

VOLUME XIV
NUMBER 1
SEPTEMBER 1979



ORLANDO
SECTION
NOTES



IN
IEEE
ELECTIONS
THIS FALL

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONICS ENGINEERS

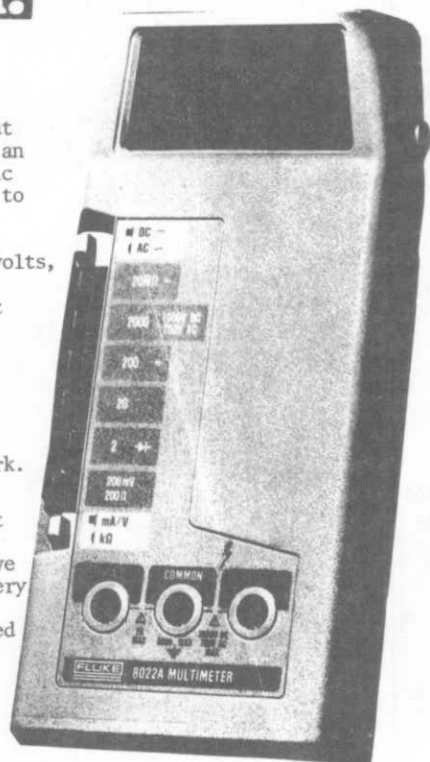
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CHAIRMAN'S CORNER

As we start the activities of the Orlando Section for this administrative year, there are still several vacancies on the Executive Committee. Any member interested in serving the IEEE Orlando Section in any of the following positions, please contact me, phone 275-2786 (work) or 671-5026 (home).

PROGRAM CHAIRMAN**PAC CHAIRMAN****PUBLICITY CHAIRMAN****SECTION TREASURER**

There is increased interest in the IEEE elections this year. The two candidates for the 1980 IEEE President, Leo Young and Burkhard Schneider, have had several debates around the U.S. One of these was in Orlando. IEEE headquarters has supplied us with a cassette tape of the debate in Cleveland. Any group or chapter interested in using this tape call me. Mannie Connell is planning a panel presentation of the issues involved in this year's election at a Section meeting in September to be announced. Watch for it — and attend to learn more about IEEE.

I look forward to serving you as your Section Chairman and welcome any comments and suggestions from the members concerning the operation and programs of the Section.

Ernest E. Erickson
Chairman

SPECIAL SECTION MEETING NOTICE

Panel debate of issues of concern to local IEEE members.

WHEN: September ¹³~~19~~, 1979

WHERE: John Young Planetarium Auditorium

TIME: 7:30 P.M.

What are the real issues before IEEE in the upcoming presidential election? What are the member's concerns locally? A panel of local, regional and national IEEE officers will debate these issues and give our members a chance to let their opinions be known. This is your chance to hear what's really going on within IEEE and help formulate solutions to problems occurring at both the working engineer level as well as at higher levels.

A cassette tape of the Presidential debate on June 6 in Cleveland is available from E. E. Erickson, call 275-2786.



POSITION STATEMENT OF PRESIDENTIAL CANDIDATE

Burkhard H. Schneider

The IEEE is a pioneer among technical societies in the development of professional programs for its members. From our base of technical activities, we have built constructive, far-reaching programs in the professional area. The key issue now is balance. If we are to grow, we must emphasize both the technical and professional roles with meaningful cooperation between the two. Strong, competent leadership, at all levels of the Institute, is required to achieve future growth.

To assure prosperous and challenging careers for its members, the IEEE must participate with government decision makers in developing technically sound policies on vital issues, such as energy, R&D funding, and venture capital. This must be done in concert with many of the worthwhile existing programs which directly impact the work environment of our members. New efforts for portable pensions, as well as preparation for future changes in the job market, are required now.

The Institute's total effectiveness depends on its prestige as a scientific and technical organization. Our already strong technical programs must be vigorously pursued and expanded to provide greater service to the applications-oriented member. Also, we must recognize the close inter-relationship between societal and technical problems.

The IEEE is a very democratic organization. We must continue to make every effort to listen to all points of view and respond to worthwhile suggestions. The fundamental objective is to keep the IEEE moving forward--financially healthy, with effective leadership, and with a good balance of technical and professional programs.

A PHILOSOPHY FOR 1980

by

B. H. Schneider

IEEE PRESIDENTIAL CANDIDATE

The IEEE, as well as being by far the largest technical-professional organization of its kind, is also the most democratic and has perhaps the greatest diversity of membership in that members belong for a great many different reasons. The democratically constituted board has a difficult task developing programs which are of interest to the vast majority of the membership. But in spite of some criticism from many sides, the success of IEEE's operations over

the past few years must in the end be measured by (1) A growth of 29,000 members in the last ten years, 8,400 in the last year alone. Membership is still continuing to grow, (2) In spite of inflation, dues have not been raised since 1976, (3) Educational programs have increased by more than an order of magnitude, (4) All technical activities have increased dramatically, (5) Professional Activities, although still the subject of controversy, have some measurable successes behind them.

The challenge of the future is to continue to keep the IEEE moving forward while still responding effectively to minority points of view. This will require the strongest possible leadership and broad experience in IEEE affairs.

The presidential candidate is frequently questioned concerning specific plans for the year of office, if elected. It has to be remembered that by Constitution and By-laws, the IEEE President, in fact, has very little direct power. As appropriate in a democratic organization, the Board of Directors has final authority. The President, however, has great powers of persuasion through the prestige of the office and through the exercise of leadership. To be an effective President, the holder of the office must also be an effective leader. The following are some of the areas on which I expect to concentrate my efforts, aside from the day to day duties of presidency.

1. The IEEE President should be seen, heard, and be willing to listen. I plan to visit as many Regional Committees, Society AdComs, Sections, and Conferences as possible. To be an effective President, one must keep an ear to the ground.
2. We plan to set up a formal procedure to establish listening sessions for hearing alternative and contrary points of view on IEEE policies and programs. The details for this program will be outlined in the President's column in the January 1980 issue of The Institute. Implicit in such a program is response to worthwhile suggestions by encouraging change where warranted.
3. A special effort will be made to better understand the special problems of the Computer Society and the Power Engineering Society, so that steps can be taken to make them more comfortable in the IEEE environment.
4. Continue efforts to resolve different points of view regarding the professional activities program. USAB will be encouraged to renew efforts in the portable pensions area, as well as the development of programs which address the possibilities of a future changing job market for our members.
5. Continue to work with industrial leaders who are employers of our members to obtain their understanding of and support for IEEE programs.
6. Keep the Institute on a sound financial footing.

PATENT PROCEDURES REVIEWED IN SPECIAL ISSUE

The subject of patents is covered in a special issue of the IEEE Transactions on Professional Communication published in June. Among the 16 papers included are tips on reading patents; how to write an invention disclosure; a discussion of the U. S. patent classification system; the roles of publication, public use, and sale as bars to patenting; the right way to keep a laboratory notebook; good habits to follow before filing a patent application; the business value of patents; how to patent inventions based on algorithms; the plight of the independent inventor; and management criteria for effective innovation.

This 83-page special issue is available for \$4.00 in any quantity. Make check payable to the IEEE Professional Communication Society and send with order to:

Dr. R. J. Joenk, Dept. 588
IBM Corporation
P.O. Box 1900, Boulder, CO 80302

For other information, phone Dr. Joenk (Editor of the Transactions) at (303) 474-5764.

For \$3.00 you can join the Professional Communication Society (half-year rate, good until August 31) and receive all quarterly issues of the Transactions on Professional Communication plus the quarterly Newsletter and announcements of seminars and special courses dealing with improvement of technical writing and speaking skills. Simply send your \$3.00 check with member number to IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. Micro-fiche copies can be specified for your subscription instead of paper, at the same price.

LOOKING FOR HELP...?

The IEEE PROFESSIONAL COMMUNICATION SOCIETY
offers numerous opportunities that can help you
communicate better in situations that require

- WRITING
- SPEAKING
- ILLUSTRATING
- REVIEWING
- REPORTING
- PUBLISHING
- LECTURING
- LISTENING
- UNDERSTANDING

For more information, contact

Mr. RICHARD M. ROBINSON, C26-05
GRUMMAN AEROSPACE CORPORATION
Bethpage, New York 11714



FLORIDA COUNCIL OF IEEE NEWSLETTER

A Training Workshop for new section officers from all over the State of Florida was combined with an IEEE presidential debate and presentations by Region III director candidates in Orlando on June 2. The morning. Field Services support provided by IEEE was discussed in the morning, with from Headquarters making the presentation, and Dr. Dick Emberson providing additional answers to questions and historical perspective on some of the reasons for the way things are done. The noon lunch provided additional insight into IEEE by presenting a debate between two candidates for IEEE President, Burkhard Schneider and Leo Young.

The afternoon session concentrated on PAC and USAB activities. The morning sessions dealt with the administrative and operational aspects of IEEE Sections. Vern Powers, vice-chair of FCIEEE chaired the meeting. Roy Harris of Region III presented the IEEE structure to the attendees. He stressed the fact that it is possible to volunteer for membership on National Committees reporting to the Board of Directors. Joe Beidenbach of South Carolina presented a concise and informative analysis of EAB, Educational Activities Board. He indicated that IEEE EAB is working on developing new courses so that when local states require continuing education, an individual can write IEEE and obtain verification of courses taken. EAB plans to offer more than 400 Master level courses. (University offered at about 40 hours each). These courses will be available to sections on video cassette. FCIEEE plans to form a state Educational Committee to coordinate continuing activities in the state for all Sections. UCF has offered facilities for IEEE Continuing Education.

The luncheon debate between Burkhard Schneider and Leo Young was moderated by Art Greene of the Canaveral Section. Kudos to Art for his professional handling of the talk. The positions of both candidates are presented here in brief: During the debate, Schneider stated that his "views are the same as the 1977 membership survey". He believes that IEEE is a democratic structure and hopes to establish a balanced professional program which responds to the expressed desire of the membership. He postulates that an increase in dues may be needed to achieve these objectives. Schneider says that he sees a need for both technical and professional activities and will "work hard for a peaceful balanced program within USAB". He believes that the strength of IEEE's prestige is in the technical arena. Burkhard hinted at the implementation of listening sessions with members who feel that IEEE is not responding to the desires of the membership. He stated that USAB has many programs that are worthwhile but would like to see a strict program of priorities and approach issues that the membership is concerned about that can achieve some measure of success. He wants to pursue portable pensions. Finally, he said he favored the election of Vice President for Professional Activities and supports the concept of amicus curiae briefs for engineers.

Leo Young's summary was that he "came to learn" and concerned himself with increasing IEEE's responsiveness to the needs and desires of the membership. Young feels that USAB is addressing the needs of the

membership but favors the direct election of the Chairman of USAB by supporting the present petition to elect the Chairman. In the area of publications, he feels that there are no major problems and that Spectrum is improving. Finally, Young strongly supports the filing of friend of the court briefs in instances where IEEE members are faced with legal problems because of adherence to professional ethics.

The afternoon session began with the presentation of two candidates for Region III Director, Dave McLaren of GTE and Harry Weber of FIT. The afternoon was rounded out by a FILA presentation by Art Greene and a Florida PAC presentation by Jim Hammond.

Ron Waters
Secretary, FCIEEE

MTT SOCIETY

MEETING NOTICE

DR. JAMES C. WILTSE

Engineering Experiment Station

Georgia Institute of Technology

(MTT National Lecturer)

"MILLIMETER WAVES FOR 80s"

DATE: Thursday, September 27, 1979

Time: 7:15 P.M.

Place: Hewlett Packart Co., 6177, Lake Ellenor Dr., Orlando

Cocktails and Dinner: 5:30 P.M. at Gary's Duck Inn Restaurant,
3974 South Orange Blossom Tr.

For other details contact your chapter officers.

Chairman Dr. Deen Khandelwal 352-4094

Secretary Steven Gray 352-4560

MEETING NOTICE

PROF. DALE GRIMES

Head, Electrical Engineering Department

The Pennsylvania State University

University Park, PA

"AUTONOMOUS AUTOMOTIVE RADAR"

Date: Thursday, October 4, 1979

Time: 7:15 P.M.

Place: Hewlett Packard Co., 6177 Lake Ellenor Dr., Orlando

Cocktails and Dinner: 5:30 P.M. at Gary's Duck Inn Restaurant
3974 South Orange Blossom Tr.

For further information, please contact your chapter officers

Chairman Dr. Deen Khandelwal 352-4094

Secretary Steven Gray 352-4560

AEROSPACE AND ELECTRONIC SYSTEMS CHAPTER NEWSLETTER

The Orlando Chapter of AESS is planning its programs now for the upcoming season, and suggestions for program topics that would be of particular interest to the members are solicited. Please phone your suggestions to George McClure, Chairman, at 305/352-3782. Other officers of the chapter are Dr. Dave Flinchbaugh, Vice Chairman, and Clark Hay who has signed on as Secretary.

The effect of government policy in restricting commercialization of inventions developed under federal research and development contracts, and what to do about it, is being examined in hearings before the Senate Commerce subcommittee on Science, Technology, and Space. The hearings, which started July 23, are to consider a bill (S.1215) that would set a uniform policy for rights to government-sponsored inventions, thereby encouraging private industry participation in federal R&D programs and commercial use of their results.

Senator Harrison Schmitt (R-N.M.), a member of the subcommittee and a co-sponsor of the bill, deplored the morass of ineffective and sometimes counter-productive government patent policies that have discouraged contractor bidding and delayed commercialization of inventions perfected under federal contracts. Schmitt said that "ultimately it is the American public who suffers from these misguided policies through the failure of potentially significant technological inventions to reach the marketplace in a timely manner."

The current federal research budget of \$29 billion represents half of the nation's total investment in R&D and generates more than 100,000 invention disclosures a year. But only a small percentage find their way to commercial use, in part because the government generally refuses to allow a producer exclusive patent rights for the period necessary to recoup his investment.

The purpose of the hearings is to determine whether the patent system's principle of granting exclusivity in return for disclosure of inventions should be recognized in most government grants and contracts in order to increase the social benefits of publicly funded R&D. It has been charged that trends in the patenting process or patent litigation have seriously undermined the protection patents afford. The hearings are also examining, therefore, whether the alleged weakness of American patents represents a deterrent to domestic innovation and what, if anything, Congress should do to strengthen the patent system. Other sponsors of the bill are Sen. Howard W. Cannon (D-Nev.), chairman of the Commerce Committee, and subcommittee chairman Adlai E. Stevenson.

A special PC Transactions issue on patents is available, and is described in another announcement in the Section Notes.

The Electronic and Aerospace Systems Conference, EASCON '79, will be held at the Sheraton National Hotel, Arlington, Virginia, October 9-11, 1979. Papers are grouped by six general topic areas, with multiple sessions devoted to particular subjects in each area. The six are:

- C³ Requirements and Technology
- Radar
- Sonar
- Satellite Communications
- Embryonic Technology
- Information Networks

In addition, there are two topic areas in the classified program (attendance requires clearance and need-to-know): Strategic and Tactical C³, and Military Electronics. Evening tutorial sessions will be available on C³ and Intelligence, Data Compression, Optical Fiber Communications, and Radar Electronic Counter-Countermeasures.

Early registration for the conference (\$50 for IEEE members) should be mailed in time to be received by September 23. Hotel reservations must be made by September 10. For further information, contact George McClure (305/352-3782).

VEHICULAR TECHNOLOGY CHAPTER NEWSLETTER

The dividing line between land mobile radio and aerospace applications was further confused with the publication of a paper, "Land Mobile Communications and Position Fixing Using Satellites," in the August IEEE Transactions on Vehicular Technology. The work reported was performed by General Electric's Corporate Research and Development Center under contract to the U. S. Department of Justice. The potential applications were for law enforcement communications for the Drug Enforcement Administration (DEA) and the Immigration and Naturalization Service (INS). Another view of the same application was presented at the Vehicular Technology Conference in Orlando in 1977, in the paper, "Satellite Systems for Extended Range Coverage - Applications in Law Enforcement."

In a Report and Order released July 18 (SS Docket No. 78-394), the Federal Communications Commission modified procedures for the assignment of frequencies for trunked radio systems in the 806-866 MHz bands. The 200 channels now allocated for trunked systems are divided into ten 20-channel blocks with ten channel spacing between frequencies within the block. Each 20-channel block is divided into 5-channel groups with 40-channel spacings between successive frequencies in each 5-channel group. Frequencies will be assigned in minimum groups of 5 and in maximum groups of 20 channel pairs. All mobile and control station frequencies will be chosen from those allocated in the 806-821 MHz band, while base station transmitting frequencies will be chosen from those allocated in the 851-866 MHz band. A uniform 45 MHz spacing will be maintained between associated mobile and base station frequencies. Successive 20-channel blocks are staggered by one channel to reduce the intermodulation problems.

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Please send changes and updates to Ben Patz, 695 Gatlin Avenue, Orlando, FL 32806 (see above phones).

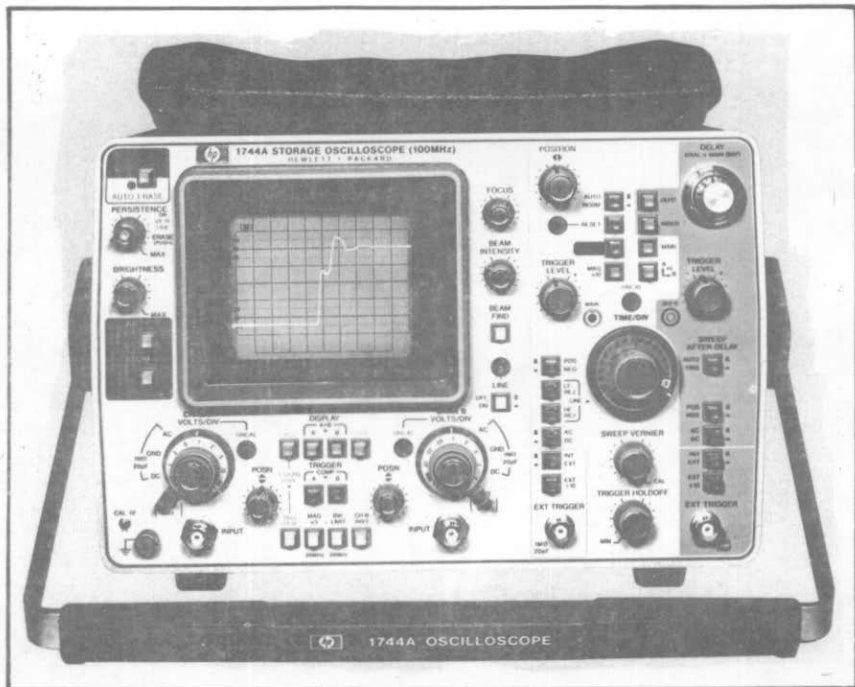
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INTRODUCTION

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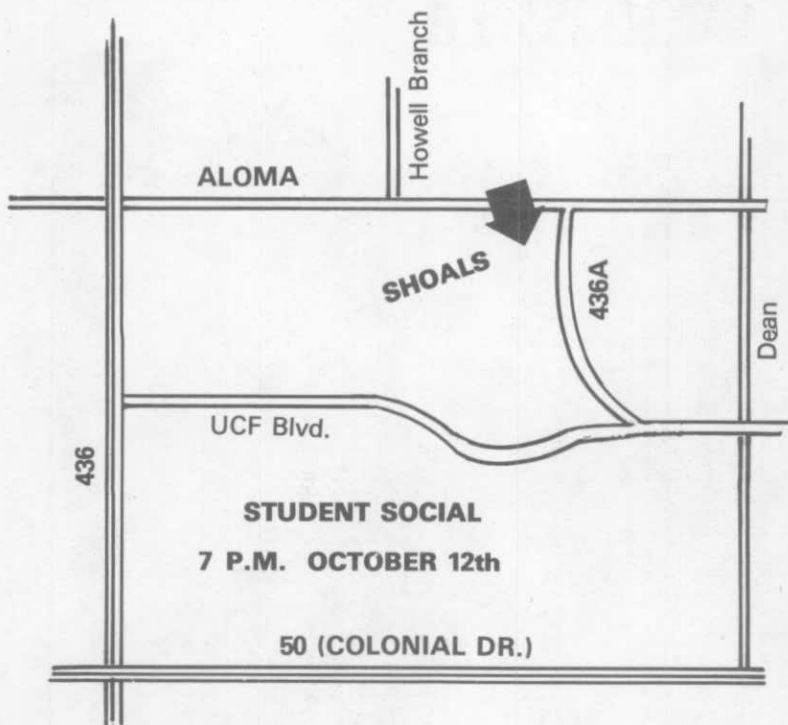
Additional features which provide exceptional versatility and ease of use include auto-erase and auto-store modes, multichannel storage, third channel trigger view for displaying the trigger channel along with both vertical channels, a times five (X5) vertical magnifier for 1 and 2 mV/div deflection factors on both channels to 30 MHz, and selectable input impedance (1 M Ω /50 Ω) for general purpose probing or convenient 50 ohm impedance matching.

For more information on the new HP 1744A Oscilloscope, and other products, contact your local HEWLETT PACKARD office at 859-2900.

VOLUME XV
NUMBER 1
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ORLANDO SECTION NOTES



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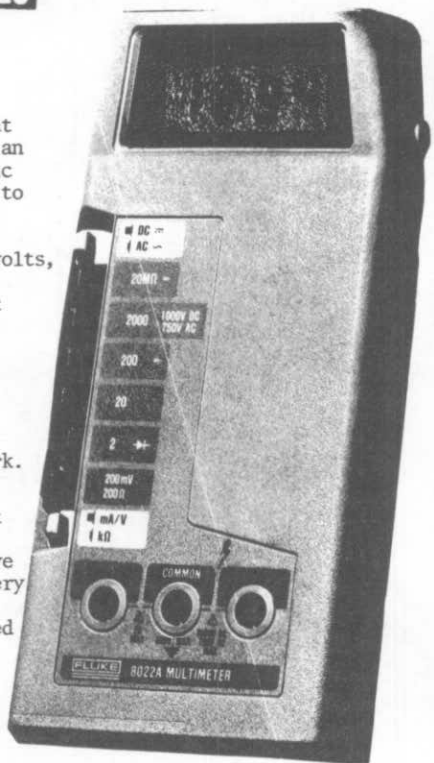
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SCHNEIDER PROPOSES "SKILLS AND JOB AVAILABILITY BANK" FOR IEEE MEMBERS

Burkhard H. Schneider, Board candidate for the IEEE Presidency, proposed that IEEE develop a computerized "Skills and Job Availability Bank" to put prospective employers in touch with IEEE members. A member seeking employment, or better utilization of skills, or a better opportunity would enter an individual record of professional skills and other pertinent data to be matched against similar records of available job openings.

"I don't claim to be the inventor," Mr. Schneider said, "only one who is proposing that this is something IEEE should be getting into now, and such a service will be a valuable member benefit." Even during times of high employment Mr. Schneider observed that many people feel "locked into" their jobs and would welcome new opportunities. "Many members," he continued, "feel that their real skills are ignored, or at best, underutilized." During a recession many stable employers, such as utilities and heavy industry, seek out engineers in industries suffering layoffs. Mr. Schneider stated that his employer has done so during previous layoffs.

He warned, however, against thinking that only those engineers in less stable industries would find a "Skills and Job Availability Bank" useful. "IEEE needs to be ready to respond to changing job markets for our members, regardless of whether we think that coming economic turndowns will impact the electronic and electrical industries. We must be ready for any eventuality."

While only IEEE members would be eligible to use the bank to seek employment, job openings would be sought through all sources. Small fees may be necessary to keep the operation cost-effective. The data base would not include information which could be viewed as discriminatory but could conceivably enable IEEE to furnish better data on electrical engineering employment to government agencies. IEEE would become a focal point for data collection and dissemination in a key concern and a vital link between prospective employers and IEEE members.

USAB has been asked to consider undertaking development of Mr. Schneider's proposal at its August 1st meeting.

LERA PENSION BILL INTRODUCED IN SENATE

Milestone Reached in Pension Task Force Efforts

A companion bill to H.R. 628, the LERA bill introduced by Congressman Corman (D-Calif.) earlier this year, was introduced in the Senate by the Majority Whip, Senator Alan Cranston (D-Calif.) on June 17. The Senate bill, S. 1428, is identical to H.R. 628; both are entitled "The IRA-Employer Plan Coordination Act of 1979."

The Corman-Cranston proposal provides for establishment of a Limited Employee Retirement Account (LERA) by employees—even though they may be covered by an employer-sponsored plan. Contributions may be made up to the present Individual Retirement Account (IRA) limit of \$1,500 annually.

The USAB Pension Task Force was instrumental in drafting the legislative provisions of H.R. 628/S. 1428. The Task Force was then under the leadership of Dr. Leo Young, this year's petition candidate for the IEEE Presidency. Dr. Young helped start USAB's pension activities and served as Task Force Leader for four years, until becoming IEEE Executive Vice President this year. Also pictured with Dr. Young and the Congressmen is Dr. John J. Guarrera, who serves on the Task Force and has constantly aided IEEE's legislative efforts.

Engineers would be aided in two significant ways. First, the legislation addresses the problem of career mobility, particularly engineers hired on a project basis who do not remain with one employer long enough to vest in the employer plan. Such employees would be enabled to contribute to an IRA/LERA on a tax-deferred basis, so long as they have not vested. Secondly, the legislation meets the needs of employees who may vest in an employer plan which is less valuable than an IRA. Upon vesting, employees may choose the greater amount: the IRA/LERA, or the employer plan.

Under present law, employees are prohibited from establishing an IRA while they are covered by an employer plan, even though they have not yet vested. Most employer plans provide vesting after 10 years of employment, yet a 1979 survey of job tenure of American workers showed an average of 3.6 years on the job.

In introducing S. 1428, Senator Cranston called for the support of his Senate colleagues in enacting the legislation. He voiced concern for engineering and scientific employees who are particularly hard hit by present tax laws and indicated his support of efforts to promote savings and capital formation.

S. 1428 is expected to be referred to the Senate Finance Committee. Ask your Senators to support this legislation, especially if they are members of the Finance Committee. Call the IEEE/USAB Washington Office, if you need

assistance.

On the House side, H.R. 628 has gained additional co-sponsors, bringing the total to 49.

A number of bills containing some type of LERA provision were introduced in the House and Senate this year. The progress of all of these is being monitored by the Washington Office. The outlook for passage of a LERA by next year is promising. □

JOINT MEETING NOTICE

Sponsored by

MTT AND VT SOCIETY CHAPTERS

Thursday, October 4, 1979

Topic: "AUTONOMOUS AUTOMOTIVE RADAR"

Speaker: Prof. Dale Grimes
Prof. Grimes is Head, Electrical Engineering Department, The Pennsylvania State University, and a former member of the Administrative Committee of the IEEE Vehicular Technology Group

Time: 7:15 P.M.

Place: Hewlett-Packard Co., 6177 Lake Ellenor Drive, Orlando Central Park

Optional Dinner: 5:30 P.M. at Gary's Duck Inn, 3974 S. Orange Blossom Trail

WHAT ARE YOUR VIEWS ON THE RECRUITMENT OF ENGINEERS OVERSEAS?

USAB's OpCom has issued a call for comments on the adequacy and appropriateness of current U.S. Department of Labor (DOL) procedures for the entry and classification of foreign engineers.

Classification H-2 implies DOL certification of need based on proven domestic shortage of the employees to be recruited abroad. Attempts have recently been made to change the status of engineers recruited abroad to Classification H-1 of the U.S. Immigration and Naturalization Service, which permits open entry of skilled aliens.

USAB OpCom favors the present procedures (Classification H-2) of DOL and is proposing that USAB adopt a position supporting their continuation.

What are your views? Write to: IEEE/USAB, 2029 K Street, N.W., Washington, D.C. 20006, Attention: USAB OpCom.

ORLANDO CHAPTER NO. 160



**SOCIETY OF
MANUFACTURING ENGINEERS
IS ALIVE AND WELL
SAVE THESE DATES:**

Oct. 11, 1979

Nov. 8, 1979

INFO:

**Mike Reggia
352-4596**



THE IEEE STUDENT CHAPTER

is sponsoring a social on:

DATE: Friday, October 12, 1979
TIME: 7:00 P.M.
PLACE: Shoals Apartment Complex on Aloma and 436A
(see map on front)

EXECUTIVE BOARD

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Vice Chairman	George F. McClure	352-3782	647-5092
Secretary	Dr. Benjamin W. Patz	275-2786	855-3685
Treasurer	Dr. Dave Flinchbaugh	1-867-4283	859-4855
Society Chapter Rep.	Mannie Connell	671-0470	273-8588

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IEEE-FES Liaison			
Publications	Gayle Lee Fairless	352-2471	859-2631
Sect. Notes Adv. Mgr.	Bill Kownacki	323-9250	365-5818
Member-at-Large	John E. Tracy	352-4448	859-1214
Member-at-Large	Homer Wilson	646-8230	855-0934
Member-at-Large	Eugene V. Dashiell	859-2900	859-2497
Member-at-Large	William C. Cram	830-9403	647-4123
Member-at-Large	James L. Gay	645-1510	644-7884
Member-at-Large	Jim Walter	351-9909	339-2071

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	V. Chmn.	Dr. Dave Flinchbaugh	1-867-4283	859-4855
COMM	Chmn.	Chuck Friel	830-3438	869-1948
COMP	Chmn.	Mannie Connell	671-0470	273-8588
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VT	Chmn.	Melvin C. Kelch	843-8484	859-1533
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Students	Chmn.	Carol Lynch		299-0618
Prof. Activities	Chmn.	Dr. Dave Flinchbaugh	1-867-4283	859-4855

Please send changes and updates to Ben Patz, 695 Gatlin Avenue, Orlando, FL 32806 (see above phones).

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MICROWAVE SPECTRUM ANALYZER

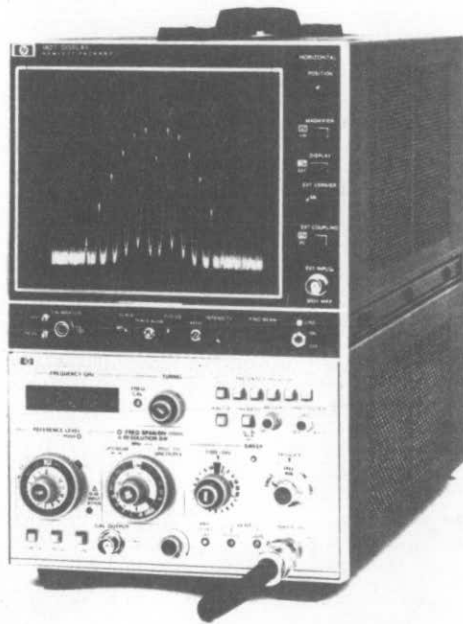
10 MHz to 21 GHz

model
8559A

PRECISION AND CONVENIENCE AT AN ECONOMY PRICE

- 10 MHz to 21 GHz
- Digital Frequency Readout
- -111 to +30 dBm Calibrated Amplitude Range
- Simplified Operation Speeds Measurements

The HP 8559A is a 0.01 to 21 GHz spectrum analyzer plug-in for the HP 180 series displays. It features the performance essential for accurate signal analysis yet is easy to use and portable. This valuable combination with its economical price qualifies the 8559A for a wide variety of applications in R & D, production and service.



For information, contact your local HEWLETT PACKARD office
at 859-2900.

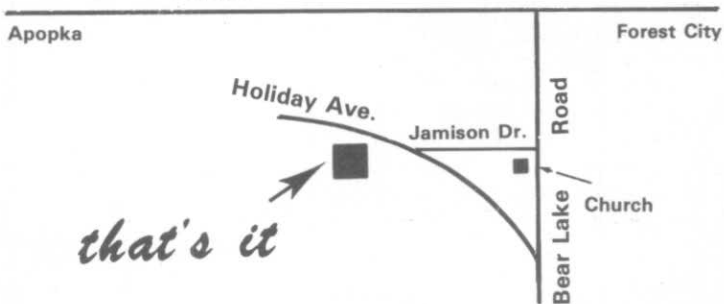
VOLUME XIV
NUMBER 2
NOVEMBER 1979



ORLANDO SECTION NOTES

ANNUAL BARBEQUE AND DANCE
SATURDAY, DECEMBER 1, 1979
Florida Power Bear Lake Recreational Facility
DINNER: 6:30 P.M.
Steak, Baked Potatoes, Salad, etc.
SQUARE DANCING: 8:00 P.M.
For the pro's and neophytes alike
REFRESHMENTS

SR 436



that's it

TICKETS:

\$7.50 per person (\$6.00 for students and children)

Buy your tickets before November 28 from a member of the Executive Committee listed in the NOTES or contact:
Ernest Erickson 275-2786

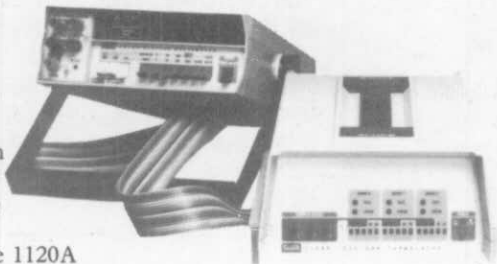
STEAK DINNER

SQUARE DANCING

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

A bench DMM that works on the IEEE Bus?

Yes, now you can put Fluke's popular 8810A DMM — previously dedicated to the bench — on the bus. Or even combine it with other Fluke bench instruments to form economical, powerful mini-test systems. You do it with the new 1120A IEEE-488 Translator. The 1120A converts bus codes and signals to be compatible with the particular instrument. Take a look at what a Fluke 8810A mini-test system can do for you.



- 5½ digits of output data for ac volts, dc volts, and ohms at $\pm 0.001\%$ basic dc accuracy
- Full guarding and plug-in options for 4-terminal ohms and True RMS ac
- Room for up to two additional instrument interfaces in the 1120A
- Complete system price \$1270, including 8810A dc mainframe, 1120A, and 8810A interface card

The 1120A works with a growing number of Fluke instruments including counters, frequency synthesizers, and voltmeters. Contact Fluke for all the facts.



John Fluke Mfg. Co., Inc.
940 N. Fern Creek Ave.
Orlando, FL 32803
(305) 896-4881

CHAIRMAN'S CORNER

By the time you read this, the IEEE election will be completed -- the ballots were due November 1. I hope *your* ballot is there to be counted.

The annual Orlando Section IEEE barbeque and dance will be on December 1, 1979, at the Florida Power Corporation's recreation facility on Bear Lake. It is scheduled a little later in the year than usual --- Perhaps the weather will be a little cooler. A good crowd had a wonderful time last year. Make your plans now to attend this year's event. And bring a prospective member or two! Get your tickets early. See elsewhere in this issue of NOTES for details about the barbeque.

As part of our program for professional development, it is planned to offer two or more short courses or seminars in the Orlando area. We will endeavor to present these at a time and fee structure such that they will be available to all interested members. Please let Dr. F. O. Simons, Jr., your Education Chairman, know your interests by using the tear-out questionnaire in these NOTES or phone Dr. Simons at (305) 275-2786.

Happy Thanksgiving. See you at the Barbeque, December 1.

Ernest Erickson

.....

PES & IA GROUP

is sponsoring a technical meeting on Improving Home Energy Consumption
Florida Power Corporation
510 S. Park Ave.
November 13, 1979
7:30 P.M.

For details, contact Jeff Dick 352-4624

.....

IEEE ENGINEERS WEEK AWARDS PROGRAM**DEADLINE: JANUARY 5, 1980****CALL FOR NOMINATIONS**

As part of the Section meeting during National Engineer's Week in February '80, the Orlando Section will announce Engineer's-of-the-Year for all Chapters providing a nominee. From these, a Central Florida Electrical Engineer-of-the-Year will be chosen. All local Groups and Society chapters (including the Professional Activities Comm. and the FTU Student Chapter) are urged to submit nominees. Those Section members desiring to present additional nominees may nominate by petitions signed by 8 or more Orlando Section members.

QUALIFICATIONS

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

FORM OR NOMINATION AND SELECTION CRITERIA

The form of the nominations is left to the groups providing the nominations. It is to be emphasized, that nominations should be in 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 as the Chapter Engineer-of-the-Year and Section Nominee. Nominations should be addressed to the Awards Committee Chairman and are due to be received no later than January 5, 1980. The Awards Committee will be pleased to answer any questions that arise.

THE ELECTRICAL ENGINEER OF THE YEAR WILL BE SELECTED BY THE AWARDS COMMITTEE 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 and in various activities of benefit to the Community and Society in general. (10)

PRESENTATION OF CANDIDATES AND AWARDS

Each nomination entity will provide a three minute introduction of their candidate. Each Chapter nominee will receive a framed certificate as Chapter Engineer-of-the-Year. The candidate selected as Central Florida Electrical Engineer of the Year will receive a plaque. No other plaques will be presented at this meeting.

William C. Cram
Chairman, Awards Comm.
971 Palmer Avenue
Winter Park, Fla. 32789

IEEE SHORT COURSES

It is planned to offer two or more short courses or seminars in the Orlando area if sufficient interest is evident. A sampling of courses available is listed below. Please indicate the course or type of course you would attend if offered at a reasonable cost, tear out and mail this page to: Dr. F. O. Simons, College of Engineering, University of Central Florida, Orlando, FL 32816.

- ___ Digital Signal Processing
 - ___ Intro to and Advance Application of Hand-Held Computers
 - ___ Computer Aided Filter Design (One Day)
 - ___ Microprocessor Seminar (Two Days)
 - ___ Microprocessor Programming (Three Days)
 - ___ Mini/Microcomputer Applications (One Day)
 - ___ Economic Decision Making Techniques for Engineers & Managers (Two Days)
 - ___ Cost Effective Control of EM Interference & Hazards (Non-Military) (Two Days)
 - ___ Fiber Optics (Two Days)
 - ___ How to Start a Business & Make It Grow (One Day)
 - ___ Communication & Report Writing Workshop (Two Days)
 - ___ National Electrical Safety Dode (One Day)
 - ___ Computer Security and Integrity - Tutorial (Two Days)
 - ___ Simplified Automated Test & Measurement System (One Day)
 - ___ Lightning Protection of Electronic Systems (Two Days)
 - ___ Radar Detection Calculation Procedures
 - ___ Other (Specify) _____
- Name _____
- Address _____
- Phone _____

.....

COMPUTER SOCIETY IS SPONSORING A November technical meeting/tour
For details call Mannie Connell at 671-0470 or 273-8588

.....

WINTER PARK TOLL CENTER**NEC-NEAX-61 DIGITAL SWITCH**

The Communication Society is sponsoring a tour on

THURSDAY, NOV. 15, 1979

at the

Toll Center

500 N. New York Ave. (corner of Swoope)

TIME: Dinner 6:00 at The Beef and Bottle

TOUR: 7:30 P.M.

Larry Lovett of Winter Park Telephone will conduct a tour of the new digital class 4 switch placed into service this fall.

Reservations are required both for those attending the dinner and those attending the tour. Reservations may be made by calling Ms. Dee Cass, 339-1600, Ext. 112 or 120, by *November 12, 1979*.

The Communication Society needs volunteers. Currently, we have two society officers, both from Stromberg-Carlson. We need representatives from other communications sectors, to help maintain an active communications group and balanced technical program.

Ed Ellis, Chairman
339-1600, Ext. 354

Don Mendorf, Vice Chairman
339-1600, Ext. 128

.....

ADVANCE MEETING NOTICE**AEROSPACE AND ELECTRONIC SYSTEMS CHAPTER**

Thursday, December 6, 1979

TOPIC: COPPERHEAD Cannon Launched Guided Projectile

SPEAKER: Phillip H. Morrison, Copperhead Systems Engineer
Martin Marietta Aerospace

LOCATION Orlando Public Library Auditorium
& TIME: Corner Rosalind and Central
7:00 P.M.

Copperhead is a laser-guided anti-armor round designed to be fired from a 155-mm howitzer. A design challenge was meeting the requirement for survival of the electronics in the round through the extreme acceleration experienced during firing of the round. Many on-target test firings have demonstrated the success with which this challenge was met.

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Secretary	Dr. Benjamin W. Patz	275-2786	855-3685
Treasurer	Dr. Dave Flinchbaugh	1-867-4283	859-4855
Society Chapter Rep.	Mannie Connell	671-0470	273-8588

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Past Chairman	William H. Rhoden	645-3444	671-3469
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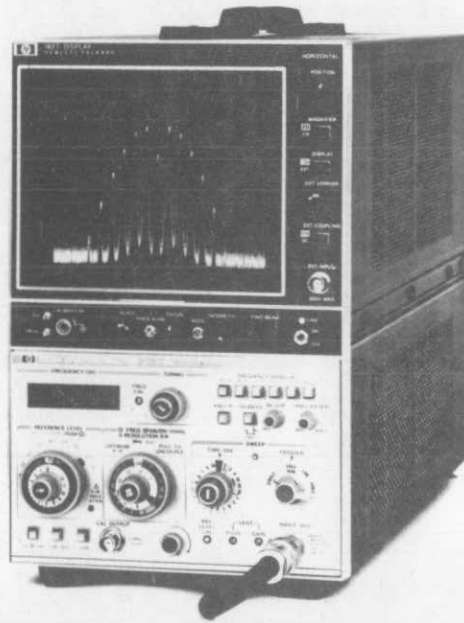
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at 859-2900.

VOLUME XIV
NUMBER 3
DECEMBER 1979



ORLANDO
SECTION
NOTES



*Happy
Holidays*



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

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FLUKE[®]

John Fluke Mfg. Co., Inc.
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(305) 896-4881

CHAIRMAN'S CORNER

Your Executive Committee has invited the Nuclear and Plasma Science Society to hold the Nuclear Science Symposium and Symposium on Nuclear Power Systems in Orlando on November 6-8, 1980, and also invited AutoTestCon to hold its 1981 national conference in Orlando. I think it is great that Orlando has become attractive to national and international conferences which will benefit the technical community and the individual IEEE member.

The Orlando Section Awards banquet held in conjunction with Engineers' Week is tentatively set for Saturday, February 16, 1980. Please note that the nominations for the Central Florida Electrical Engineer of the year from the societies and groups are due January 5, 1980. William C. Cram is the Awards Committee Chairman.

If you have not sent in your preference on IEEE short courses to Dr. Fred Simons, please do so now. See the list in the November issue of the Orlando NOTES.

Have a Merry Christmas.

Ernest E. Erickson

.....

COMPUTER SOCIETY IS SPONSORING

A PLANT TOUR OF WESTINGHOUSE
200 W. COLONIAL DRIVE, ORLANDO
7:30 P.M.

WEDNESDAY, DECEMBER 5, 1979

.....

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Thursday, December 6, 1979

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William C. Cram
Chairman, Awards Comm.
971 Palmer Avenue
Winter Park, Fla. 32789

MTT SOCIETY

FACILITY TOUR

- Facility:** WDBO-TV Transmitter Site
Address: Near Highways 420 and 419
Date & Time: January 15, 1980, 8:30 p.m.
Reservations: Required. Call Chapter officers (maximum attendance 25)
Transportation: Free from Martin Marietta (Bldg. 10) leaving at 7:45 p.m.

This transmitter site includes the facilities of WDBO-TV, Channel 6; WFTV, Channel 9; and WMFE, Channel 24; and a 1700-foot tall tower. All the transmitters are high power and represent the latest and the most powerful broadcast transmitters in the industry. The transmission facilities of WDBO-FM and WDIZ-FM are also included.

Mr. Chalmers Stromberg, our tour guide, has been the Chief Engineer of WDBO-AM/FM/TV for the last 12 years. Prior to that, he was Chief Engineer of KMSP-TV in Minneapolis-St. Paul. Mr. Stromberg has been very active in amateur radio activity and is a technical advisor to Valencia Community College.

For further information, please contact your Chapter officers.

Chairman		Secretary	
Dr. Deen D. Khandelwal	352-4094	Steve Gray	352-4560

COMPUTER SOCIETY OUR OF MARTIN MARIETTA

DATA SYSTEMS BY J. L. MASSETT

Martin Marietta Data Systems hosted a tour of their facilities on 16 October 1979 sponsored by the IEEE Computer Society. Twenty persons attended representing 10 area companies, including Orlando Utilities Commission, Naval Training Electronics Center, Reflectone, Fourdee, University of Central Florida, General Dynamics, International Laser Systems, Martin Marietta Aerospace, Cooper and Lybrand Accountants and Southern Bell. Mr. Kevin Schwab, who conducted the tour, explained the growth of the 24 hour, nation-wide data processing facility from 2 IBM 370/168's to 3 IBM 3033's and one 168. The 3033's are 3 times more powerful than the 168's. Schwab took us through the disc room containing 214 dis units, the tape library containing 75,000 magnetic tapes and the control center where operators monitor system performance and assist users from California to the Virgin Islands in system usage and software. The latest in IBM hardware was described and inspected, including the 3033 water-cooled CPU and the new mass memory system employing cylindrical tape cartridges.

Similar tours of other local facilities are planned this year. In addition, several noted national computer authorities will be presenting lectures on the latest in computer hardware and software technology as part of the Central Florida Computer Society programs. If you are currently not a member of the Society, join us at the next activity anyway. You may like what you see and hear and want to join our technology family.

Young elected 1980 president

New York—Leo Young, nominated by petition, has won the election for the 1980 IEEE presidency. Dr. Young defeated the board of directors' nominee Burkhard H. Schneider by a margin of 22,947 to 18,544.

Dr. Young served on the board of directors as executive vice president in 1979 and as Division IV director from 1971 through 1974. He is a staff consultant in the Electronics Technology Div. of the Naval Research Laboratory in Washington, D.C.

Other election results:*

Executive vice president

C. Lester Hogan 35 552

(unopposed)

Region 1 director

Hans C. Cherney 4657

Joel B. Snyder 3240

Region 3 director

David C. McLaren 2130

Harry P. Weber 1931

Region 5 director

Arwin A. Dougal 1395

John D. Peebles 1181

John Zaborsky 815

Region 7 director

Jean Jacques Archambault 1521

(unopposed)

Region 9 director†

Eduardo Bonzi Correa 251

Oscar Fernandez 257

Division I director

Jose B. Cruz Jr. 1122

Sydney R. Parker 997

G. Robert Redinbo 839

Division III director

Edward J. Doyle 2242

Louis J. Urban 2115

Division V director

Dick B. Simmons 3282

Merlin G. Smith 2527

Division VII director

James B. Owens 5112

(unopposed)

Region 3 vice chairman

Joseph M. Biedenbach 1682

K. Reed Thompson 2346

Proposed constitutional amendments

(require two-thirds vote to pass)

Proposition One (allowing election directly by membership of the Vice President for Professional Activities)

For 18 541

Against 21 387

Fails

Proposition Two (allowing election directly by membership of the Nominations and Appointments Committee)

For 19 859

Against 20 227

Fails

*Results are unofficial. Validation occurred after THE INSTITUTE'S deadline.

†Region 9 results will be recounted.

• Reprinted from THE INSTITUTE, Vol. III, No. 12, December 1979.

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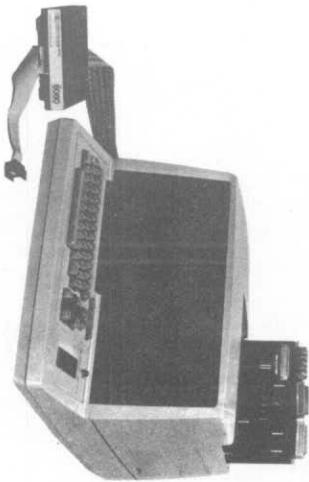
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Model 64000

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- run programs with no existing hardware,
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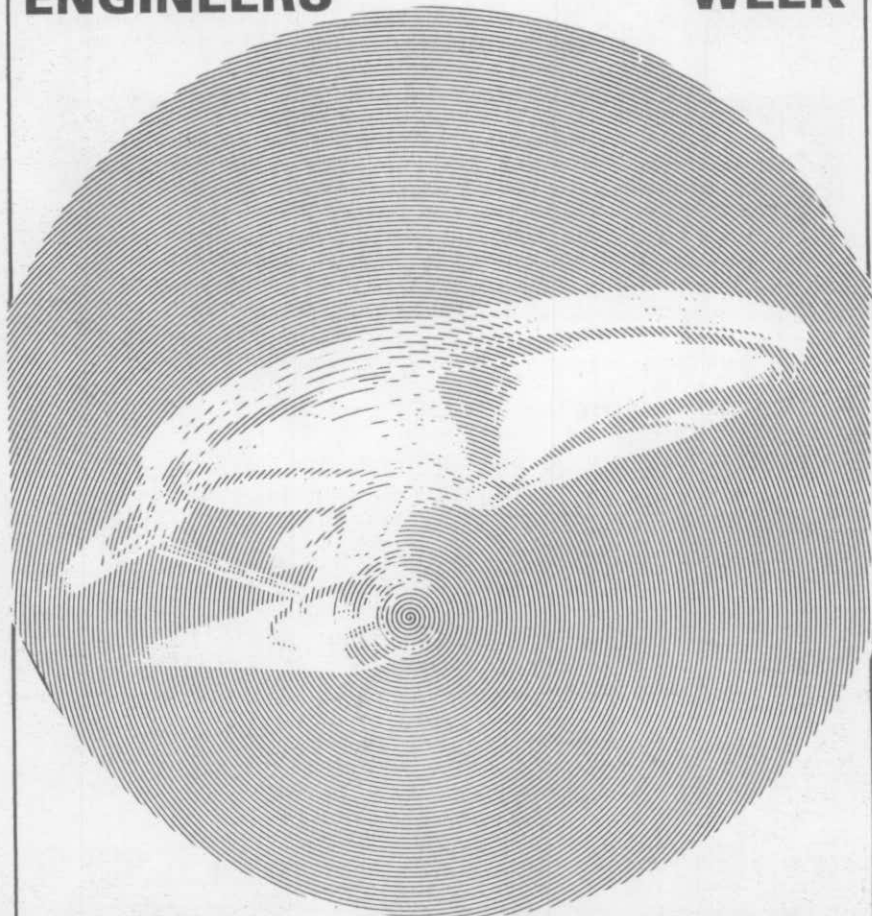


**ORLANDO
SECTION
NOTES**

VOLUME XIV
NUMBER 5
FEBRUARY 1980

ENGINEERS

WEEK

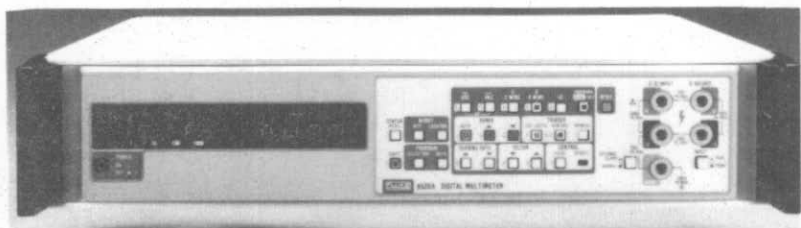


ANNUAL AWARDS BANQUET

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CHAIRMAN'S CORNER

The 1980 year should be a good one for the Orlando Section. In addition to the fine chapter meetings, some other interesting events to watch for in the coming few months are the Orlando Section Awards Banquet on February 16, the Engineer's Week February 17-23, Engineer's Fair by the students at University of Central Florida in Engineer's Week, the Central Florida Engineer's Week Banquet on February 23, a possible joint Orlando—Canaveral Sections meeting with a national speaker in March, the Computer tutorials at UCF March 24-26, one and possibly two short courses to be sponsored by your Section this Spring, and the annual Orlando Section banquet around June 1.

The Section is growing at a good rate with membership up to 745 at the end of November 1979. Congratulations and thanks to membership chairman Mannie Connell.

Be sure to attend the Section banquet on February 16 — for the good dinner and fellowship, the Chapter and Section Engineer-of-the-Year awards, and the talk on UFO's by Mr. Philip Klass which should be very interesting. See any of the Executive Committee members for tickets.

Ernest Erickson

MTT SOCIETY

The **MTT SOCIETY** is sponsoring a technical tour.

PLACE: WDBO
TIME: 8:00 P.M.
TRANSPORTATION: Bus leaves at 7:30 P.M. from Building #10 parking lot at Martin Marrietta
DATE: February 21, 1980

The **MTT SOCIETY** is also sponsoring a meeting:

PLACE: Hewlett Packard, 6177 Lake Ellenor Drive
 Orlando, FL 32809
TIME: To be announced
DATE: Thursday, March 20

COMPUTER SOCIETY

The **COMPUTER SOCIETY** is sponsoring a meeting on **March 26**. Dr. Slaton of Cornell will speak on "Information Retrieval." On **May 15** Dr. Hoffman will be the featured speaker of the Computer Society.

NATIONAL EN

IEEE ENGINEERS WEEK AWARD BANQUET

Date: Saturday - February 16, 1980
Time: 6:00 P.M. Cash Bar; 7:00 P.M. Dinner; 8:00 P.M. Program
Price: \$9.00 per person
Location: House of Beef, 801 John Young Parkway
Speaker: Mr. Philip J. Klass

Philip J. Klass is an internationally recognized authority on the subject of Unidentified Flying Objects (UFOs) and the author of two best-selling books on the subject, the most recent being "UFOs Explained" (Random House, 1974). Scientific American magazine in reviewing the latter book said: "There is no more explicit and insightful account of UFOs than this one."

Klass has personally investigated some of the most famous and challenging UFO cases on record during the more than 12 years he has been active in the field.

He is a graduate electrical engineer (Iowa State University), a Fellow in the Institute of Electrical and Electronic Engineers; his full-time occupation is senior avionics editor for Aviation Week & Space Technology magazine--often called the "Bible of the Aerospace Industry."

Klass is a Founding Fellow of the Committee for the Scientific Investigation of Claims of the Paranormal and chairman of its UFO Subcommittee.

The title of his lecture, which includes a question and answer period, is: "UFOs: Fact or Fantasy?"

.....

IEEE ENGINEERS WEEK AWARDS PROGRAM

QUALIFICATIONS

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

FORM OR NOMINATION AND SELECTION CRITERIA

The form of the nominations is left to the groups providing the nominations. It is to be emphasized, that nominations should be in 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 as the Chapter Engineer-of-the-Year and Section Nominee. Nominations should be addressed to the Awards Committee Chairman and are due to be received no later than January 5, 1980. The Awards Committee will be pleased to answer any questions that arise.

THE ELECTRICAL ENGINEER OF THE YEAR WILL BE SELECTED BY THE AWARDS COMMITTEE WHO WILL EVALUATE THE CANDIDATES

ENGINEERS WEEK

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 and in various activities of benefit to the Community and Society in general.(10)

PRESENTATION OF CANDIDATES AND AWARDS

Each nomination entity will provide a three minute introduction of their candidate. Each Chapter nominee will receive a framed certificate as Chapter Engineer-of-the-Year. The candidate selected as Central Florida Electrical Engineer of the Year will receive a plaque. No other plaques will be presented at this meeting.

JOINT MEETING NOTICE

**IEEE COMPUTER SOCIETY
IEEE COMMUNICATIONS SOCIETY**

DATE: Thursday, February 28, 1980
TIME: 7:00 P.M.
LOCATION: Federal Savings & Loan at corner of SR434 & SR436
*(tentative - see note)
SUBJECT: A Digital PBX Overview
SPEAKERS: S. L. Russell
D. S. Pierce
Stromberg-Carlson Corp.

ABSTRACT

This paper presents a description of the DBX-1200 and the newest member of the System Century® family, the DBX-5000. The architecture is set forth for both systems stressing the high degree of commonality that was achieved. Furthermore, the paper renders an account of the system test philosophy as well as embraces the means of hardware/software integration.

*NOTE: Those wishing to attend dinner with the speaker, before the meeting, or those just attending the meeting, should contact Ed Ellis at 339-1600 ext. 354, or 834-3319 no later than February 25.

MEETING NOTICE

POWER ENGINEERING SOCIETY AND INDUSTRIAL APPLICATIONS GROUP

TUESDAY, FEBRUARY 19, 1980

7:30 P.M.

- TOPIC:** Saving Energy in Industry
- SPEAKERS:** Paul Busby, Energy Coordinator
Martin Marietta Aerospace
Vernon Wright and Ron Walters
Honeywell Inc.
- LOCATION:** Florida Power Corporation
510 S. Park Ave.
(1 block north of Fairbanks)
Winter Park, Florida

Practical applications of reducing industrial energy consumption by means of existing products and technology will be the topic of this meeting. One item to be presented is the Honeywell Computerized Energy Management System which conserves energy by optimizing the operation of selected heating, ventilating, and air conditioning according to equipment, material, people, and time.

THE IEEE STUDENT CHAPTER

The IEEE Student Chapter at the University of Central Florida invites you to see their micro-computer display, other student displays and contests during the

ENGINEER'S FAIR
University of Central Florida
February 19 and 20, 1980

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Member-at-Large	Eugene V. Dashiell	859-2900	859-2497
Member-at-Large	James L. Gay	645-1510	644-7884
Member-at-Large	Jim Walter	351-9909	339-2071

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Student Computer	John Greer		

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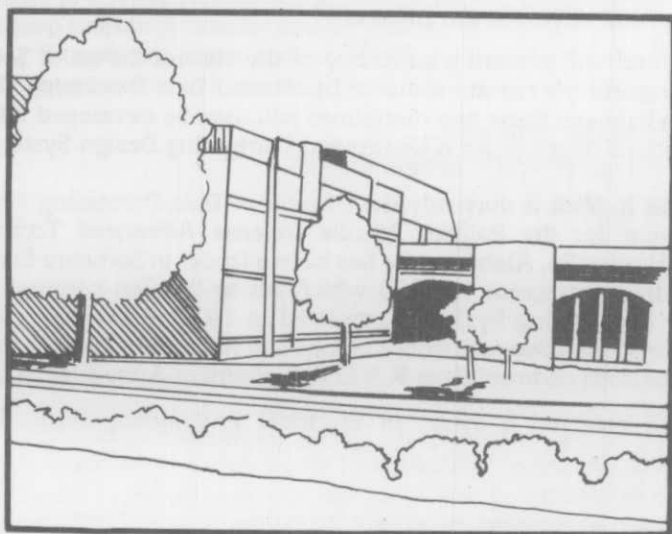
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IEEE Florida Computer Tutorials

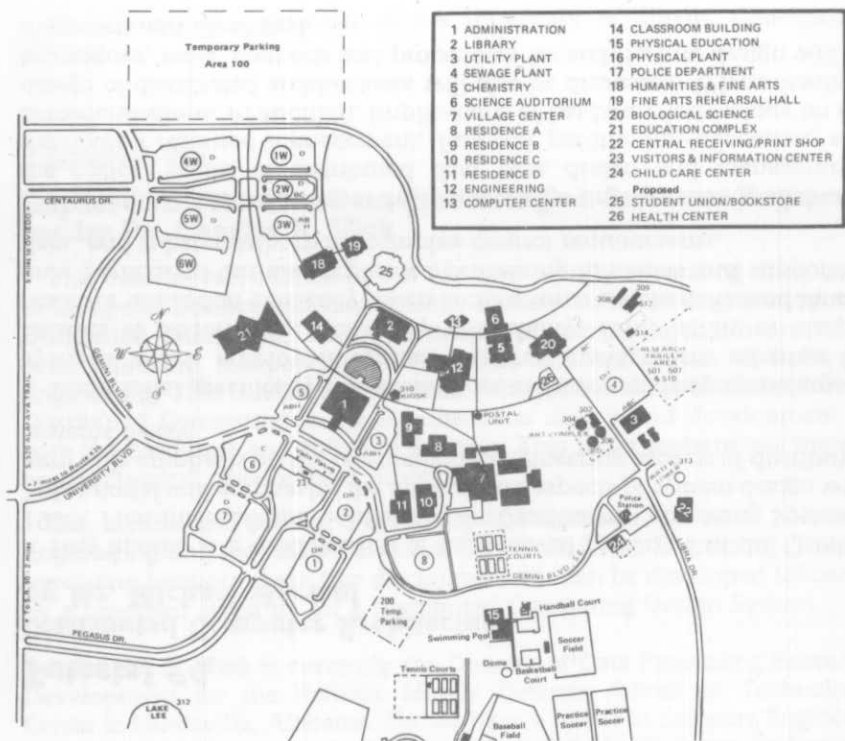
Monday, Tuesday, and Wednesday
March 24, 25, and 26, 1980



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Computer Society, Tutorial Program
Central Florida Chapter
University of Central Florida Student Chapter



IEEE Computer Tutorials Schedule

Monday, 24 March 1980

Tutorial #1
Introduction to PASCAL
Mr. A. Winsor Brown

Tutorial #4
Distributed Computer Architecture
Mr. Michael Mariani

Tuesday, 25 March 1980

Tutorial #2
ADA Language Evolution
Dr. Joseph Urban

Tutorial #5
Impact of Distributed Computers
Dr. Charles Vick

Wednesday, 25 March 1980

Tutorial #3
Introduction to Software Engineering
Dr. Joseph Urban

Tutorial #6
Data Base Management
Dr. Sakti Ghosh

Tutorial #1

Introduction to PASCAL by Mr. A. Winsor Brown

This IEEE Chapter Tutorial will present the rationale for and the current status of the programming language Pascal. The reasons for the language, the state of standards for, and implementations of Pascal will be presented. Exposure to the flavor, constructs, and capabilities of Pascal (readability, reliability, clarity, and portability) are the main goals of the tutorial. Time-ly books, articles, courses, and other sources of further information will be mentioned.

This tutorial will develop by audiovisual means an insight into the language Pascal. The on-line generation of programs will be used to communicate the essence of the Pascal language to the audience. The UCSD Pascal™ system will be introduced and discussed in the course of the presentation.

At the end of the session the participants should be able to analyze a piece of code and differentiate "true Pascal" from nonconforming Pascal-like code, or to recognize a Pascal program even if not so identified. They should also be able to read syntatic definitions of Pascal: EBNF, railroad diagrams, and a Pascal standard.

Mr. A. Winsor Brown works for General Automation, Inc. He has been a software engineer on the senior engineering technical staff since 1971. Prior to that, Mr. Brown worked for the Computer Research and Development group of the A.C. Electronics Division of General Motors. While at General Motors he also held a guest researcher position with the Max Planck Institute in Munich, West Germany.

Mr. Brown received the M.S. degree in Electrical Engineering from California Institute of Technology.

Tutorial #2

ADA Language Evolution by Dr. Joseph E. Urban

This tutorial is intended to familiarize the application programmer, the system programmer, and the software project manager with the Ada programming language effort. The objectives of this tutorial are to review the sequence of events prior to the development of Ada, discuss the "STEEL-MAN" requirements document, overview the Ada programming language, and provide insight into establishing a programming environment for Ada. Attendees should have a working knowledge of at least one high order programming language.

Dr. Joseph E. Urban is a special projects officer in software engineering at the U.S. Army Signal Center and Fort Gordon, Fort Gordon, Georgia and

College of Extended Studies
University of Central Florida
P.O. Box 25000
Orlando, FL 32792

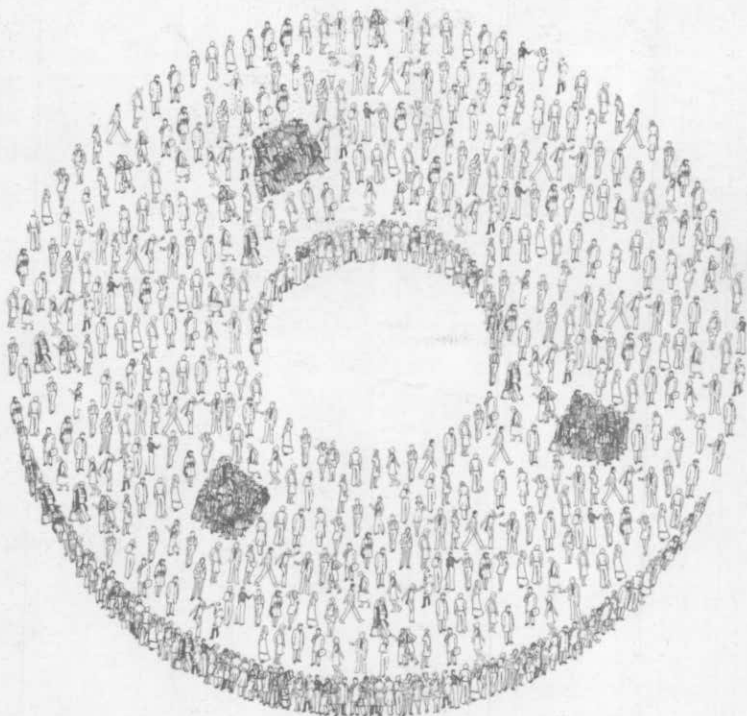
**IEEE Florida
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ORLANDO SECTION NOTES

VOLUME XIV
NUMBER 7
APRIL 1980



DATA SECURITY

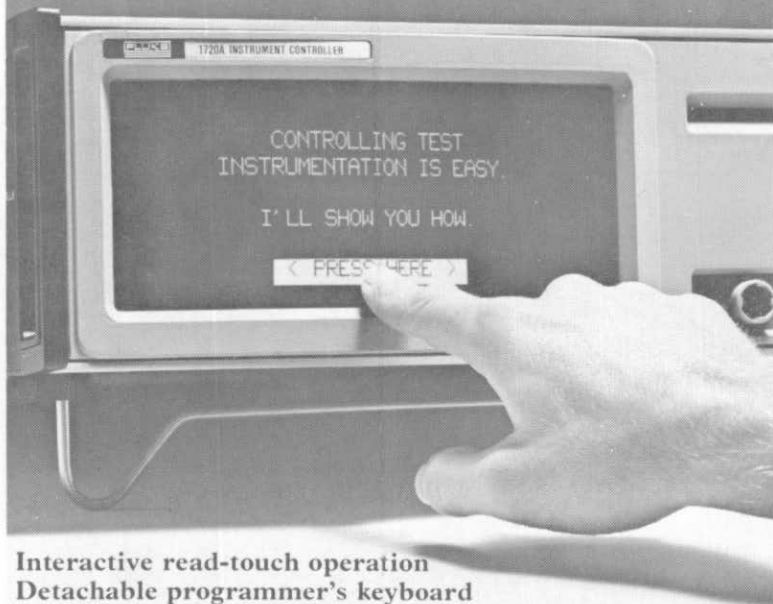
A topic of growing concern throughout the information and communications industry is addressed this month at a joint meeting of the Aerospace and Electronic Systems Society, Communications Society and Computer Society.


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CHAIRMAN'S CORNER

We enjoyed the IEEE Computer Tutorials held in March at the University of Central Florida and now we can look forward to the microprocessor short course to be sponsored by your IEEE Section in June. Look for details of the short course in this issue of Orlando Notes.

As a result of special efforts by George McClure, your Orlando Section has won the bid for the AUTOTESTCON '81. The SOUTHCON conference and exhibit is scheduled for the new Orange County Convention Center in January 1982. Russ Theisen will present a bid in Nashville on April 13-14 for the Region 3 SOUTHEASTCON '83 to be held in Orlando. Also it is possible that the IEEE Computer Society tutorial program will be in Orlando in 1981. I write this to alert you to the many opportunities such conferences, exhibits, tutorials and short courses offer to the members of the Orlando Section in professional development and involvement. There will also be many opportunities to serve and contribute to the success of such activities since they do require a lot of special manpower. Contact me or Conference Chairman George McClure if you are interested in assisting in anyway.

The several chapters in the Orlando Section will soon be electing officers for the new year. Here is a wonderful opportunity for members to become more active in their chapter and their profession. Get into the action—you'll enjoy it.

Ernest Erickson
Chairman



COMPUTER SOCIETY NOMINATIONS

Officer Nominations for 1980-1981 have been selected by the society nominating committee as follows:

- Joe Massett - Chairman, Martin Marietta
- Bill Towles - Program Chairman, Martin Marietta
- Gerry White - Membership Chairman, NTEC
- George Kirby - Secretary, NTEC

Nominations will be taken from the floor and elections will be held at the May meeting.

**IEEE PROFESSIONAL COMMUNICATION SOCIETY
OFFERS PROVEN HOME-STUDY WRITING COURSE**

Over 250 engineers and other technical specialists have enrolled in the PCS-sponsored home-study writing course since its inception in late 1977. This course, entitled "Technically-Write!" and developed by Ronald S. Blicq, is specifically structured for engineers and scientists who want to master the communication techniques essential to their career advancement.

Each student who enrolls in this home-study course is assigned to an instructor who is experienced in the communication field. Students mail completed assignments to their individual instructor who appraises their work and returns practical comments. This personalized attention and easy-paced teaching approach is structured to help individuals with undeveloped writing skills advance rapidly to confident control of various communication techniques.

Eleven "information packages" cover such topics as technical reports, letter writing, job and project descriptions, resumes, and technical articles. Students learn how to recognize communications that may be ignored or misinterpreted, as well as how to write to get the desired attention or action. The course usually requires 3 to 4 months to complete.

Those interested in enrolling in this course may do so by contacting the IEEE Continuing Education, 445 Hoes Lane, Piscataway, NJ 08854. The price for IEEE members is \$125.00, while the price for non-members is \$175.00. The cost of such a course is often borne by the student's company, and is almost always considered to be a tax-deductible expense.

ADVANCED MEETING NOTICE

COMPUTER SOCIETY

SUBJECT: MICROPROCESSOR ARCHITECTURES
SPEAKER: Dr. Hoffman
DATE: May 15, 1980
TIME: 7:00 P.M.
PLACE: Orlando Public Library Auditorium
10N. Rosalind Ave.
Downtown Orlando

Officer elections for the 1980 — 1981 year will be held at this meeting.

MICROCOMPUTER SYSTEMS DESIGN WORKSHOP

sponsored by
THE ORLANDO SECTION OF IEEE
and
THE UNIVERSITY OF CENTRAL FLORIDA

- Date & Time:** June 5, 6, & 7, 1980: 8:00 A.M. to 5 P.M.
- Location:** UCF South Orlando Campus, 7300 Lake Ellenor Drive, in Orlando Central Park
- Phone No.:** (305) 275-2123
- Objective:** Provide for practicing engineers or educators an introduction to the "INTEL 8080,85" family of Microcomputers; including their operation, architecture, and applications. The newer 16 bit 8086 will also be discussed.
- Intended for:** Engineers with little or no previous microcomputer experience.

Lectures and "hands-on" lab work covering:

- | | |
|---------------------------|-------------------------|
| 1. Fundamentals | 5. Interfacing the 8080 |
| 2. 8080 Assy. Language | 6. 8080 Components |
| 3. MDS Development System | 7. 8085 Microcomputers |
| 4. Software Use & Tools | 8. 8086 Microcomputers |

Instructors: Dr. Ed Page and Dr. John N. Gaudy

Application & Fee: Mail to UCF College of Extended Studies;
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(24 CEU's, can cancel up to 5 days before course)

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MAIL OR CALL ASAP - Enrollment cap is 40	

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Barbeque			
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Member-at-Large	James L. Gay	645-1510	644-7884
Member-at-Large	Jim Walter	351-9909	339-2071

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	V.Chmn.	Geoffrey E. Dick	352-4624	678-0979
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	Secy.	Steven Gray	352-3724	
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Student Computer		John Greer		

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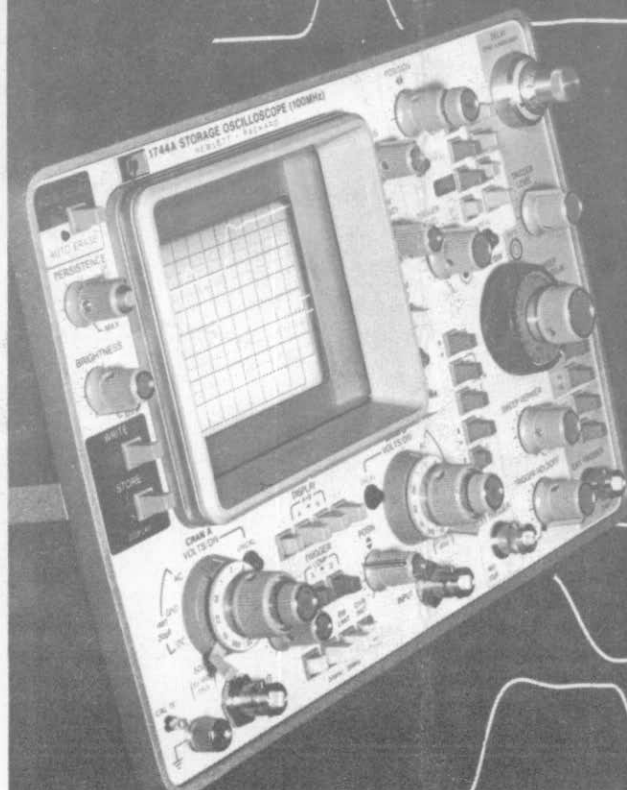
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**VOLUME XIV
NUMBER 8
MAY 1980**

**JUNE BANQUET
and
OFFICER INSTALLATIONS**

Featuring

ANNE GEHMAN

Speaking on

PSYCHIC SCIENCE

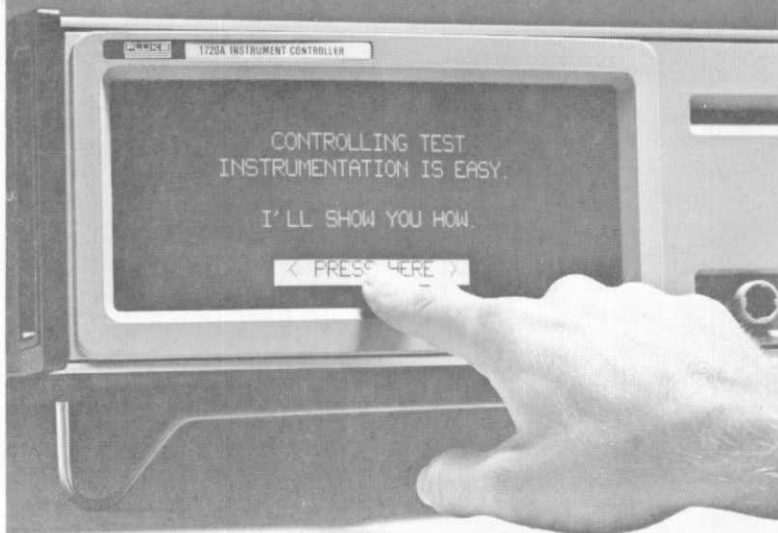
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Details on page 6

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Chairman's Corner

IN MEMORY OF

We are saddened by the death of Dr. Ed McCarter who was drowned in a boating mishap in the Gulf of Mexico on Sunday, March 30, 1980. Ed was formerly at the University of Central Florida as a Professor in Electrical Engineering. He was very active in the local IEEE affairs and served as Chairman of the Orlando Section in 1976-77.

There were no other nominees for the Section Offices. In accordance with section 045 of the Orlando Section By-laws, the chairman of the Elections Committee has cast a unanimous vote on behalf of the membership for the slate of officers announced in last month's Orlando NOTES. Our thanks to the Election Committee: Fred Simons (Chairman), Charles Curley and Bill Cram. Congratulations to the newly elected offices:

Chairman — George F. McClure
Vice-Chairman — Benjamin W. Patz
Secretary — David Flinchbaugh
Treasurer — Mannie Connell

They will be officially installed in their respective offices at the IEEE Banquet to be held at the House of Beef on Friday, June 6, 1980. See a member of the Executive Committee for your tickets.

Please note the announcements in this issue about the Microprocessor Course to be in Orlando on June 5-7, 1980 and the "Call for Sessions" for SOUTHCON/81 to be held in Atlanta on January 13-15, 1981.

Ernest Erickson
Chairman



COMMUNICATIONS SOCIETY NOMINATIONS

Officer Nominations for 1980-1981 have been selected by the Society nominating committee as follows:

Don Mendorf - Chairman, Stromberg Carlson
Bob Amend - Vice Chairman, Southern Bell
George Taack - Secretary, Stromberg Carlson

Nominations will be accepted from the floor and elections will be held at the May meeting.

MTT—SOCIETY MEETING NOTICE

- TOPIC:** WEATHER PERFORMANCE PROJECTION
FOR RF, IR AND OPTICAL SYSTEMS
- SPEAKER:** Fred P. Wilcox, Member, Professional Staff
Martin Marietta Aerospace
- DATE:** Tuesday, May 20, 1980
- PLACE:** UCF, South Orlando, Room 104,
7300 Lake Ellenor Drive, Orlando
- COCKTAILS
AND DINNER:** 5:30 P.M. at Gary's Duck Inn Restaurant
3974 South Orange Blossom Trail

Abstract

The selection of an optimum operating frequency must be partially based on system performance in adverse weather conditions. This talk will present weather performance projections for systems operating in the microwave, infrared and optical regions and will describe methods for calculating attenuation and backscatter in rain and fog. Laws and Parsons drop size distribution will be used for calculating attenuation and backscatter. To demonstrate the usefulness of this analytical tool the results and measured data will be compared.

FRED P. WILCOX received a BSEE degree from the University of California, Berkeley and MSE degree from Arizona State University. He is presently involved in the design, development and promotion of millimeter wave radar for both fire control and seeker applications.

Prior to his employment with Martin Marietta, Mr. Wilcox spent sixteen years with Goodyear Aerospace in the advanced concepts group where he was intimately involved in the design and development of advanced synthetic aperture radar systems and in millimeter wave radar design, development and application. He has conducted analysis and made predictions on many conceptual radar designs and directed the design, fabrication and test of a 95 GHz imaging radar.

For further information, please contact your chapter officers.

Chairman:	Secretary:
Dr. Deen Khandelwal	Steven Gray
352-2483	352-4560

Elections for new officers of MTT-S chapter will be held at this meeting.

MICROCOMPUTER SYSTEMS DESIGN WORKSHOP

sponsored by
THE ORLANDO SECTION OF IEEE
and
THE UNIVERSITY OF CENTRAL FLORIDA

- Date & Time:** June 5, 6, & 7, 1980: 8:00 A.M. to 5 P.M.
- Location:** UCF South Orlando Campus, 7300 Lake Ellenor Drive,
in Orlando Central Park
- Phone No.:** (305) 275-2123
- Objective:** Provide for practicing engineers or educators an introduction to the "INTEL 8080,85" family of Microcomputers; including their operation, architecture, and applications. The newer 16 bit 8086 will also be discussed.
- Intended for:** Engineers with little or no previous microcomputer experience.
- Lectures and "hands-on" lab work covering:**
- | | |
|---------------------------|-------------------------|
| 1. Fundamentals | 5. Interfacing the 8080 |
| 2. 8080 Assy. Language | 6. 8080 Components |
| 3. MDS Development System | 7. 8085 Microcomputers |
| 4. Software Use & Tools | 8. 8086 Microcomputers |
- Instructors:** Dr. Ed Page and Dr. John N. Gaudy
- Application & Fee:** Mail to UCF College of Extended Studies;
P. O. Box 25000, Orlando, FL 32816

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JUNE BANQUET & OFFICER INSTALLATIONS

ANNE GEHMAN ON PSYCHIC SCIENCE

The Orlando Section's June 6 Dinner Meeting will feature a presentation on the science of psychic phenomena by Anne Gehman. Miss Gehman, recently elected to the International Congress of Parapsychologists and Paraphysicists in Prague, Czechoslovakia, founded the Spiritual Research Society and the Anne Gehman Institute for Advancement of Psychic Science. In addition to teaching parapsychology in two Central Florida colleges, she hosts a radio show on WSIR in Winter Haven. She is also a special consultant on the staff of the International Detective Agency headquartered in Daytona Beach with offices throughout the United States and many foreign countries, and she has been an advisor to numerous well known businessmen and political figures, including William Keeler, retired chairman of the board of Phillip 66.

Miss Gehman's psychic acumen is described in Harold Sherman's book "You Can Communicate with the Unseen World — as Demonstrated by Anne Gehman" and has been heralded in Jess Sterns' "Adventures into the Psychic" and "Miracle Workers". She has been the subject of full feature articles in Sunday magazine sections of newspapers across the Nation as well as features in Life, Time, and American Mercury.

Miss Gehman has received recognition in locating missing people and in solving numerous crimes, many of which have made headlines in National papers. She correctly predicted the Kennedy assassinations, Jackie Kennedy's marriage to Aristotle Onassis, presidential elections, sports events, scandal in government, and the resignations of President Nixon and Vice President Agnew. Her ability to see the aura and detect physical and emotional disorders has brought recognition in the field of medicine.

- DATE:** Friday, June 6, 1980
- place:** House of Beef
- COST:** \$9.50/person
- TIME:** 6:00 PM Cash Bar
7:00 PM Dinner
8:00 PM Program
- LOCATION:** 3200 W. Colonial Drive
- TICKETS:** May be obtained from Executive Committee members

MEETING NOTICE COMPUTER SOCIETY

SUBJECT: MICROPROCESSOR ARCHITECTURES
SPEAKER: Dr. Hoffman — George Washington University
DATE: May 15, 1980
TIME: 7:00 P.M.

PLACE: Orlando Public Library Auditorium
10 N. Rosalind Ave.
Downtown Orlando

Officer elections for the 1980 — 1981 year will be held at this meeting.



IEEE DUES INCREASE LIKELY FOR 1981

NEW YORK CITY--An increase in the basic \$35 annual dues of between four and eight dollars is being considered for 1981 by The Institute of Electrical and Electronics Engineers (IEEE). The Board of Directors is acting on the recommendations of a task force which prepared a dues management plan that included a broad range of fiscal policies of the organization.

A specific recommendation on 1981 dues will be made at the August meeting of the Board.

ORLANDO SECTION TO HOST SOUTHEASTCON '83

The Orlando Section extended an invitation to sponsor SOUTHEASTCON '83 in response to a last minute call by the Region 3 Executive Committee. The invitation was engineered by Russell Theisen, Chairman, SOUTHEASTCON '83 Committee. Mr. Theisen presented the invitation at SOUTHEASTCON '80, April 13th in Nashville, Tennessee. Also assisting in that presentation was Ms. Dale Encinosa representing the Sheraton-Twin Towers in Orlando. Mr. Theisen was successful in winning approval of the Orlando Section invitation, satisfying the Region 3 Executive Committees requirements for a capability to put on a first class conference.

The details of the proposal are given below:

HOST: The Orlando Section along with student branches located at the University of Central Florida will host the respective conference.

LOCATION: The meetings and exhibits will be held at the Sheraton Twin Towers Convention Complex Orlando, Florida. The Sheraton Twin Towers is located 15 minutes from Disney World.

DATE: The proposed date is April 11-14, 1983 (M-W).

TRANSPORTATION: Orlando is easily reached by private automobile, airline or bus. The major airlines are Eastern, Delta, Republic, National, TWA, United, Brantiff, Air Florida, Western, and others at the Orlando International Jet Port which will have undergone a \$165 million dollar expansion by 1982. All major auto rental agencies service the Orlando Jetport and there is regular scheduled limousine service from the Jetport to the major hotels including the Sheraton Twin Towers, which will serve as SOUTHEASTCON 83 Headquarters.

FINANCES: The Orlando Section proposes to share expenses and proceeds on a 50-50 basis with the Region.

Conference Record: The cost of printing services offered by IEEE headquarters will be compared with that of local firms. A decision will be made on the basis of economics.

LODGING: Seven hundred (700) rooms are available at the Orlando Sheraton Twin Towers, which will serve as SOUTHEASTCON 83 Headquarters. There are 20 meeting rooms and 23,712 square feet of exhibit space with overflow of approximately (900) rooms within a few blocks. The projected rate for the rooms is \$50 00/per night with present rates at \$28.00/night.

Conference Organization: A detailed organizational structure will be developed immediately following our award of SOUTHEASTCON 83.

NOTE OF THANKS TO THE STUDENTS

The Orlando Section extends its appreciation to the Student Chapter of IEEE at the University of Central Florida for their excellent assistance in putting on the IEEE Florida Computer Tutorials held in March. The Tutorials could not have been successful without their work.



MEMBERSHIP DRIVE

You can increase your participation in IEEE and receive those publications you've been wanting at a reduced cost. Join an IEEE group or society now and take advantage of the half year rate of 50 percent off the regular fee.

Orlando Section Member, Russell Theisen, Attend White House Briefing

Russell Theisen attended the White House briefing on Technology, April 2, 1980, as one of the thirty key technological leaders invited to review the proposed information and handling plans for both the executive and congressional branches of the government. Some of Mr. Theisen's activities in Washington are listed below:

Receive briefing on plans to modernize Executive and Congressional information handling methodologies.

Provide expertise in solving problems related to information processing.

Evaluate the plans and suggest improvements prior to government guidelines publications.

Attend American Federation of Information Processing Societies, Inc. (AFIPS) Executive meeting and reception in Washington, D.C.

Following his White House briefing on technology, Mr. Theisen offered some of his analysis of the proceedings as indicated below.

The U.S. Government has realized the need for utilizing computer technology and information processing methodologies to increase the efficiency and effectivity of the Executive Office operation.

The governmental agencies are turning to the technological leaders for expertise in solving the nations communications and information processing problems.

The Executive and Congressional Offices are attempting to utilize the recent technology in Very Available Smart Items (VASI) to increase productivity by 17% to 20%.

Top Government officials realize the important contributions that are made by technical organizations such as IEEE and AFIPS. They are seeking the advice and expertise of Professional and Technical Organizations in selecting the proper tools needed to solve the nations problems.

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Secretary	Dr. Benjamin W. Patz	275-2786	855-3685
Treasurer	Dr. Dave Flinchbaugh	1-867-4283	859-4855
Society Chapter Rep.	Mannie Connell	671-0470	273-8588

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Member-at-Large	James L. Gay	645-1510	644-7884
Member-at-Large	Jim Walter	351-9909	339-2071

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	Membership V.Chmn.	Joe Massett	532-4014	834-3448
	Secy.	George Kirby	273-4891	862-9892
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Microwave	Chmn.	Dr. Deen Khandelwal	352-2483	277-5959
	Th. & Tech.	Secy.	Steven Gray	352-3724
VT	Chmn.	Melvin C. Kelch	843-8484	859-1533
	Secy.	Herbert J. Zwarra		339-1894
Students	Chmn.	Tom Downs		299-0618
Prof. Activities	Chmn.	Dr. Dave Flinchbaugh	1-867-4283	859-4855
Student Computer		John Greer		

Please send changes and updates to Ben Patz, 695 Gatlin Avenue, Orlando, FL 32806 (see above phones).

The ExCom meets the 1st Tuesday of the month at 7300 Lake Ellenor Dr., Room 104. Members are welcome to attend.

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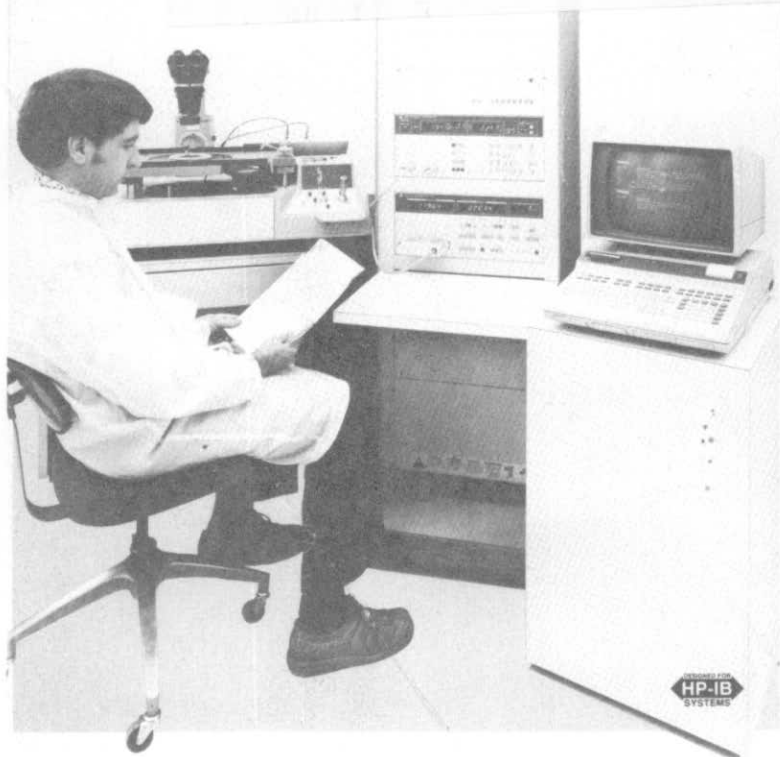
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NUMBER 9
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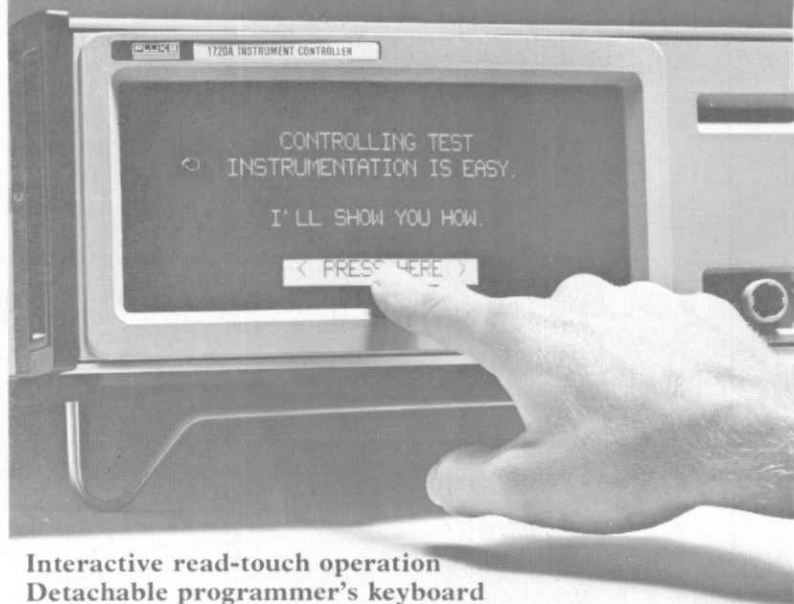
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June 5, 6, & 7th, 1980
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(see details inside)

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Chairman's Corner

To enjoy a good presentation on psychic science by Anne Gehman, be sure to attend the Officers Installation Banquet on June 6 at the House of Beef. Student awards and the Outstanding Service Award will also be presented.

This is my last Chairman's Corner. On review of the past administrative year, I believe it was a good one despite some problems. I thank the dedicated workers on the executive committee. Through the individual and collective efforts of committee members, we became involved in the IEEE elections, had a good (best steaks) Barbeque and Dance in December, an overflow attendance at the Engineer's Week Awards Banquet in February with Philip Klass speaking on UFO's, very successful Computer Tutorials in March, and coming are the Officers Installation Banquet with Anne Gehman as speaker on June 6 and the Microcomputer Shortcourse June 5-7. Through the efforts primarily of George McClure, Ben Patz and Russ Theison the following conferences have been secured for the Orlando area: AutoTestCon in 1981, National Computer Society Tutorials in 1981, the new SouthCon in 1982, Region 3 SoutheastCon in 1983 and Florida Eclectic in 1981 or 1982. More short courses will be offered in the coming year. The Executive Committee accomplished much for you during the past year. Let your new Section officers know what you would like in the Section in the future.

There were many good technical programs presented by the several chapters of the Orlando Section. Through the efforts primarily of Deen Khandelwal, a chapter of the Electron Devices Society will be chartered soon. I call on those who have served so well in the chapters to now serve the Section on the Executive Committee. Contact George McClure, the new Section chairman.

Thanks for allowing me to serve as your chairman.

Ernest Erickson
Section Chairman

JUNE BANQUET & OFFICER INSTALLATIONS

DATE: Friday, June 6, 1980
place; House of Beef
COST: \$9.50/person
TIME: 6:00 PM Cash Bar
7:00 PM Dinner
8:00 PM Program
LOCATION: 3200 W. Colonial Drive
TICKETS: May be obtained from Executive Committee members



IN SEARCH OF ----- ELECTRON DEVICES SOCIETY MEMBERS

A local chapter of the Electron Devices Society is being organized under the guidance of Dr. Dean Khandelwal. In March of this year Dr. Khandelwal presented a petition to the Orlando Section Executive Committee for the establishment of an Electron Devices Society Chapter. The petition, signed by twelve members of the Electron Devices Society, was then submitted to the IEEE headquarters and the national society officers.\$

Dr. Khandelwal has been informed by IEEE headquarters that two more signatures of Electron Devices Society members will be required for final approval of the local chapter. If you are a member of the Electron Devices Society and have not yet signed the petition, please call Dr. Khandelwal at 352-2483 (office) or 277-5959 (residence) to arrange for a signing of the petition.

MICROCOMPUTER SYSTEMS DESIGN WORKSHOP

sponsored by
THE ORLANDO SECTION OF IEEE
and
THE UNIVERSITY OF CENTRAL FLORIDA

Date & Time: June 5, 6, & 7, 1980: 8:00 A.M. to 5 P.M.

Location: UCF South Orlando Campus, 7300 Lake Ellenor Drive,
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Phone No : (305) 275-2123

Objective: Provide for practicing engineers or educators an introduction to the "INTEL 8080,85" family of Microcomputers; including their operation, architecture, and applications. The newer 16 bit 8086 will also be discussed.

Intended for: Engineers with little or no previous microcomputer experience.

Lectures and "hands-on" lab work covering:

- | | |
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| 1. Fundamentals | 5. Interfacing the 8080 |
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| 4. Software Use & Tools | 8. 8086 Microcomputers |

Instructors: Dr. Ed Page and Dr. John N. Gaudy

Application & Fee: Mail to UCF College of Extended Studies;
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IEEE COMMUNICATIONS SOCIETY MEETING NOTICE

TIME 7:30 P.M., Wednesday, June 4, 1980

LOCATION: Florida Power Corp., 510 S. Park Avenue, Winter Park, FL
(1 block north of Fairbanks)

SPEAKER: David Hemming Manager, Advanced Planning and Development
Harris Corp., Melbourne, Florida

TOPIC: Lightwave Telecommunications

Included in this presentation will be telephony applications at T3 and T4 rates (45 and 274 Mb/s), and the Martin Marietta CADAM system optical link between their Data Systems Division and Aerospace Division at Orlando Central Park.

Those wishing to attend dinner with the speaker before the meeting should contact Wanda Sarles at 339-1600, extension 138, no later than May 30.

Election of officers will be held at this meeting. Nominees are: Don Mendorf—Chairman, Bob Amend—Vice Chairman, and George Taack—Secretary.

ATTEND SOUTHCON MICROCOMPUTER WORKSHOP

Planning for SOUTHCON is well under way. It is a new electronic show and conference featuring an outstanding technical program and large exhibition of high technology, applications oriented original equipment.

SOUTHCON will alternate between Atlanta and Orlando with the first conference in Atlanta on January 13-15, 1981. It will be held in the World Congress Center where 152,000 square feet have been reserved. Some 1400 rooms have been blocked out in key downtown hotels.

Region 3, the Florida Council and the Atlanta Section are the IEEE sponsors. The Electronic Representatives Association are also sponsors who will be primarily involved with the exhibits.

Dr. Joe Pettit, President of Georgia Tech and an IEEE Fellow, is the conference chairman.

If you are interested in the technical program call for sessions, exhibits prospectus, promotional material or would like to volunteer in a particular area, please call SOUTHCON at 404-938-2469 or write to SOUTHCON, 2200 Parklake Drive, Atlanta, Georgia 30345.

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