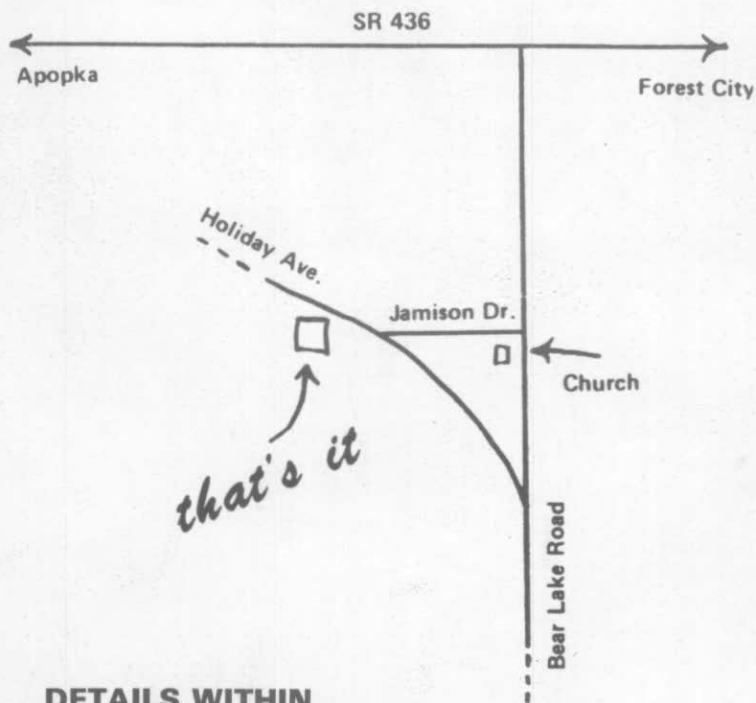




ORLANDO SECTION NOTES

VOLUME XVIII
NUMBER 2
OCTOBER 1982

ANNUAL BAR-B-Q



DETAILS WITHIN...

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS

CHAIRMAN'S CORNER

The recent dues increase was quite a surprise, since IEEE finished last year in the black. Just last year we sent a letter of protest which was presented to the Board of Directors on last years dues increase. I think something is wrong when the Computer Society can run on \$10/member and IEEE requires so much. Out of 833 members in the Orlando Section we get a rebate from IEEE of only about \$2000. The dues increase alone is about \$2500. I feel too much money is spent by Headquarters and not enough returned to our local section where member's programs are accomplished. If anyone else is concerned about the dues increases please contact me and we will try to get something done this year. Otherwise just like everything else your dues will probably keep escalating ad infinitum.

Mannie Connell



SECTION NOTES

The ORLANDO SECTION NOTES is distributed to IEEE members in the Central Florida area. Items of particular interest include meeting announcements, technical information, meeting reports, activities of members, etc. Your contribution to the section notes should be mailed to:

Dr. G. C. White
701 Golfside Villas
Winter Park, FL 32792

The normal deadline is the 12th of month preceeding publication date.

SPECIAL FOR IEEE MEMBERS

Be proud of your IEEE membership and let others know you belong. John Gilbert (859-4592-home or 365-5607-office) has some nice ceramic cups. Each has the IEEE logo and says "I'm an IEEE member". The cost is only \$3.00 but quantity is limited. Call John to reserve yours before they are all sold.

AP/MTT MEETING NOTICE

The October 28th meeting will be held at Al Fowler's home at 901 Arabian Ave., Winter Springs. This will be a get together meeting with spouses, too. There will be a potluck supper at 6 P.M. Bring a covered dish or a salad and BYOB. Set-ups will be provided. After dinner we'll have a short meeting to elect officers and toss around some ideas for the year's program. Al Fowler will give a brief talk on some of his experiences in the antenna business that hopefully will be of interest to spouses as well as members. Please call Mrs. Fowler at 365-5772 to advise if you are coming. We'd like to have an idea how many will be there. To get to the Fowler's home, starting on Rte 436 proceed East on Red Bug Rd. (3 miles) to Tusawilla Rd.; Left on Tusawilla (1 Mile) to Dyson Rd. (1st entrance to Tusawilla) Right on Dyson (1 mile) to Arabian. Fowler's on corner of Arabian and Dyson.

November 18 is a joint meeting with Electron Devices Society. The speaker is Tom Shoquist, Director of Engineering for SAWTEC, 2541 Shader Rd., Orlando. Tom is a member of MTT and will devote part of his talk to a general discussion of Surface Acoustical Wave technology and the other portion to a detailed technical subject. The meeting will be held at 5:15 PM and the tentative location is at Hewlett Packard on Lake Eleanor Drive.

We have requested the distinguished lecturer(s) of the Antenna and Propagation Society and hope to obtain one or more speakers this year. For further information contact Carl Schunemann, at 352-4366.

FAMILY PICNIC — BARBECUE

SATURDAY NOVEMBER 6, 1982 4:00 P.M.

Florida Power Bear Lake Recreation Facility - Map is on the cover

We are changing our annual barbecue toward a picnic/potluck format to encourage wider participation. Cost \$1.50 for a student, \$2.00 for an individual non-student, and \$4.00 for a family. This covers facility rent, entertainment, paper plates, paper napkins, plastic utensils, condiments, beverage (beer and soft drinks), and barbecue fire. Additional beverage can be purchased at the snack bar. 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, hot dogs, or whatever. Get together with friends and co-workers to coordinate menus or just bring your specialty such as coleslaw, baked beans, banana bread, or whatever and be surprised at what we put together for a fun feast. Tickets will be available from members of the Executive Committee from October 15 to November 1. If you wish a steak with your ticket be sure to order the steak by 1 November.

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

MEMBERSHIP DEVELOPMENT COMMITTEE REPORT FOR AUGUST, 1982

Letters of "Welcome" were sent to 8 new members and 9 moving into the section in August.

Orlando section membership as of July 30, 1982 stands at 833. Our goal for membership as of December 1982 is 909. This represents a need for at least 76 new members. To meet this challenge, we are planning for the following specific steps.

1) "Values of Membership" slide/tape presentation is being procured for use by various chapters in the section during March and April. Chapter Chairmen are requested to plan on using it during that period and please coordinate with me, with respect to specific dates.

2) The idea of holding a "Student Professional Awareness Conference" is being addressed.

3) The Orlando section voted to give each new regular member a free IEEE coffee cup to join up.

The student membership development activities have been briefly discussed with Professor Miller and he will report the details.

In talking to prospective members, it should be mentioned that by joining IEEE in September, they get 15 months service for 12 months dues and that they can enroll at current low rates.

D. D. Khandelwal

Membership Development Chairman

IEEE ORLANDO SECTION TREASURER REPORT

CASH BALANCE:	8 August 1982	
Checking	\$ 510.15	
Dreyfus	15625.31	
		16135.46
INCOME		
Dreyfus Interest	478.68	
		478.68
EXPENSES		
Seminole House Printer	237.83	
		237.83
BALANCE		
Checking		272.32
Dreyfus Fund		16103.99

MEMBERSHIP

Total Membership as of July 30, 1982:	833
Goal as of December 1982:	909
Changes and Additions for month ending 7-30-82	
New election to membership	8
Reinstatement to membership	-
Arrears paid	4
Address change within section	6
Moving into section	9
Transfer to member grade	3
Moving out of section	11

SOUTHEASTCON '83

"TECHNOLOGY CHALLENGES IN THE NEW SOUTH"

IEEE REGION 3



THE **I**NSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

CONFERENCE and EXHIBIT
ORLANDO, FLORIDA
APRIL 11 — 14, 1983

CALL FOR PAPERS

SOUTHEASTCON is the annual IEEE Region 3 technical conference for the purpose of presenting technical and professional papers and for student prize paper competition. Authors are invited to submit papers on new developments in the theory, concepts, techniques, and applications of Electrical and Electronic Engineering.

Papers and attendance from areas outside Region 3 are encouraged. Original papers, not previously published or presented, are solicited in such areas as:

AEROSPACE SYSTEMS
BIOENGINEERING
DESIGN AUTOMATION
CONTROL SYSTEMS

ANTENNAS
COMPUTERS
DIGITAL SYSTEMS
ELECTROMAGNETIC FIELDS

AUDIO SYSTEMS
COMMUNICATIONS
EDUCATION
ENERGY SYSTEMS

ENVIRONMENTAL
INSTRUMENTATION
MANAGEMENT
MILLIMETER WAVE
PATTERN RECOGNITION
RADAR SYSTEMS
SOFTWARE
EARTH RESOURCES

LARGE-SCALE SYSTEMS
MICROELECTRONICS
MODELLING, SIMULATION
POWER SIGNALS
SIGNAL PROCESSING
TEST TECHNOLOGY
ARRAY PROCESSING
APPLICATIONS

INFORMATION SYSTEMS
LASER APPLICATIONS
MICROPROCESSORS
NETWORK THEORY
PROFESSIONAL ACTIVITIES
SYSTEM THEORY
ROBOTICS
PROGRAMMING LANGUAGES
SOCIAL & ECONOMIC
IMPLICATIONS

AUTHOR'S SCHEDULE

Full papers: Abstract (50 words) and Summary (200-500 words), 4 copies by Oct. 1, '82
Short papers: Abstract (100 words), 4 copies Oct. 5, '82
Notification of acceptance and Mailing of Author's kit Nov. 15, '82
Final Manuscripts Due Dec. 31, '82

Both full papers and short papers will be published in the Proceedings.
(Note: Student papers are encouraged. See your IEEE Student Branch Counselor.)

For Special Sessions and Panel Discussions: Proposals should be sent by October 1, 1982.

Please mail abstracts and proposals to:

For further information, contact:

Dr. Bruce Mathews
Technical Programs Chairman
University of Central Florida
College of Engineering
P.O. Box 25000
Orlando, FL 32816
(305) 275-2156

Russell E. Theisen
SOUTHEASTCON 83 Chairman
Martin Marietta Aerospace
P.O. Box 5837 MP-75
2667 Fitzhugh Road
Winter Park, FL 32792
(305) 352-3877

George F. McClure
Exhibits Chairman
Martin Marietta Aerospace
P.O. Box 5837 MP-362
1730 Shilo Lane
Winter Park, Florida 32789

1982-83 AWARDS ACTIVITIES

31 December 1982

IEEE Region 3 Outstanding Engineer 1983

31 December 1982

IEEE Region 3 Outstanding Service 1983

31 January 1983

Florida Engineering Society (FES) Engineer-of-the-Year nomination

15 January 1983

IEEE Orlando Section

Engineer-of-the-Year

Service Award

Outstanding Electrical Engineering Graduate Student - UCF

Outstanding Electrical Engineering Senior - UCF

Chapter Chairman of the Year

Any ideas for new awards should be sent to Joe Massett. These will be discussed at the next meeting.

IEEE COMMUNICATIONS CHAPTER REPORT

The officers met under a tree at the Lums in Winter Park on August 26th. The items covered were as follows:

1. Mike Germain, an engineer from Florida Telephone, has agreed to be the membership chairman for the Communications Chapter. His phone numbers are: Business 656-1515 Home 469-2798.
2. Communications will hold meetings in October, November, January, March and May. Meetings will be held during the fourth week of the month on Wednesday. Second choice would be Thursday for the day and third week of the month for the week.
3. Adopted a preliminary budget for Communications as follows:

Speaker Meals	\$100.00
Travel	75.00
Postage/fees	20.00
Miscellaneous	20.00
	<hr/>
	\$215.00

Meeting was adjourned when it got too hot to continue.

GOMAC 82, NOVEMBER 2-4, 1982

Sheraton Twin Towers, Orlando, FL. The Government Microcircuit Applications Conference (GOMAC) is a forum to promote the interchange of science and technology among scientists, engineers and administrators in the United States. Classified and unclassified papers will be presented in the following technical areas: system performance and environmental requirements; system advances made possible by VLSI/VHSIC; system/component design, architecture, software and test; hardware/software performance and cost; system reliability and fault tolerance; user/designer interface to IC fabrication facilities; impact of VLSI/VHSIC on analog/digital signal processing; standardization and logistic support; radiation hardness and noise margin in microelectronic systems; advanced system architectures; impact of HOL on signal processing; recent advances in equipment and subsystems. For further information about the 1982 GOMAC, contact the conference chairman: Robert Weck, U.S. Army ERAD-COM, DELET-MH-W, Fort Monmouth, NJ 07703. (201) 544-4489.

MEET THE CANDIDATE NIGHT

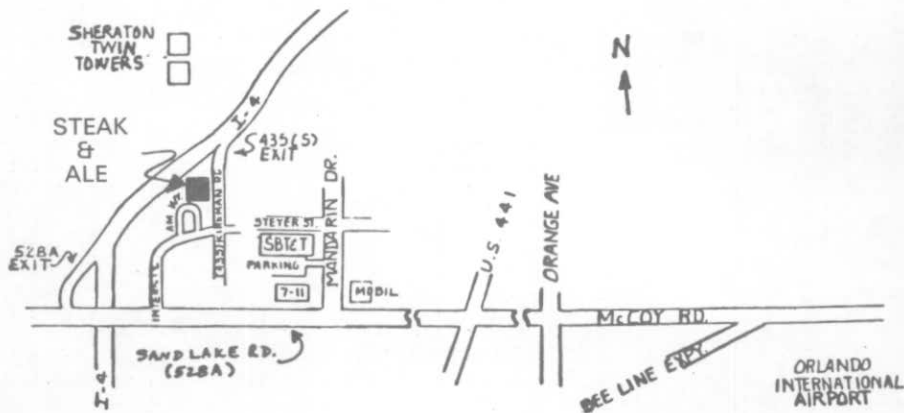
The FES is providing you an opportunity for personal contact with the County and State candidates and for brief talks. Please make your reservations with Bryant Marshall at 331-5966.

DATE: October 19
PLACE: Catalina Inn
TIME: 6 P.M. - 7 P.M. cash bar
7 P.M. Buffet
COST: \$6.00

COMMUNICATIONS SOCIETY MEETINGS NOTICE

- DATE:** WEDNESDAY, OCTOBER 20, 1982
- LOCATION:** United Data Services
Between Forest City and Apopka
- TIME:** 7:30 P.M.
- TOPIC:** Tour of United Telephone's Computer Data Services including their Data Processing Facilities and remote data gathering capability.
- DIRECTIONS:** Go west on 436 toward Apopka until you get west of the Orange-Seminole county line. The United Building is located by Border Lake on the south side of 436, across from a power substation.

- DATE:** THURSDAY, NOVEMBER 4, 1982
- LOCATION:** DINNER — Steak & Ale on All American Way
MEETING — Southern Bell Offices at Steyer St. and Mandarin Dr.
- TIMES:** DINNER — 6:00 P.M.
MEETING — 7:00 P.M.
- TOPIC:** Fiber Optics
Mr. William Shinnick, Senior Product Planner of Western Electric, Atlanta, will give an overview of Fiber Optic Manufacturing. All Interested should call 339-1600 for reservations for the dinner and/or meeting.



IEEE ORLANDO EXECUTIVE COMMITTEE EXECUTIVE BOARD

		Business	Home
Chairman	Mannie Connell	351-1210	273-8588
Vice Chairman	T. E. (Ed) Ellis	339-1600	834-3319
Secretary	Frank Fluet	843-7030	339-1805
Treasurer	Don Mendorf	628-9884	869-7435

STANDING COMMITTEE CHAIRMEN

Jr. Past Chairman	Benjamin W. Patz	275-2816	855-3685
Sr. Past Chairman	George F. McClure	352-3782	647-5092
Programs	Michael Harris		275-2548
Publicity	David George	859-5120	644-2596
Publications	Gerry White	646-4491	678-3621
Awards	Ed Ellis	339-1600	834-3319
Intersociety 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	275-2405	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
Member at Large	Herb Towle		

SOCIETY CHAPTER OFFICERS

AES Comm.	Chmn.	Dave Flinchbaugh	422-2662	859-4855
	Chmn.	George Taack, Jr.	339-1600	321-0319
	V. Chmn.	Bill Strickland	351-9960	
Computer	Secy.	Walt Wolters	351-9901	
	Chmn.	Clark M. Hay	339-1600	677-3114
	Mbr. V. Chmn.	William Joseph	352-4126	299-7399
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		
Stu. Cmptr.	Treas.	Jon Klages		275-0023
	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, except July, 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.

ORLANDO SECTION
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ORLANDO SECTION NOTES

VOLUME XVIII
NUMBER 5
JANUARY 1982-83

JANUARY 1983

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
DECEMBER 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	FEBRUARY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28			1 New Year
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19 COMMUNICATIONS MT. ELECTRON DEVICES	20	21	22
23 30	24 31	25	26	27	28	29

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS

CHAIRMAN'S CORNER

This issue of the Section Notes marks the beginning of the 1983 year and again a time to set some new goals for the year ahead.

- 10% increase in Membership
- 15% increase in Student Membership
- 10% increase in Senior Members
- 5% increase in Fellows
- Hold a successful Southeastcon
- Hold a successful Tutorial Week East
- Hold a successful Digital Signal Processing Course

By the way, each *new* member is entitled to a free IEEE coffee cup, complements of the Orlando Section.

Any one wishing to volunteer for service as for Program Chairman, Southcon 84, Southeastcon 83, Tutorial Week East 83, or the Engineers Week please contact me and I will direct you to the right person for information.

I would like each Chapter Society Secretary to prepare the meeting reports for the 1982 calendar year and submit them to Frank Fluet before January 10, 1983.

Mannie Connell

Chairman

Orlando Section IEEE



JOINT MEETING COMMUNICATIONS/ MTT/ELECTRON DEVICES

A joint meeting of the Communications, MTT, and Electron Devices groups will be held Wednesday January 19, 1983 at 7:00 P.M. District managers Bill Amidon and Don Olsen of Southern Bell will discuss the effect of the divestiture on the individual subscriber and the Bell companies. The meeting will be at Southern Bell's facility at 500 N. Orange.

An optional dinner at Harley Hotel will be held at 6:00 P.M. Reservations for the dinner and/or the meeting should be made by calling 339-1600 X-132.

ANNUAL AWARDS DINNER

DATE: Friday, February 25, 1983
TIME: Cash Bar 7:00 P.M. - Dinner 7:30 P.M.
LOCATION: Imperial House Restaurant, Winter Park

COST: \$13.00 Each - Prime Ribs
(Fish or Vegetable Plate available for those
with dietary restrictions)

RESERVATIONS: 339-1600 X143 or X132
Reservations must be received by 2:00 P.M.,
February 23.

SPEAKER: Richard Schroth, General Electric Co.,
Plymouth, FL.

TOPIC: Robotics
Mr. Schroth's talk will be addressed to the
varied background of the audience -- Robotics
Specialists, Engineers in related fields and
those having no familiarity with Robotics or
Engineering.

MEETING NOTICES

Thursday, Feb. 17 - Electron Devices

5:15 P.M. at Hewlett Packard (Lake Ellenor Drive)

Speaker: Richard C. Bruning, Orlando Aerospace Chief Counsel

Topic: Risk and Change in the Fixed-Price Environment

Further Info: Mickey Mindock - 352-2776 or Dick Zanowick -
352-2914

Thursday, Feb. 24 - Microwave Theory & Techniques, Antennas &
Propagation

5:15 P.M. at Hewlett Packard (Lake Ellenor Drive)

Speaker: Dr. Robert W. McMillan, Georgia Tech

Topics: 1) A millimeter Wave Synthesizer for the 40-60 Hz
Waveguide Band

2) Measurement of Turbulance Effects on Millimeter
Wave Propagation

Dinner Following - Gary's

Further Info: Al Fowler - 678-2141 or Carl Schunemann -
352-4366 or Larry Pack - 857-2591

Tuesday, March 1 - Electron Devices

5:15 P.M. at Hewlett Packard (Lake Ellenor Drive)

Speaker: Malcolm J. Russ, General Manager & Executive V.P.
Wacker Siltronic, Portland, OR.

Topic: Wacker Siltronic Silicon Facility

Further Info: Mickey Mindock - 352-2776 or Dick Zanowick -
352-2914

ANNUAL AWARDS BANQUET

Representative Bobby Brantley will be guest speaker at the 1983 Awards Banquet on February 25, 1983. His topic will be "Encouraging Growth of High Technology Industry in Florida." A cash bar will be open at 6:00 p.m. and dinner will be served at 7:30 p.m. at the Imperial House on 17-02th Avenue, Palm Beach Gardens, Florida.

The Prime Rib (\$13.00) will be the main item on the menu, but a vegetable plate or fish will be available for those with dietary restrictions. Reservations must be made by 2:00 p.m. on February 23 by calling 339-1600 X-132.

Material to be included in the Section Notes should be mailed to the Publications Chairman by the twentieth of the month preceding publication date. (Address: Dr. G. C. White, 701 Golfside Villas, Winter Park, Florida 32792)

Professional advertisements are encouraged. Rates are available from the Advertising Manager. (Address: William Kownacki, 950 Sharon Court, Oviedo, Florida 32765)

1983 IEEE SOUTHEASTERN CONFERENCE April 11-13, 1983

SOUTHEASTCON '83 will draw together industry, government, colleges, and universities from ten southeastern states. The three days of technical sessions, panel discussions, seminars, and exhibits will be of interest to electrical engineers and other professionals who are concerned with electrical and electronic theory, design, applications, operation, and management.

Approximately forty technical topics of high current interest are proposed for papers. Additional information is available from Dr. Bruce Mathews, Technical Program Chairman, University of Central Florida, College of Engineering, P.O. Box 25000, Orlando, FL 32816 (phone 305-275-2156).

IEEE ORLANDO SECTION EXECUTIVE COMMITTEE MEETING

DATE: December 7, 1982

LOCATION: Stromberg Carlson, 1044 N. Orlando Ave., Winter Park

ATTENDEES:

Frank Fluet	George McClure
Clark Hay	Ben Patz
Rick Hardin	DAve Flinchbaugh
Jack Hartley	Russell E. Theisen
Bill Cram	Ernest E. Erickson
Carl F. Schunemann (for Al Fowler)	Geoffrey E. Dick
Dick Zanowick (for Mickey Mindock)	John Gilbert
George Taack	Mannie Connell
Gerry White	Joseph L. Massett

Minutes:

1. Meeting was called to order at 5:50 PM by Chairman Mannie Connell.
2. Russ Theisen moved that minutes be accepted. Seconded by Bill Cram then the motion carried.
3. No Treasurer's report.
4. **Publications:** Gerry White reported that the SECTION NOTES are late from the printers but should be available tomorrow for distribution.
5. **BYLAWS Committee Report:** Ernie Erickson.
Result of last meeting was to reorganize the BYLAWS along the lines of the National BYLAWS. The reorganization of the various sections should clarify the BYLAWS by grouping related topics in the same section.
6. **SOUTHCON '84:** Ben Patz requested volunteers to work on committees when SOUTHCON returns to Orlando in 1984. Russ Theisen, Clark Hay, George McClure, Bill Cram and John Gilbert volunteered.
7. **SOUTHEASTCON:** Russ Theisen.
Announced next meeting of committee at 9:00 AM at Sheraton Twin Towers. Papers have been reviewed and accepted. Authors have been notified.
8. **PACE:** John Gilbert announced that the cups with the IEEE logo are made and the cost will be approximately \$3.00 each. The manufacturer however has mistakenly made 96 more than the 144 ordered and has offered them to us at approximately \$1.00 each plus freight. Bill Cram moved that we approve funds to accept the offer. Clark Hay seconded. Motion carried.
9. Mannie Connell announced that George McClure is the Orlando Section's nominee to the Florida Council of the IEEE.
10. **Communications:** George Taack.

The November meeting was held on November 4, 1982. Mr. William Shinnick of

Western Electric, Norcross, GA gave a talk on manufacturing and applications of fiber optics. The meeting was attended by twenty-six people.

The next meeting will be a joint meeting of Communications - MTT - Electron Devices on January 19, 1983. There will be two people from the Bell System to discuss the divestiture of AT&T and the effect on the individual and the Bell Companies. Those interested can attend dinner at the Harley Hotel prior to the meeting. Reservations will be made through Stromberg-Carlson for both the dinner and the meeting. The S-C number is 339-1600, Extension 138 - Wanda Sales, Extension 142 - George Taack, or Extension 143 - Ed Ellis.

11. **Computer:** Clark Hay introduced two colleagues who are interested in IEEE Executive Committee activities: Rick Hardin and Jack Hartley.

The November 23rd meeting was a mixed success. The planned panel discussion format fell through due to lack of speakers. Jim Burke from Intel did a super job of discussing the latest offerings from his company. There were 29 present but this was less than the guarantee so we had to pay for some unconsumed but reserved meals.

A January 18 meeting is planned to have distinguished visitor Dr. T. R. N. Rao of University of Southwestern Louisiana. He will speak on Memory Package Error Detection and Correction. Single Error Correction - Double Error Detection (SEC-DED) codes have been successfully used in computer memories for reliability. In VLSI storage arrays bit error correction as well as byte error detection/byte error correction become very important. Dr. Rao will discuss generation of cyclic codes with high information rates which are easy to implement and provide for such conditions as 1) single byte error correction and 2) single error correction, double error detection, and byte error detection. Date of the meeting is subject to change since Dr. Rao will also be speaking to the Tampa Section and at USF on this trip. Firm date should be available by December 20 cutoff date for Orlando SECTION NOTES.

12. **Electron Devices:** Rick Zanowich (for Mickey Mindock). Discussed the joint meeting with MTT Society that took place November 18. (See 13. below).

13. **MTT:** Carl Schunemann (for Al Fowler). Continued discussion of details of November 18 meeting where speaker was Tom Sohquist of SAWTEC. Twenty-two attendees were present. At the Wednesday March 16, 1983 meeting, Bruce Hudson of SCIENTIFIC ATLANTA will be speaking on Millimeter Wave Antenna Testing. Location will be announced after arrangements are confirmed.

14. **PE/IA:** Geoff Dick: Reported on the last meeting which had 21 attendees and was addressed by Dr. Stephen Bardwell, Editor of "FUSION" magazine.

15. **Old Business:** Russ Theisen moved that we again table the motion that was tabled last month pending a budget and program outline from Fred Simons concerning the advance of \$1,000 as seed money to help sponsor the Technical Seminar on Modeling and Simulation. Seconded by George McClure. Motion to table carried.

16. **New Business:** John Gilbert announced the seminar sponsored by IEEE PACE to be held at Hyatt Orlando 8 AM to 4:30 PM, January 14, 1983 entitled: "How is U.S. Technology Policy Developed and Promulgated and How Can Professional Technical Societies Such As IEEE Influence It Most Effectively?" All are welcome.

17. **New Business:** Dave Flinchbaugh reported on a presentation he made to the

Advance Announcement

Tutorial Week 83 ⊕ EAST

General Chairman: Murali Varanasi, University of South Florida

Program Chairman: Donald Mendorf, Stromberg-Carlson
Ben Patz, University of Central Florida

Local Arrangements: Joseph Massett, Martin Marietta Aerospace

Publicity: Dave McEwen

Treasurer: Harry Hayman, IEEE Computer Society

Finance and Secretary: Edmund Gallizi, University of South Florida

A solid week of tutorials in 3 tracks • April 4-8, 1983

Attendance limited to 125 per tutorial. Advance registration only: deadline—March 8, 1983

MONDAY, APRIL 4 TUESDAY, APRIL 5 WEDNESDAY, APRIL 6 THURSDAY, APRIL 7 FRIDAY, APRIL 8

①

**Interactive Computer
Graphics**

Herbert Freeman

②

Robotics

George C. Lee
K. S. Fu

③

Structured Programming

Victor R. Basili

④

**The C Programming
Language**

Alan Feuer

⑤

Ada

Joseph Urban

⑥

⑦

⑧

⑨

⑩

Software DesignAnthony I. Wasserman
Peter Freeman**Software Development Environments**

Anthony I. Wasserman

Software Configuration Management IWilliam Bryan
Stan Siegel**Software Configuration Management II**William Bryan
Stan Siegel**Software Testing**

Edward Miller

11

Data Communications

Marshall D. Abrams

12

Distributed Data Base Management Systems (DBMS)

James E. Larson

13

End User Facilities for the Eighties

James E. Larson

14

Automated Tools for Software Engineering

Edward Miller

15

The UNIX Operating System

John H. Carson

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

Per Tutorial All Week

FEES: Members	\$110	\$500
Nonmembers	\$135	\$600

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: MARCH 4, 1983Write to: RESERVATIONS, IEEE-CS
Tutorial Week
Orlando Marriott Inn
6700 Sand Lake Road
Orlando, FL 32807
(305) 351-2420 x7716**RATES:** Single or Double: \$65.00**Mail to: Tutorial Week 83 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

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**IEEE COMPUTER SOCIETY****INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS**

Society of Women Engineers (SWE). He spoke about Robotics and Automation Technology.

18. **Awards Committee:** Joe Massett.

The nominations deadline is January 15, 1983. The awards are:

- a. Orlando Section Engineer of the Year
- b. Outstanding Graduate Engineering Student at UCF
- c. Outstanding Engineering Student at UCF
- d. Outstanding Chapter Chairman of the Year
- e. Region III Outstanding Engineer

19. Ben Patz moved for adjournment, seconded by John Gilbert. Motion carried.

20. Meeting adjourned at 7:10 PM. Next meeting will be Tuesday, January 4, 1983, at the same location.

ORLANDO SECTION AWARDS FOR ENGINEER'S WEEK - 20 FEBRUARY 1983

Nomination Deadline: 31 January 1983

Call for Nominations:

As part of the annual Engineer's Week banquet (25 February 1983) the Orlando Section will select persons for the following awards from nominees submitted by local Groups, Society Chapters, Student Chapters, or Professional Activities Committees. Additionally, those section members desiring to present additional nominees may do so by petitions signed by eight (8) or more Orlando Section members. Student awards shall be submitted by the University of Central Florida Electrical Engineer and Computer Science departments.

Awards:

- Engineer of the Year
- Outstanding Electrical Engineering Graduate Student
- Outstanding Electrical Engineering Senior Student
- Outstanding Chapter Chairman of the Year

Qualifications:

The nominees must be a current member of the IEEE in good standing and may be any grade from Student through Fellow inclusive. The nominee need not be a member of any Group or Society of IEEE.

Form of Nomination:

The form of the nominations is left to the groups providing the nominations. It is to be emphasized that nominations should be in good enough detail that the candidate may be fairly and completely evaluated for the Section award according to the criteria listed below. It is suggested that a minimum concise nomination should consist of a resume, activities list, and a cover letter explaining why he has been chosen for the Chapter nomination. Nominations should be addressed to the Awards Committee Chairman and are due to be received no later than January 31, 1983. The Awards Chairman will be pleased to answer any questions that arise.

Section Criteria:

The Electrical ENGINEER OF THE YEAR will be selected by the Awards Commit-

tee who will evaluate the candidates by the following point system:

1. The quality and quantity of contributions through efforts on Research, Development, Design, Managerial, Educational and other equivalent engineering areas. (70)
2. Contributions to the IEEE. (10)
3. Publications, Patents, and associated activities. (10)
4. Memberships, Accomplishments, and Responsibilities in other technical and Professional groups and activities in various activities of benefit to the Community and Society in general. (10)

The Chapter Chairman of the Year is a new award to be voted by the Section officers and the Award's Chairman. The award will be based on the number of chapter meetings held in 1982; attendance to those meetings; contributions toward a better chapter; activities to improve the image of the chapter; attendance at Section executive committee meetings, Section committee assignments.

Presentation of Candidates:

Each nominating entity shall present a three minute introduction of their candidates. Awards shall be as approved by the Section executive committee.

MEETING NOTICE ELECTRON DEVICES SOCIETY

The Electron Devices Society will hold a meeting at Hewlett Packard on Lake Ellenor Drive on February 17, 1983. Mr. Richard Burning, Chief Counsel, Martin Marietta Aerospace will discuss "Risk and Change in a Fixed Price Environment". The presentation will be at 5:15 p.m.

The Electron Devices Society will also hold a meeting on March 1, 1983. Mr. Malcom Russ, General Manager and Executive Vice President of Wacker Silitronics will present "Wackers Silicon Ingot Producing Facility". The meeting will begin at 5:15 p.m. at Hewlett Packard on Lake Ellenor Drive.

TUTORIAL WEEK EAST 83

Each spring the IEEE/Computer Society offers a week of tutorials covering a wide range of current technical subjects in the computer and data processing fields. This year fifteen full day sessions are offered the week of April 4-8, 1983. This is an outstanding opportunity for professionals in the computer field to update their knowledge, and for employers with limited training budgets to provide quality education for their staff. Cost, topics, and schedule information may be found elsewhere in this issue.

SCHEDULE OF FUTURE ORLANDO AREA CONFERENCES

January 25-27	Annual Reliability and Maintainability Symposium Sheraton Twin Towers
February 2-4	Signal Processing Short Course UCF
April 4-6	Tutorial/East Orlando Marriott Inn
April 11-14	SOUTHEASTCON '83 Sheraton Twin Towers
August 21-26	Eighteenth Intersociety Energy Conversion Conference

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Rates are affordable and depend upon your employment category and the amount of coverage desired. If you have IEEE's other insurance (life, accident, medical, etc.) you will be aware that IEEE receives no financial benefit and that the program is operated only for the members' benefit.

Full information is available by calling (800) 424-9883 or by writing: Administrator, Professional Liability Plan for IEEE Members; 1707 L Street N.W.; Suite 700; Washington D.C. 20036.

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Awards	Joe Massett	352-3858	834-3448
Intersociety Liaison	Richard C. Harden	855-0881	855-5775
Prof. Act. Comm.	John Gilbert	365-2363	859-5492
Student Act. Comm.	Richard Miller	275-2786	
Education	Fred O. Simons	275-2405	678-1796
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Member at Large	William C. Cram		647-4123
SOUTHEASTCON	Russell E. Theisen	352-3877	671-4139

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	Chmn.	Mike Germain	656-1515	497-2798
	V. Chmn.	Bill Strickland	351-9960	
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	Chmn.	Clark M. Hay	339-1600	331-5523
	Mbr. V. Chmn.	William Joseph	352-3240	299-7399
Electron Dev.	Chmn.	Ralph M. Mindock	352-2776	862-7764
	Mbr. V. Chmn.	Donald C. Malocha	275-2414	862-5693
	Prog. V. Chmn.	Dick Zanowick	352-2914	645-0831
AP/MTT	Chmn.	Al Fowler	678-2141	365-5772
	V. Chmn.	Larry W. Pack	857-2591	671-4047
	Chmn.	Geoffrey E. Dick	352-2796	678-0979
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	Secy.	Roger D. Bowman	646-8222	275-7208
	Chmn.	Angela Palmer		859-5446
Student Br.	V. Chmn.	Jim Freeman		295-5982
	Secy.	Andy Lee		282-2718
	Treas.	Lynda Monckton		327-2363
Stu. Comput.	Chmn.	Tom Toor		286-6359
	V. Chmn.	Edward Jansson		644-9008

The Executive Committee meets the first Tuesday of each month, except July, 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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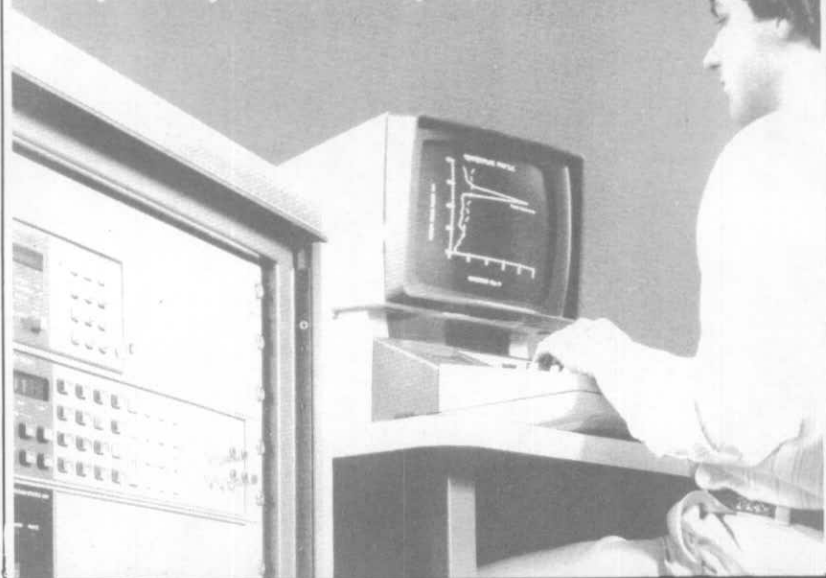
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ORLANDO SECTION NOTES

VOLUME XVIII
NUMBER 8
APRIL 1983

MAY 1983						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17 COMPUTER SOCIETY	18	19 COMMUNICATIONS CHAPTER	20	21
22	23	24	25	26 MTT SOCIETY	27	28
29	30	31				

APRIL		JUNE											
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONIC ENGINEERS

CHAIRMAN'S CORNER

Our Southeastcon '83 was held in Orlando this year at the Sheraton Twin Towers Convention Center, April 11 thru 13. This is our annual Region conference and featured more than 180 papers in 30 technical sessions. This year's Conference theme was "Technology Challenges in the New South". Speakers from 35 colleges and 40 firms spoke on subjects such as robotics, computer systems, pattern recognition, electron devices, and testing.

Russ Theisen of Martin Marietta was the organizer, George McClure the exhibits chairman, and Dr. Ben Patz was Student Conference Activities Chairman.

The third annual Tutorial Week East '83 was held at the Orlando Marriott Inn on Sand Lake Rd. and International Dr. during the week of April 4-8, 1983. Plans called for about 250 to 300 registrations per day for the 5 day series of tutorials on various computer related topics. Again the IEEE Computer Society was the sponsor, Murah Varanasi of the University of South Florida was the General Chairman, Donald Mendorf of Stromberg Carlson and Dr. Ben Patz of the University of Central Florida were Program Chairmen, local arrangements were handled by Joe Massett of Martin Marietta, publicity was handled by Dave McLaren, treasurer was Harry Haymain of the IEEE Computer Society, and Edmund Gullizzi of the University of South Florida the Secretary and Finance Chairman.

Thanks for all the efforts in helping get these two fine events in our city to run smoothly and be a success as usual.

Mannie Connell, Chairman
Orlando Section IEEE



ELECTRON DEVICES SOCIETY ANNUAL DINNER MEETING

- DATE:** MAY 24, 1983
PLACE: Sheraton Twin Towers
TIME: 6:00 P.M.
TOPIC: The Future of Engineering in Florida
SPEAKER: DR. ROBERT D. KERSTEN
 Dean College of Engineering
 University of Central Florida

Individuals requiring further information call Mickey Mindock 352-2776, or Dick Zanolwick 352-2914.

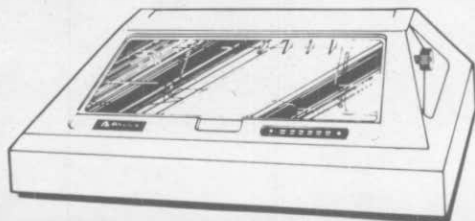
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COMPUTER SOCIETY**COMPUTER SOCIETY APRIL MEETING ON SUPERCOMPUTERS**

April 22 from 4 to 6 PM at UCF Room ED122 will be an opportunity to learn about supercomputers from Dr. Kai Hwans of Purdue University.

Dr. Hwans received his PhD degree in Electrical Engineering and Computer Science from the University of California at Berkeley in 1972. He is now an Associate Professor of Computer Engineering at Purdue. He has published extensively in the area of computer architecture, arithmetic system design, sequential machines, file structures, performance evaluation, and parallel processing techniques. He is Co-Principal Investigator on a research project on VLSI Multiprocessor Architecture for Pictorial Information Processing. His new book, *Computer Architecture for Parallel Processing*, will soon appear in the McGraw-Hill Computer Science Series. Dr. Hwans is a senior member of IEEE.

Supercomputers are currently under development for such application areas as seismic data processing, fluid dynamics, weather forecasting, economic modeling, nuclear energy, artificial intelligence, and basic research. Dr. Hwans will discuss the architecture of such computers as Cray-1, Cyber-205, BSP, IBM 370/168, Univac 1100/80, and the Denelcor HEP.

Trends and directions in future development will be assessed including information

from current research projects at MIT, UC Irvine, Manchester, France, Utah, and Japan.

MAY MEETING WILL FEATURE COMMUNICATIONS SOFTWARE Tuesday May 17th, Dr. Roser Cheuns, formerly of Bell Labs and now with Harris Corporation, will present information on communications software. Dr. Cheuns is the Associate Editor of Communications Software for the IEEE Transactions on Communications.

JUNE MEETING IS A TOUR OF GE ROBOTICS PLANT

The June 14 meeting is planned to be a tour of the new robotics facility that General Electric has put together in their Plymouth plant.

Participation will be limited so watch the next issue of OSN for details on how to sign up.

TIME TO THINK OF OFFICERS FOR 1983-1984 PROGRAM YEAR

With 224 members in the Orlando Section the Computer Society has a lot of talent to draw from in providing for interesting programs.

Next year we are going to organize a program committee with perhaps 10 to 12 members to plan our meetings rather than have a single program chairman responsible for all meetings as has been done the last several years.

If you want to be part of the program committee or play some other role in making next year the best ever for the local chapter of the Computer Society give Clark Hay a call at 339-1600 or 331-5523.

An organization meeting will be held in late June or early July to get us off to a running start.

IEEE Computer Society will sponsor a conference entitled, "Fault Tolerant Computing Symposium," which will be held in Orlando, FL, at the Hyatt Orlando, on June 19-21, 1984.

For further information, please contact Richard Sedmak, conference chairman, at (215) 542-3638, or the Conference Activities Office at IEEE Headquarters.

MEMBERSHIP DEVELOPMENT

TOTAL ORLANDO SECTION MEMBERSHIP AS OF 12-31-82: 881
 TOTAL ORLANDO SECTION MEMBERSHIP AS OF 1-31-83: 884
 Society membership as of 1-31-83:

Student:	56	WNIMP:	11
Regular:	590	Affiliate:	40
Retired:	12	Active:	709

Research into the growth of Orlando Section as of 2-1-83 showed a 44.9% gain in 4.5 years, or 8.59% per year, compounded, compared with Region 3 growth last year of 6.27%.

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MTT SOCIETY

MAY 26

Robert K. Crane, Research Professor of Engineering at Dartmouth College, will speak on "Propagation Phenomena Affecting Millimeter Wave Communications Systems."

Meeting will be at 5:15 P.M., with location to be determined later.

AWARDS BANQUET

The 1983 Orlando Section Awards Banquet was held Friday, 25 February 1983 at the Imperial House, Winter Park, FL. Approximately 60 IEEE members and guests were served a prime rib dinner followed by the awards ceremony. The guest speaker, Richard Schroft, Manager of the General Electric robotics facility in Plymouth, FL, closed out the evening.

Awards were presented to the following people:

Dr. David Flinchbaugh	Orlando Section Engineer-of-the-Year and AES nominee
T. E. (Ed) Ellis	Communications Society Engineer-of-the-Year nominee
Kevin Ford	Electron Device Society Engineer-of-the-Year nominee
Dr. Gerry White	Computer Society Engineer-of-the-Year nominee
Andrew Lee	UCF Senior Student-of-the-Year
David Kotick	UCF Graduate Student-of-the-Year
Mickey Mindock	Chapter Chairman-of-the-Year (Electron Device Society)

In addition a Certificate of Appreciation award was presented to Dr. Ben Patz and George McClure for their service as Section Chairmen.

The IEEE Orlando Section was cited as a nominee for Organization of the Year for the Florida Engineering Society since only three other organizations were nominated. Unfortunately, the nomination failed to obtain sufficient support on the 3rd ballot. Likewise, the IEEE Engineer-of-the-Year nominee, Dr. Ernie Erickson, failed to obtain sufficient support to win that award.

J. L. Massett
Awards Chairman

Digital Signal Processing WORKSHOP

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Review of differential equations and Laplace transformations. Difference equations; $H(z)$ discrete models, analog and digital filters; digital controllers; techniques of digital signal design. Additional presentations include digital spectrum techniques (FFT, function evaluation, etc.) and computer signal processing programs.

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Mr. Robert J. Martin

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TOMORROW/TODAY will be shaped to attract both general viewers and scientific engineering professionals. It will be aimed at an audience having a healthy curiosity and a discerning eye on the challenges ahead. The series will explore scientific and technological innovations at research centers throughout the United States and the rest of the world, reporting not only today's research and development but also their economic and social implications for the future. Three major science stories are planned

for each program so that viewers can expect at least one topic of strong personal interest each week.

In addition to the prime-time version of TOMORROW/TODAY, an instructional series of six 15-minute programs will be created for broadcast during daytime hours. These shorter programs will be edited from the general series to meet the curriculum requirements of in-school viewing.

The repackaged programs will provide the equivalent of science field trips, increasing students' awareness and understanding of R&D as it is actually practiced. By presenting an insider's view of research methods and discoveries, TOMORROW/TODAY hopes to afford students a clearer perception of science and engineering as a dynamic world where real people do exciting jobs in interesting settings. Associated curriculum materials will be distributed to secondary schools, to state departments of education and to all education directors at PBS stations throughout the country.

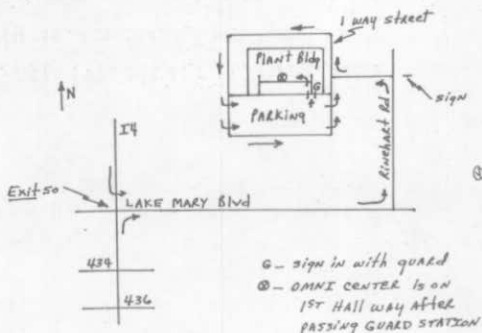
Executive producer for TOMORROW/TODAY is Peter R. Baker, who holds a Ph.D. in physics from the University of Sussex in England and spent twelve years writing and producing programs on science and technology for the BBC. Jack Samoth will serve as coordinating executive producer for WNET. Series producer is Nicholas Herlick, winner of multiple national awards and Emmy nominations for his science programs and other documentaries. Ellis Rubinstein, News Editor for *Spectrum*, will serve as coordinator for the publication's efforts with the producers of the series.

COMMUNICATIONS CHAPTER

- DATE:** THURSDAY, MAY 19, 1983
- LOCATION:** OMNI Center, Lake Mary Facilities
Stromberg-Carlson
- ENTRY:** East employee entrance on parking lot side of building
- TIME:** 7:30 P.M.
- TOPIC:** Cellular Mobile Radio

Mr. Jim Pitts, District Sales Manager of Motorola Communications & Electronics, Tampa, Florida will discuss and show a film on cellular mobile radio. A question and answer period will follow.

All interested should call 339-1600, X132 for reservations.



TREASURER'S REPORT

<u>BALANCE 1-4-83</u>	Checking Account	\$ 358.92
	Dreyfus Fund	<u>14,122.96</u>
		\$14,481.88

INCOME

Dreyfus Fund Quarter	\$356.35
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EXPENSES

Frank Fluet Postage	\$ 26.80
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Joe Massett Postage	10.15
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D. Flinchbaugh AES	
--------------------	--

Two Speakers	150.00
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G. McClure	
------------	--

Word Processing Software	125.35
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	<u>\$ 312.30</u>
--	------------------

Transfer from Dreyfus Fund to Checking	
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	\$1,000.00
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BALANCE

	Checking Account	\$ 1,046.58
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	Dreyfus Fund	<u>13,479.31</u>
--	--------------	------------------

		\$14,525.89
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BALANCE 2-1-83

	Checking Account	\$ 1,046.62
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	Dreyfus Fund	<u>13,479.31</u>
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		\$14,525.93
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INCOME

HP Ad	\$ 120.
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SME Repayment	91.
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Awards Dinner Receipts	585.
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Ad Payments	135.
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	<u>\$ 931.</u>
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EXPENSES

A. K. Fowler Meeting	\$ 36.16
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G. Taack Postage	9.55
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A. Palmer Student Project	150.00
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J. Hucko Square Dance Caller	80.00
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Florida Power Emp. Assoc.	
---------------------------	--

BAR-B-Q Club House	75.00
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Postmaster Postage Fees	200.00
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J. Massett Awards Cost	185.92
------------------------	--------

Awards Dinners Imperial House	718.43
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Seminole House Printers	
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Jan. Notes	367.50
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	<u>\$1,822.50</u>
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IEEE EXPENSES STATEMENT OF ACCOUNT

	[\$90.68]
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BALANCE

	Checking Account	\$ 155.06
--	------------------	-----------

	Dreyfus Fund	<u>13,479.31</u>
--	--------------	------------------

		\$13,634.37
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IEEE/UCF STUDENT BRANCH

The UCF IEEE Student Branch won second place at the UCF Engineering Fair. The project was a robot called NORT, TRON spelled backwards. NORT is constructed around an Atari 400 microcomputer used as a speech synthesizer. Directional control is done via tones sent through a radio link.

The Student Branch is planning NORT II for the next Engineering Fair. The plan for the robot is to have computer directional control and a mechanical arm with manual overrides. A speech synthesizer is also planned.



CIRCULATION: 1100; 950 in the greater Orlando area.

ADVERTISING RATES: Black and white, per insertion, effective Sept. 1, 1982.

Size:	Inches:	1-2 insertions	3-10 insertions, same copy
One page	5 x 8	\$65.00	\$60.00
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1/2 page	5 x 4	40.00	35.00
1/4 page	5 x 2	25.00	20.00
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CLOSING DATES:

Please make space reservations by the first of the month preceding publication. Black and white, positive copy should be received by the tenth of the month preceding publication.

Contact: William A. Kownacki, 275-2318 (office)

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	Mbr. V. Chmn.	Donald C. Malocha	275-2414	862-5693
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	Secy.	Roger D. Bowman	646-8222	275-7208
Student Br.	Chmn.	Angela Palmer		859-5446
	V. Chmn.	Jim Freeman		295-5982
	Secy.	Andy Lee		282-2718
Stu. Comput.	Treas.	Lynda Monckton		327-2363
	Chmn.	Tom Toor		286-6359
	V. Chmn.	Edward Jansson		644-9008

The Executive Committee meets the first Tuesday of each month, except July, 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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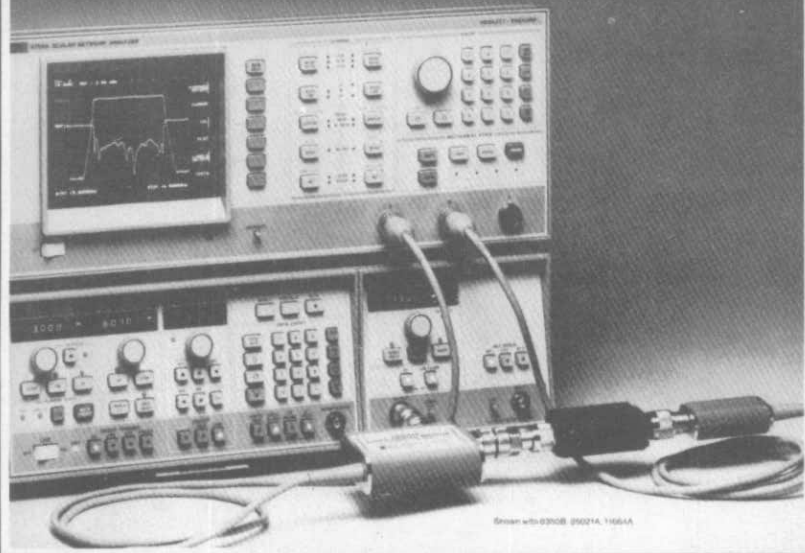
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