ellis	339-1600	834-3319
Treasurer	Joe Massett	352-3858	834-3448

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Education	Fred O. Simons	275-2786	678-1796
Membership Develop.	Frank Fluet	843-7030	339-8905

SPECIAL COMMITTEES

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Member at Large	William C. Cram		647-4123

SOCIETY CHAPTER OFFICERS

AES	Chmn.	Dave Finchbaugh	422-2662	859-4855
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	V. Chmn.	George Taack, Jr.	339-1600	321-0319
	Secy.	Bill Strickland	351-9960	
	Mbrshp.	Walt Wolters	351-9901	
Computer	Chmn.	Gerry White	646-4491	678-3621
	Pgm. V. Chmn.	Clark M. Hay	339-1600	677-3114
	Mbr. V. Chmn.	William Joseph	352-4126	299-7399
	Secy.	Stephen Moulton	352-2236	830-9034
Electron Dev.	Chmn.	Deen Khandelwal (organizer)	352-2583	277-5959
	Chmn.	Ralph M. Mindock	352-2776	862-7764
	V. Chmn.	Jim Crouch	352-3966	857-3788
AP/MTT	Chmn.	Al Fowler	678-2141	365-5772
	V. Chmn.	Carl F. Schunemann	352-4366	647-4992
	Secy.	Larry W. Pack	352-4560	671-4047
PE IA	Chmn.	Geoffrey E. Dick	352-2796	678-0979
	V. Chmn.	Joseph R. Miller	646-8233	644-7049
	Secy.	Roger D. Bowman	646-8222	275-7208
Student Br.	Chmn.	Michael Robitaille	275-2786	671-6088
	V. Chmn.	David Kotick		678-6710
	Recordg. Secy.	Diane Pavik		282-1941
	Corresp. Secy.	Karen Riley		
	Treas.	Jon Klages		275-0023
Stu. Cmptr.	Chmn.	Tom Toor	275-2786	282-6359
	V. Chmn.	Art Weeks	275-2786	677-6472
	Secy. Treas.	Jon Klages		275-0023

The Executive Committee meets the first Tuesday of each month at Stromberg-Carlson Training facility at 5:30 p.m. All IEEE members are welcome to attend.

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VOLUME XVII
NUMBER 5
MAY 1982



ORLANDO SECTION NOTES

NOMINATIONS FOR 1982—83

Chairman — Mannie Connell

Vice Chairman — Ed Ellis

Secretary — Frank Fluet

Treasurer — Don Mendorf

OFFICERS INSTALLATION BANQUET

May 22, 1982

Imperial House, Winter Park

Roast Beef Dinner, \$11.50

Speaker: Mr. Bill Chevat

Topic: Civic Center

Tickets from Section Officers

**PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS**

EXECUTIVE COMMITTEE MEETING

6 April, 1982

The meeting was called to order by Ed Ellis at 5:37 pm. It was announced that the section Chairman, Ben Patz, would not be able to arrive until around 6:15 pm. Committee members present, including late arrivals, were:

Ben Patz
Mannie Connell
Ed Ellis
George McClure
Bill Kownacki
Bill Cram

Dave Flinchbaugh
Don Mendorf
Walt Wolters
Gerry White
Dick Zanowick
Frank Fluet

1. Chapter reports were received as follows:

1A. AES - Dave Flinchbaugh - no report.

1B. **Communication** - Don Mendorf introduced Walt Wolters (C. F. Wolters), Communications Chapter Membership Chairman. The last meeting, on March 17, at Martin Data Center, had poor attendance due to inadequate publicity. A suggestion was made that the same meeting be repeated later as a joint meeting between two technical group chapters. Plans for the next Communications Chapter meeting in May, were not sufficiently advanced to announce.

1C. **Computer** - Gerry White - no report.

1D. **Electron Devices** - Dick Zanowick for Mickey Mindock - a written report was submitted as follows:

A meeting was held on April 1, 1982. Dr. Ronald L. Phillips from the University of Central Florida gave an excellent overview of Fiber Optic Sensors and integrated optical components. Twenty-two (22) people attended the meeting.

The Electron Devices Society will hold its first dinner meeting on May 12, 1982, at the Hilton Inn. This meeting will feature Mr. Michael Ohanian, Vice President of Operations of Martin Marietta, and Mr. Kevin Ford, Manager of Martin Marietta's VHSIC activities. Mr. Ohanian will give an overview of Martin Marietta's business and the company's need for expansion. Mr. Ford will discuss Martin's planned expansion into the VHSIC/VLSI technology. All IEEE members, spouses, students and other interested individuals are invited. Tickets for the meal will be \$10 and will be available from Mickey Mindock (352-2776) or Barbara Schramm (352-4036). Tickets need to be purchased by May 5, 1982, to assure reservations. For those interested I (Mickey Mindock) have copies of the minutes of the Administrative Committee of the Electron Devices Society for February 1982 and December 1981. These minutes provide insight into the activities of the society at the national level. Topics discussed include details of publications offered, responsibility for the emerging Fiber Optics technology, budgets, future conferences, and award activities.

1E. **PE and IA** - No representative present.

1F. **AP/MTT** - No representative present.

2. Standing Committee reports were presented as follows:

2A. **Membership** - Frank Fluet presented a list of new members in the Orlando Section, with a word of welcome he wishes to have made part of the section notes. Also, he presented a report on membership changes, as listed below. It was noted that March is the month in which all members in arrears on dues are first listed, and that 158 members in arrears is near the number at this time last year, despite increased total section membership.

The following membership statistics are derived from the "Membership Changes and Additions for Month Ending 2/28/82" ("Pink" Listings):

Code	Reason	Count
A	New Election to Membership	4
D	Address Change, within Section	7
E	Address Change, Moving into Section	6
G	Transfer to Student Membership Grade	1
H	Transfer in Membership Grade	1
I	Address Change, Moved out of Section	9
K	In Arrears	158
L	Resigned	3
N	Change in Group or Society	21

Members in arrears (Code K) are being sent letters encouraging them to reinstate their membership. Letters of welcome are being sent to new members in the Section (Codes A and E). In addition a "Welcome to New Members" column will be added to the Section Notes.

2B. **Membership** - Bill Cram recommended that Frank Fluet ascertain whether certificates are presently issued upon elevation to senior membership and that the section present certificates if IEEE National does not do so.

2C. **PAC** - Ed Ellis - no report.

2C. **Program** - Michael Harris announced plans for the May 5 meeting to be held at Gary's Duck Inn, with Mr. Don Wiggins, a Patent Lawyer, presenting an overview of the Patent System in the U.S.

2E. **Awards** - Mannie Connell announced that the section nominations for Fellow Membership for three members were almost ready for submission. These nominations are due at IEEE Headquarters by April 30.

3. The minutes of the last meeting were reviewed and approved on motion by Gerry White, seconded by Don Mendorf.

4. Due to absence of Joe Massett, no treasurer's report was presented.

5. **Nominations** - George McClure presented the Nominations Committee report. Their nominees for 1982-83 are as follows:

Chairman - Mannie Connell

Vice Chairman - Ed Ellis

Secretary - Frank Fluet

Treasurer - Don Mendorf

The section by-laws as related to nominations were reviewed and it was noted that we are behind the prescribed schedule. On motion by Bill Cram, seconded by Walt Wolters, it was directed that a sheet be inserted in the April Section Notes now ready for distribution, listing the nominees of the Nomina-

tion Committee and outlining procedures for nomination from the membership. Don Mendorf moved that the deadline for receipt of petition nominees was set as April 3, 1982, with appointment of an Elections Committee set for April 4, 1982. Seconded by George McClure, the motion passed.

6. **Advertising** - Bill Kownacki presented a proposed new rate schedule for advertisements in the Section Notes. These rates are based upon charges for a full page ad covering the cost of publication and distribution for that page plus one page of text or announcements. Ed Ellis reported that the current rates were found to have been in effect at least as early as 1977. George McClure suggested that a rate differential be included for repeated insertions on ads less than one full page, to conform with the proposed differential for full page ads. Gerry White moved that the new rates schedule be approved with an effective date of September 1, 1982. Bill Cram seconded the motion and the motion carried. The new rate schedule is as follows:

ADVERTISING RATE: Black and white, per insertion

Size:	Inches:	1-2 Insertions	3-10 Insertions, same copy
One page	5 x 8	\$65.00	\$60.00
3/4 page	5 x 6	55.00	50.00
1/2 page	5 x 4	40.00	35.00
1/4 page	5 x 2	25.00	20.00

Photograph half-tones: \$10.00

7. **Conferences** - Dave Flinchbaugh reported that the unaudited attendance report for Southcon was 12,263. Southeastcon, still in progress, had an attendance of approximately 500 students and 260 full-fee attendees. During Southeastcon there have been meetings of the Region 3 Executive Committee and the full Region 3 Committee, as well as a section officers training workshop.

8. **Tutorial Week East** - The attendance at Tutorial Week East, in March, was less than anticipated. The total attendance was 600, with 40 to 50 in each session.

9. Old Business

9A. In February a motion was passed authorizing the section to purchase one ticket each year for attendance of the spouse of the section Engineer of the Year at the annual FES Engineer's Week Dinner. It has been erroneously reported that the section Engineer of the Year received a ticket from FES as our nominee for their Engineer of the Year Award. On motion by Dave Flinchbaugh, seconded by Frank Fluet, the section was authorized to buy two tickets each year, for the FES Engineer's Week dinner, with this year's section Engineer of the Year to be reimbursed for expenses he paid.

9B. It was announced that the officers of the technical group chapters had elected Don Mendorf as the Chapter's representative to the section Executive Committee.

10. New Business

10A. Ed Ellis reported receipt of a letter in February and misplaced until late March, requesting our financial part of the FES Engineer's Week activities. The assessment, based upon section membership, is \$35. We have contributed the assessed amount in previous years. A motion by George McClure that we pay the assessed amount, was seconded by Frank Fluet, and passed.

10B. Dave Flinchbaugh recommended that certificates of appreciation should be given for the work performed by some of those that have been active in maintaining this as an effective and growing section. After much discussion on mechanics of such recognition, Don Mendorf moved the section chairman be authorized to expend section funds for such awards of recognition as he may wish to present. Seconded by Bill Cram, the motion passed.

10C. Ben Patz polled those present for suggestions in planning for the annual June banquet. Using the results of this poll, he will make arrangements for this activity the second or third weekend in June.

11. The meeting adjourned at 7:10 PM. The next meeting will be held at 5:30 PM Tuesday, May 4 at the same location.

Ed Ellis, Section Secretary

**IEEE
ELECTRON DEVICES SOCIETY
FIRST DINNER MEETING
May 12, 1982
AT HILTON INN**

INTERNATIONAL DRIVE, ORLANDO, FLORIDA

SPEAKERS:

Mr. Michael Ohanian, Vice President of Operations, Martin Marietta will provide an interview of Martin Marietta's business and its impact on the community.

Mr. Kevin Ford, Manager of VHSIC Laboratory, Martin Marietta will discuss Martin Marietta's planned VHSIC/VLSI capability.

Cocktails (cash bar) 5:30 p.m.

Dinner 6:30 p.m.

Program 7:30 p.m.

Meal Tickets \$10.00

(Must be purchased by May 5, 1982)

For more information contact Barbara Schramm, 352-4036.

Bring your spouse.

THE POWER ENGINEERING SOCIETY AND THE INDUSTRIAL APPLICATIONS GROUP

DATE: THURSDAY MAY 20, 1982

TIME: 7:30 P.M.

PLACE: Florida Power Corporation
510 S. Park Ave., Winter Park

SPEAKER: LARRY SLONE, P.E.

SUBJECT: The First Solar Pond in America.

Larry Sloan is the Energy Coordinator of Tilden Lobnitz and Cooper Engineering, and is a recognized authority on solar ponds. Working in conjunction with Ormat Turbines Ltd of Israel and California's Jet Propulsion Lab, TLC is building the first operating solar pond in Florida and this hemisphere to generate power.

WELCOME TO NEW MEMBERS

The Orlando Section welcomes the following IEEE MEMBERS:

Recently elected to membership:

John A. McElver, 487 Marla Ave., Longwood, FL 32750
Donald M. Powers, 450 Beloit Ave., Winter Park, FL 32789
Wipawadee Songprasit, 1348 Sterling Oak Dr., Casselberry, FL 32707
Alan G. Williams, 8720 Harbor View Dr., Orlando, FL 32817

Moving into the Orlando Section:

Sidney Cave, 4753-G Walden Cir., Orlando, FL 32805
H. I. Hellman, 5614 Minaret Ct., Orlando, FL 32809
Richard E. Little, P. O. Box 13295A, Orlando, FL 32859
Richard D. Monn, 614 N. Semoran Blvd., Apt. 7, Winter Park, FL 32792
Timothy T. Nash, 5625 Birr Ct., Orlando, FL 32809
Colin L. Robinson, Perkin-Elmer, 5749 Major Blvd., Suite 355, Orlando, FL 32805

IEEE ORLANDO EXECUTIVE COMMITTEE EXECUTIVE BOARD

Chairman	Benjamin W. Patz	Business	Home
Vice Chairman	Mannie Connell	275-1816	855-3685
Secretary	T. E. (Ed) Ellis	351-2710	273-8588
Treasurer	Joe Massett	339-1600	834-3319
		352-3858	834-3448

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Sr. Past Chairman	Ernest E. Erickson	275-2310	365-5560
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Publications	George Taack	339-1600	321-0319
Awards	Mannie Connell	351-1210	273-8588
FES Liaison	Richard C. Harden	855-0881	855-5775
Prof. Act. Comm.	John Gilbert		859-5492
Student Act. Comm.	Richard Miller	275-2786	
Education	Fred O. Simons	275-2786	678-1796
Membership Develop.	Frank Fluet	843-7030	339-8905

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Member at Large	William C. Cram		647-4123

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	Mbrshp.	Walt Wolters	351-9901	
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	Pgm. V. Chmn.	Clark M. Hay	339-1600	677-3114
	Mbr. V. Chmn.	William Joseph	352-4126	299-7399
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	Chmn.	Ralph M. Mindock	352-2776	862-7764
	V. Chmn.	Jim Crouch	352-3966	857-3788
AP/MTT	Chmn.	Al Fowler	678-2141	365-5772
	V. Chmn.	Carl F. Schunemann	352-4366	647-4992
	Secy.	Larry W. Pack	352-4560	671-4047
PE IA	Chmn.	Geoffrey E. Dick	352-2796	678-0979
	V. Chmn.	Joseph R. Miller	646-8233	644-7049
	Secy.	Roger D. Bowman	646-8222	275-7208
Student Br.	Chmn.	Michael Robitaille	275-2786	671-6088
	V. Chmn.	David Kotick		678-6710
	Recordg. Secy.	Diane Pavik		282-1941
	Corresp. Secy.	Karen Riley		
	Treas.	Jon Klages		275-0023
Stu. Cmptr.	Chmn.	Tom Toor	275-2786	282-6359
	V. Chmn.	Art Weeks	275-2786	677-6472
	Secy. Treas.	Jon Klages		275-0023

The Executive Committee meets the first Tuesday of each month at Stromberg-Carlson Training facility, 1044 N. Orlando Ave., Winter Park, FL (Galloway St. side), at 5:30 p.m. All IEEE members are welcome to attend.

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VOLUME XVII
NUMBER 6
JUNE 1982



ORLANDO SECTION NOTES

IEEE COMPUTER SOCIETY MEETING NOTICE

Thursday, June 10, 1982

SOFTWARE QUALITY ASSURANCE

We have a unique opportunity in the Central Florida area to get some of the same information that was presented at Tutorial Week - Europe '82 in Hannover Germany. Doctor Edward F. Miller of Software Research Associates will give us the latest thinking on the important subject of Software Quality Assurance.

Software Quality Assurance is a collection of disciplines and techniques that seek to reduce the probability of a software defect appearing in a software system to a very low level. Methods used include: code inspection, static analysis with automated tools, hierarchical test planning, systematic exercise of programs, symbolic interpretation, and program proof-of-correctness.

Edward Miller received the BS degree in electrical engineering from Iowa State University in 1962, an MS in applied mathematics from the University of Colorado in 1964, and a PhD in electrical engineering from the University of Maryland in 1968. After various other experience, he joined Software Research Associates in 1977 as Technical Director. He is Associate Technical Editor of COMPUTER magazine and is a member of several honorary societies. His interests include software engineering tools, software quality assurance technology, software maintenance technology, and computer graphics.

The meeting will start with dinner at 6 PM at Bahama Joe's on US 17-92 in Sanford and will continue at 7:30 PM to 9 PM at the Stromberg-Carlson Engineering Development Center on US 17-92 in Longwood. Entry will be through the night entrance in the East (back) parking lot.

Call Clark Hay 339-1600 or Jerry White 646-4491 for further information.

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS

EXECUTIVE COMMITTEE MEETING

4 MAY 1982

The meeting was called to order by the Section Chairman, Ben Patz, at 5:35 P.M. Committee members present, including late arrivals, were:

Ben Patz	Bill Cram
Mannie Connell	John Gilbert
Ed Ellis	Gerry White
Joe Massett	Clark Hay
Michael Harris	Dick Zanowick
Frank Fluet	Geof Dick
Russ Theisen	Al Fowler

1. **Treasurers Report** - The Treasurer's report for April was reviewed. On motion by Frank Fluet, seconded by Bill Cram, the report was approved. The treasurer's report for May was then reviewed. On motion by Gerry White, seconded by Geof Dick, the report was approved. These two reports were as shown below.

TREASURER REPORT

6 April 1982

CASH BALANCE:	2 MARCH 1982	
Checking	\$ 1,455.52	
Dreyfus	14,918.72	\$ 16,374.24
INCOME:		
Engineering Banquet		94.00
		<u>\$ 16,468.24</u>
EXPENSES:		
Eng. Banquet Awards	\$ 32.48	
Membership Development	11.98	
Eng. Banquet Pictures	<u>33.65</u>	78.11
BALANCE:		\$ 16,390.13
Checking		\$ 1,471.41
Dreyfus		<u>\$ 14,918.72</u>

SUPPLEMENTAL REPORT ON AWARDS BANQUET

INCOME:

Ticket Sales	\$ 630.00	
--------------	-----------	--

EXPENSES:

Ticket Printing		\$ 23.00
Awards		221.82
Restaurant Costs		870.69
Speaker		100.00
Pictures		33.65
Plaques		32.48

TOTAL EXPENSES		\$1,281.64
----------------	--	------------

NET COST TO SECTION	\$ 651.64	
	\$1,281.64	\$1,281.64

TREASURER REPORT

3 May 1982

CASH BALANCE	6 April 1982	
Checking	\$ 1,471.41	
Dreyfus	14,918.72	\$16,390.13

INCOME:

Dreyfus Interest	\$ 206.59	
Autotestcon	2,022.16	
H.P. Advertising	120.00	
Dreyfus Funds Dep.	3,000.00	
Banquet Receipts	36.00	\$ 5,384.75

EXPENSES:

Membership Dev.	\$ 40.91	
March Section Notes	319.90	
April Section Notes	319.07	
Section Notes Mail Dep.	200.00	
Southeastcon Advance	1,500.00	
MTT/AP Meeting-March	116.00	
MTT/AP Meeting-April	22.00	
Dreyfus Withdrawal	3,000.00	\$ 5,518.87

BALANCE:		\$16,256.01
----------	--	-------------

Dreyfus		\$12,125.31
Checking		\$ 4,130.70

2. The minutes of the April meeting were reviewed. It was noted that item 2D in the minutes was incorrectly numbered. On motion by John Gilbert, seconded by Bill Cram, the minutes were approved with the one correction.

3. Chapter Reports

3A. **Computer** - Gerry White announced that the meeting on Quality Assurance, originally scheduled for April, was rescheduled for June 10. The next meeting will be on Software Cost Estimation, on May 18.

3B. **Power Engineering and Industrial Applications** - Geof Dick reported their April meeting on Load Management was very good. Their next meeting will be on May 20, on the subject of Solar Ponds. Geof has been chairman of the PE & IA chapter for two years now and is anxious to recruit new chapter officers. So far, he has been unsuccessful. This chapter has had consistently good meetings, but is in danger of failing if new officers cannot be recruited.

3C. **Electron Devices** - Dick Zanowick reported that there has been good response so far in reservations for their May 12 meeting. Considering the topic and speakers - Martin Marietta VLSI and VHSIC programs - he feels there should be even more engineers interested in attending, but that too many may have overlooked the meeting details.

3D. **Communications** - Ed Ellis announced for Don Mendorf, that the chapter nominees for 1982-83 officers were: Chairman, George Taack; Vice Chairman, Bill Strickland; Secretary, Walt Wolters. The chapter has not yet scheduled their next meeting.

3E. **Microwave Theory and Techniques** - Al Fowler reported on a very good meeting on April 21, with 16 attending a presentation by a speaker from Scientific Atlanta. Their next meeting has not been scheduled yet.

4. **Membership Development** - Frank Fluet presented the following report on membership changes:

The following membership statistics are derived from the "Membership Changes and Additions for Month Ending 03/31/82":

Code	Reason	Count
A	New Election to Membership	7
B	Reinstatement to Membership	1
C	Arrears Paid	43
D	Address Change Within Section	11
E	Moving Into Section	3
G	New Student Member	1
H	Transfer in Member Grade	1
I	Moving Out of Section	6
N	Change in Group or Society	13

As requested in last month's meeting, I contacted Roseanna Shultz's office at IEEE Headquarters concerning the Senior Member certificates. I was told they are still provided at no charge, but to allow two months for delivery.

5. **Professional Activities Committee for Engineers** - John Gilbert reported the change in name of PAC to PACE, made due to other common usage of the acronym PAC, outside IEEE. John also submitted a report on his trip to committee meetings held during Southeastcon 82, April 4-6. Included in the items discussed in Region 3 meetings and the PACE meeting, were the following:

5A. The proposed region by-laws changes published in the May 1982 Orlando Section Notes, were approved in concept. These changes, arranged to permit better section input to regional officer selection, will now be submitted to section representatives for a vote.

5B. John would like to see a section workshop on preparation for a PE examination. He was authorized to investigate possibilities further.

5C. Region III, with 43 sections, is one of the fastest growing regions of IEEE.

5D. IEEE hopes to increase membership from its present 221,000 to 225,000 by the IEEE Centennial year, 1984.

5E. Reed Thompson, Regional Director, outlined ten goals for each section, including growth, professional development, public relations, student activity support and recognition for conspicuous service.

5F. The Committee on Professional Activities for Women (COPAFW) has established a goal of COPAFW representation in each IEEE section.

6. **Programs** - Michael Harris reported rather low response so far on the scheduled May 5 meeting with Mr. Don Wiggins speaking on Patents. The next section activity will be the annual installation banquet May 22. Tickets have not arrived from the printers, but will be distributed upon receipt.

7. **Old Business** - none

8. **New Business**

8A. Michael Harris suggested there may be membership interest in purchasing coffee mugs with the IEEE logo. There was sufficient interest from those present. On motion by Al Fowler, seconded by Joe Massett, Michael was authorized to place an order for fifty cups.

8B. Russ Theisen announced that the call for papers had been issued for Southeastcon '83 to be held in Orlando. Tutorial Week East had a total registration of 602. Many attendees commented that the material was too basic, but some commented that it was too high level. The national software conference, scheduled for the Orlando Hyatt House, has been cancelled due to late loss of responsible chair personnel.

8C. Russ Theisen reported that, as of December 31, 1981, the Orlando Section had 15 fellow members, 112 senior members, 622 members, 54 affiliates, and 71 student members, for a total of 874.

9. The meeting adjourned at 7:00 PM. The next meeting will be June 1, 1982, at the same location.

WELCOME TO NEW MEMBERS

The Orlando Section welcomes the following IEEE members:

Recently elected to membership:

Clarence J. Chappell, 1271 Old Mill Rd., Orlando, FL 32806
Martin E. Galassini, 1809 Gumwood Ct., Orlando, FL 32808
Gary G. Graham, 135 Palmyra Ave., Orlando, FL 32807
Larry P. Hull, P.O. Box 249, Longwood, FL 32750
William A. Mandeville, 920 Dyson Dr., Winter Springs, FL 32708
Dixon K. Renee, Rt. 10, Box 777AI, Orlando, FL 32820
Alan J. Zegman, 8829 Aspen Ave., Orlando, FL 32817

Moving into the Orlando Section:

John P. Allen, Jr., Honeywell 1000 Woodcock Rd., Orlando, FL 32803
John J. Roche, 7227 Laurel Hill Rd., Orlando, FL 32808
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IEEE PRESIDENT TO SPEAK AT ORLANDO SECTION MEETING

Dr. Robert Larson has accepted an invitation to speak before the Orlando Section. The date is set for December 9, 1982. His topic - "IEEE President Looks At 1982 In Review". Watch for more details in later issues of the Section Notes. Dr. Larson will be here December 8-10 for the Conference on Decision and Control.

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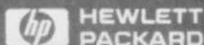
The Executive Committee meets the first Tuesday of each month at Stromberg-Carlson Training facility, 1044 N. Orlando Ave., Winter Park, FL (Galloway St. side), at 5:30 p.m. All IEEE members are welcome to attend.

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