
PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONICS ENGINEERS
**1973/1974 Executive Committee**

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<td>George McClure</td>
<td>841-1230</td>
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<td>Wendall Dixon</td>
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<td>John Tracy</td>
<td>855-6100x4245</td>
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<td>IEEE-FES Liaison</td>
<td>Mel Taylor</td>
<td>855-6100x2859</td>
<td>851-2082</td>
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<td>Walter L. Eiden</td>
<td>855-6100x4127</td>
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*Members of Executive Board

Reminder! The Executive committee meets the first Wednesday of the month. This is an open meeting and ALL members are invited to attend.
Chairman's Corner

At the September 5 Executive Committee meeting the following points or action was taken.

1. A Bylaws Committee was established for the purpose of reviewing and updating the Orlando Section Bylaws. Following their approval, the new Bylaws will be published in the "Section Notes" for the general membership's information. To the best of my knowledge, the general membership has never had a copy of our Bylaws. This may be somewhat expensive, but you should be made aware of how your section operates. Members of this committee are: Joe Pullara, Chairman; Walter Elden, John Tracy, and Jim Walter.

2. Located herein is this year's approved budget. Any questions you may have regarding the budget and its areas of concern may be directed to any of the Executive Committee members for explanation. If your question is not answered satisfactorily, please call your Chairman.

3. Orlando Section membership currently consists of 596 members.
   - 11 - Fellow Members
   - 428 - Members
   - 90 - Senior Members
   - 25 - Student Members
   Members of this section are from Orange, Osceola, Seminole and Lake counties.

4. Group chairmen were reminded by the Awards Chairman, Jim Walters to start thinking about their group's "Engineer of the Year" candidate.

5. The Orlando Section's Annual Barbecue Chairman, Ken Kaplan would like to have four or five co-workers to help handle the details of this affair. This is a good opportunity for those of you who would like to become a part of the Executive Committee and learn the organization "from the light side", thus working into more responsible positions the following year. You can make this an enjoyable event if a number of you would call Ken and help your section by becoming better known and moving into other activities and responsibilities.

I hope to see all of you at the October 19 Section Meeting. Tickets for this event may be obtained from any of the Executive Committee Members or by calling Mr. Royer at 628-3419.

Karl L. Lohman
Chairman
A Brief Explanation of Section Programs 1973-74
Kenneth E. Kaplen
Program Chairman

Because the Orlando Section has introduced innovative methods of program methods of program scheduling and facilities arrangement, a small but vocal group of members has repeatedly requested clarification of "all these new-fangled ideas." I hope that this treatise clears up the questions of the few without causing confusion among the many.

1. From October 1973 through June 1974 (nine months) nine dates have been selected for meeting nights of the Section, or of the various Technical Activity Groups, or of both. All Section meetings will be held on these nights; it is hoped that all group chapter meetings will also be held on these nights.

2. The Howard Johnson's Convention Center can be shared by group chapters regardless of whether the Section has scheduled a meeting that night.

3. Section functions will take three forms:
   a. Special functions such as the January Barbeque and the June Banquet;
   b. Section speakers such as Paula Hawkins in October and TBA in February's and
   c. Technical Sessions in November, December, March, and April. A Tech Session is a sales presentation by a vendor who also sponsors the cocktail hours. That's right — drinks on the Session Sponsor. November's sponsor is Hewlett-Packard.

4. If there are any further questions, please refer to the schedule in this issue, or call me.
Chairman: Russe Theisen

COMPUTER SOCIETY
October 19, 1973

SUBJECT
Computers used in Telecommunication
Switching Systems and Data Systems
of The Future

SPEAKERS
Representatives of Northern Telecom Inc.
Boston, Mass.

All meetings are following our main Section meeting.

P.E./E.I.T. Refresher Course
The review course for the P.E./E.I.T. exam will start on Tuesday, Nov. 13, at 6:00 p.m. at FTU campus, Room 360, Engineering Building. This course will continue on succeeding Tuesday nights. For information contact:
Dr. David Block  Tel. 275-2156
FTU
P. O. Box 25000
Orlando, Florida
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<td>NOVEMBER</td>
<td>Tech Session Friday 14th</td>
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<td>TechSession</td>
<td>X-mas special</td>
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<td>Ladies program</td>
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<td>Friday 19th</td>
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<td>CT – Thurs 18th</td>
<td>AES – MTI - 6th</td>
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<td>JANUARY</td>
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<td>B-B-Q!!!!!!</td>
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<td>Friday of Engineers week</td>
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<td>Ladies Program</td>
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<td>Easter Special Friday 19th</td>
<td>Groups</td>
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<td>Friday 17th</td>
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MEETING NOTICE

Thursday, October 18, 1973
Telephone Planning for Emergency Medical
Communications for Orange County
By Craig Spearman
Southern Bell Telephone Company

ABOUT THE PROGRAM

Mr. Spearman will discuss the telephone plans and system design projected to provide for a coordinated medical emergency dispatch center serving Orange County. With the cooperation of Florida Telephone and Winter Park Telephone, the system will provide a single 7-digit number to be used from anywhere in the county to request medical assistance, to be followed by a county-wide ‘911’ capability.

ABOUT THE SPEAKER

Mr. Spearman has been District Manager for Southern Bell in Orlando since February 1973. Prior to that time he was District Manager for Brevard County.

MEETING PLACE

Holiday Inn-South, 4048 South Orange Blossom Trail
Cocktails: 6:30 - 7:00
Dinner: 7:00 -8:00
Program: 8:00
Cost: $5.75 includes Tax & Tip

Please make reservations by calling Mrs. Rita Geringswald, 855-6100 Ext. 2310, prior to October 16, 1973.
ADVANCE NOTICE

JOINT MEETING

Aerospace and Electronic Systems, G-10
And
Microwave Theory and Techniques, G-17
Thursday, 8 November 1973

Social 6:00 P.M., Dinner 6:30 P.M.
Gold Key Inn
7100 S. Orange Blossom Tr.

Meeting 8:00 P.M.
Hewlett-Packard Bldg.
6177 Lake Ellenor Dr.

"Reliable Solid State Microwave Power Sources
For Application to Military Phased Array Radars"
Dr. John L. Allen
National MTT Lecturer of the Year
Associate Director of Research for Electronics
NRL
IEEE – ORLANDO SECTION
APPROVED BUDGET FOR
(July 1, 1973 to June 30, 1974)

1973-1974 BUDGET

A. MAILING COSTS

1. Orlando Section Notes $ 150.00
2. Miscellaneous 25.00
$ 175.00

B. ORLANDO SECTION NOTES $ 250.00

C. GROUP BUDGETS

1. Aerospace & Electronic Systems $ 50.00
2. Electronic Computer 50.00
3. Microwave Theory and Techniques 50.00
4. Communications Technology 50.00
5. Professional Activities Committee 50.00
$ 300.00

D. ENGINEER'S WEEK & IEEE AWARDS $ 200.00

E. CONTRIBUTION TO STUDENT ACTIVITIES $ 50.00
(Regional III Conference)

F. ANNUAL BANQUET $ 200.00

G. ANNUAL BARBECUE $ 150.00

H. MISCELLANEOUS $ 313.00

I. STUDENT ACTIVITIES
Student Chapter $ 100.00
Meal Reimbursement 100.00
$ 200.00

J. SECTION PROGRAMS $ 75.00

TOTAL $ 1,913.00

ESTIMATED REBATE INCOME $ 1,913.00

PROPOSED BALANCED BUDGET
AES-MTT SOCIETY MEETING
OCTOBER 19, 1973

SPEAKER
Mr. Sam Hartin, Leader of the Microcircuits Application Engineering Group, Orlando Division, Martin Marietta.

SUBJECT
The Role of the Electronic Circuit Designer in Hybrid Microelectronics Applications.

Mr. Hartin's presentation includes a film "Small World" which shows the typical facilities and methods used for developmental units and model shop quantities of new hybrid microcircuits. His discussion covers some of the challenging new ways in which a circuit engineer must participate in electronic system implementation to make effective use of new technology.

Mr. Hartin received his B.S.E.E. and MSEE. from Auburn University. He has spent more than a decade in circuit development work for Texas Instruments and Martin-Marietta and has been Group Leader in Microelectronics Applications at Martin since 1969.

MEETING PLACE
Howard Johnson Convention Center
Lee Road at I-4, Winter Park, Fla.

Cost: $7.25 per person, Advance
$7.50 at Door

Tickets: Contact group chapter or Section Officers.
LOW FREQUENCY NETWORK ANALYSIS
DOWN TO 1 HZ WITH CALCULATOR CONTROL

New 1 Hz to 13 MHz system cuts cost of theoretical analysis and physical network measurements.

Ideal for low-frequency analysis, a new low-cost instrument system for amplitude and phase measurements has a frequency range from 13 MHz down to 1 Hz. This Hewlett-Packard Model 3043A Low Frequency Network Analyzer consists of a Model 3320B Frequency Synthesizer, Model 3575A Gain-Phase Meter and a Model 9820A Desktop Calculator.

Now a designer can create and analyze a circuit using calculator network analysis programs and compare the physical circuit to his theoretical using this network analyzer system.

The Model 9820A calculator controls the instruments, eliminating manual setting of controls. In addition, data from the network analyzer is processed, then displayed in a form useable by the user directly.

Program language is easy to learn, even without previous computer programming training. Diagnostics, also in conversational language, are easy to understand.

An electrical engineering software pack is available with programs including attenuator design, transfer functions, component design and logic circuits.

FOR INFORMATION CALL OR WRITE

HEWLETT PACKARD
6177 Lake Ellenor Dr.
Orlando, Florida 32809
305/859-2900
Central Florida
ELECTRICAL ENGINEER OF THE YEAR

TO BE AWARDED AT THE "ENGINEERS WEEK" DINNER MEETING

February 23, 1974
Social Hour: 6:00 p.m
Steak Dinner: 7:00 p.m.

Downtowner Motor Inn
264 S. Orange Avenue
$5.00 per person

PUBLISHED BY ORLANDO SECTION
INSTITUTE OF
ELECTRICAL AND ELECTRONICS ENGINEERS
CHAIRMAN'S CORNER

Jim Walter's Awards Committee is in the process of selecting the Orlando Section's "Central Florida Electrical Engineer of the Year" from the nominations received.

The recipient of this distinguished award will be honored at the Section "Engineers' Week" Dinner Meeting on February 23rd. All members should try and attend this important meeting. Guests are most welcome. For details see the meeting notice elsewhere in the "NOTES!"

This year's nominating committee has been appointed to select the slate of officers for the Orlando Section for the year 1974-75. The committee chairman is Gene Dashiel. Serving with Gene on this committee are Ted Stefanik, PAC Chairman and Mel Taylor, Member-at-large. Nominees selected by this committee will be presented on or before February 15, and will be listed in the March issue of the Section NOTES. I call your attention to the Section By-Laws paragraph 043.

"The Section Membership may make additional nominations by submitting qualified petitions. A qualified petition shall meet the following conditions: a) Specify the office; b) Bear the signature of at least fifteen (15) Section members; c) Contain statement of nominee's consent to serve; d) Be transmitted to the Section Chairman on or before April 15."

NEW SECTION NOTES CHAIRMAN: Due to Bill Woehr leaving the area, I have appointed Dave Bozman as the new Publications Chairman. Dave has accepted this challenge knowing that due to the lack of advertising, we are running over the budget. Any of you business men who can help us out this year, please contact Dave Bozman and offer your services or take out an advertisement.

NEED A NEW PUBLICITY CHAIRMAN: Dave Bozman cannot hold two functions, and being that he has accepted the Section's NOTES, we have a Publicity Chairman vacancy. If you would like to become active in your Section and would like to discuss this chairmanship, please give me a call.

Karl L. Lohman
Chairman
ADVANCE MEETING NOTICE
COMPUTER SOCIETY S-16

PROGRAM FOR FEBRUARY 15, 1974

SUBJECT: "Micro Programing"
SPEAKER: Dr. Ramamoorthy (Distinguished Visitor)
PLACE: Sweden House, 841 Lee Rd, Orlando, Fla. (near I-4)
TIME: Social-6:00 p.m. Dinner-7:00 p.m. Program-8:00 p.m.
MENUE: Smorgasbord "All you care to eat"

Guests and Wives are Welcome

TICKETS: Contact any group officer listed Below:
Chairman
Vice Chairman
Vice Chairwoman
Secretary

Russ Theisen
Lyle Finn
Dianna Last
Igor Golovscenko

Martin 855-6100 ext 2947
Martin 855-6100 ext 2479
Honeywell 894-3131
NTEC 646-4437

Reserve March 15, 1974 to hear Dr. Hong (Distinguished Visitor) Talk on:

"METHODS OF TESTING DIGITAL LOGIC"

POWER (S.31) & I.G.A. (S.34) GROUP

The next meeting of the power and I.G.A. Group is scheduled for Tuesday, March 12, 1974, at 8:00 p.m. in the building of Orlando Armature Works, Inc. 600 West Central Blvd. in Orlando.

The management of O.A.W. will present a program on the "Repair and Maintenance of Electrical Apparatus." In General, this will include both oil filled and rotating equipment.

The last scheduled meeting of the group will be held on May 14, 1974. It is being planned as a dinner meeting with a visiting speaker. Final arrangements will be announced at a later date.

Chairman: Wendall Dixon 841-1230
Vice Chairman: Bill Cram 841-9015
Secretary: Richard Chruscz (305)533-2171
COMMUNICATIONS SOCIETY  
(S-19)

MEETING NOTICE

Thursday, February 21, 1974

SUBJECT: Two-Way Cable Television and the Wired City
SPEAKER: Gary Peck, Chief Engineer, Orange Cablevision
PLACE: House of Beef, Hilton Inn, 3200 West Colonial Drive
TIME: Social: 6:30 p.m. Dinner: 7:00 p.m. Program: 8:00 p.m.
COST: $6.25 for dinner, including tax and gratuities
RESERVATIONS: Mrs. Rita Geringswald, 855-6100, ext. 4507.
Please phone in your reservation by Monday, Feb. 18th

GUESTS & WIVES WELCOME

MICROWAVE THEORY AND TECHNIQUES  
(G-17)

MEETING NOTICE  Tuesday, February 19, 1974

PROGRAM "Gunn Diodes" by Dr. T. B. Ramachandran

Several aspects of Gunn diode characteristics such as AM, FM noise, turn-on characteristics, etc., and their relevance in practical applications will be discussed. Also, a new thermal resistance measurement for Gunn diodes will be discussed.

Social: 5:30 p.m.
Dinner: 6:00 p.m.
Black Angus Restaurant
6107 S. Orange Blossom Trail

Hewlett-Packard Bldg.
6177 Lake Ellenor Drive

Dr. T. B. Ramachandran is a graduate of Lehigh University, Bethlehem, Pennsylvania and the Madras Institute of Technology, India. He has worked in the past on electro-optical detectors, silicon PIN diodes and germanium transistors. Currently, he is the Product Manager of gallium arsenide devices at Microwave Associates, Inc., Burlington, Mass. In this position, he is responsible for the development of Gunn diodes, tuning varactors and GaAs IMPATT diodes. He is the author of several papers on different aspects of Gunn diodes and their fabrication.

Chairman: Ernest E. Erickson 275-2414
Vice-Chairman: Bill Roden 859-2900
Secretary: Harry Willing 855-6100 ext 2140
Bob Doyle's (NSPE) excellent summary of the status of energy legislation in the Congress is still current as (if you followed the fiasco at the end of the session) they agreed on nothing except the 55 m.p.h. speed limit. IEEE members certainly have a major interest in early strengthening of the management of energy research and development. H.R. 11510 which would create the Energy Research and Development Administration (ERDA) passed the House but S. 2744 the companion bill is rumored to be held up in the Senate. There is not agreement within the Congress or within the Administration as to the desirable final relationships between ERDA and the proposed Federal Energy Administration. The urgent need for early and effective management of the expanded R&D effort is so important that we should urge our Senators to pass S. 2744 to get the R&D Administration established. The final relationships with the rest of the structure can be resolved as the details of the final energy management structure are worked out with the Executive Office and within the Congress.

IEEE
JOINT COMMITTEE ON PENSIONS
1625 Eye Street, N.W. Rm. 606, Wash., D.C.

TIME TO WRITE TO CONGRESSMEN

We recommend you support the Ways and Means Committee's provisions which will be offered as a substitute for or amendment to H.R. 2 generally; and support, specifically, those provisions of primary interest to the engineering profession, i.e.:

The provision on "Comparability of Plans" (Section 112 (c) of the Ways and Means bill) which would allow engineers to set up their own society-run multi-employer pension plans;

and

the provision on "Protection for Employees under Federal Procurement, Construction, or Research Contracts or Grants" (Section 124 of the Ways and Means bill), which would provide some measure of protection for the pension rights of highly mobile employees, such as engineers, working under federal procurement contracts.
IEEE PARTICIPATES IN ORGANIZATION OF 16,000 MEMBER "FLORIDA COUNCIL OF ENGINEERING SOCIETIES"

Orlando and West Palm Beach IEEE Sections sent delegates to the January 12, 1974 organizational meeting, held at the Sheraton Jet Port Inn, to form the Florida Council of Engineering Societies. Walter Elden (O) and Bill Cushing (WPB) participated with some 25 delegates from 17 Professional/Technical Societies representing 16,000 members in the day long work session. An interim Constitution, and By-Laws were adopted. Interim officers elected were Tom Furman - Pres., Larry Smith - V. Pres., Gene Lent - Sec., and Gerald Fishe - Treas.

The Council's purpose is "to coordinate and promote the professional interests of the constituent organizations represented in the Council and of the individual members thereof who are engaged in the various professional branches of engineering and related technical and scientific professions in a unified effort devoted to the advancement of professional, technical and educational standards of the said professions.

Action in legislative affairs shall be limited to those matters wherein the professional welfare of the engineering community is involved or wherein it is clearly evident that the knowledge of engineers and scientists can be helpful in the development of sound legislative policies.

The Council shall have such powers as conferred by the Member Societies and by the statutes of the State of Florida upon associations not for pecuniary gain."

The next meeting of the Council is scheduled for March 23, 1974, at Orlando's Jet Port Inn (Sat) from 11 a.m. - 3 p.m. IEEE's two delegates agreed to recommend that IEEE's Area Director represent it's II State of Florida Sections in the Council.

Your opinions on this matter are invited. Contact Walter Elden, P.E. at 855-6100 ext 2859.
Published monthly by the Orlando Section except during the months of July and August.

Inquiries concerning advertising and/or announcements should be forwarded to Mr. David Bozman, 7317 Glasgow Ave., Orlando, Fla. 32805

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<td>Member-at-Large</td>
<td>Mel Taylor</td>
<td>855-6100x4245</td>
<td>647-6045</td>
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<tr>
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<td>Walter L. Elden</td>
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<td>IEEE-FES Liaison</td>
<td>Ted Stefanik</td>
<td>855-6100x3027</td>
<td>671-4240</td>
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* Members of Executive Board

Reminder! The Executive committee meets the first Wednesday of the month. This is an open meeting and ALL members are invited to attend.
The Model 1601L Logic State Analyzer provides a new measurement capability that allows you to see and quickly comprehend complex digital processes. Now you can have a digital measurement instrument that operates up to 10 megabits per second which allows you to dynamically check systems at operating speeds rather than single-stepping. Display format is in an easy to read form of 16 rows of 12 ones and zeros just as presented in textbooks.

The 1601L provides parallel data stream measurements in TTL and MOS logic with directly compatible interface voltage levels. Clock speeds to 10 Mbps make the analyzer ideal for laboratory design of micro-processors, ASM machines, peripherals, and mini-computers. Ease of use coupled with the direct readout in binary logic notation allows fast troubleshooting to isolate problems in production lines. Fast functional isolation of digital problems to basic circuit elements saves time in field service applications.

See the 1601L at the Technical Session on November 16, 1973.

FOR INFORMATION CALL OR WRITE
HEWLETT PACKARD
P.O. Box 13910
Orlando, Florida 32809
Phone 859-2900
Karl Lohman & Jim Walter presenting the IEEE CENTRAL FLORIDA ELECTRICAL ENGINEER OF THE YEAR AWARD to John H. Boynton, P.E.

PUBLISHED BY ORLANDO SECTION INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
CHAIRMAN’S CORNER

Your nominating committee, which was appointed to select the slate of officers for the Orlando Section for the year 1974-1975, has respectfully submitted for this next year the following slate of officers:

Chairman—Dr. James Wiltse  
Vice-Chairman—Harold Downing  
Secretary—Claude E. Jones  
Treasurer—Dr. Ed McCarter

In accordance with the present by-laws, the election of the Orlando Section officers will take place in the month of May, at a Section meeting and should, or if, there be more than one nominee for an office, voting shall be by ballot with the candidate receiving the greatest number of votes being elected.

Once again, I would like to call to your attention the Section By-Laws paragraph 043:

"The Section Membership may make additional nominations by submitting qualified petitions. A qualified petition shall meet the following conditions: a) Specify the office; b) Bear the signature of at least fifteen (15) Section members; c) Contain statement of nominee's consent to serve; d) Be transmitted to the Section Chairman on or before April 15."

A campaign has been launched to form a Chapter of the Vehicular Technology Group in the Orlando area. A petition to form such a chapter can be recognized with as few as 12 members signing it. Many of those interested in vehicular communications, within such organizations as Martin Marietta C&G, are not now members of IEEE. Therefore, as second facet of this campaign has been to sign up new members of IEEE who would be interested in the formation of a Vehicular Technology Chapter. Some 20 people have been contacted, and membership information supplied until the available supply was exhausted.

If you desire to form a Vehicular Technology Group in the Orlando Section, please contact George F. McClure Martin Marietta, 855-6100 ext. 4507.

Karl L. Lohman  
Chairman
CENTRAL FLORIDA ELECTRICAL ENGINEER OF THE YEAR AWARDS

JOHN H. BOYNTON - POWER/IGA CHAPTER - ENGINEER OF THE YEAR
Has been associated with General Electric, Orlando Armature Works, and Boynton & Assoc. as a management engineer and owner in Orlando. His businesses have been a major factor in the support of industries in Central Florida using heavy electrical machinery and industrial controls. He is a Registered Engineer, holds a masters degree, and has been very active in the AIEE and IEEE in Central Florida.

WALTER L. ELDEN - PROFESSIONAL ACTIVITIES COMMITTEE -
ENGINEER OF THE YEAR
Staff engineer at Martin Marietta, engaged in systems planning, organization, study, development and engineering. Prior to joining Martin, he was with Honeywell, Dynatronics and Dresser Electronics. He is extensively published, has a BEE with honors, an MSEE and is a member of Sigma Tau and Tau Beta Pi. He has been active in Orlando Section IEEE as a chapter chairman and as the organizer and first chairman of the PAC.

RICHARD G. JONES - COMMUNICATIONS CHAPTER -
ENGINEER OF THE YEAR
Director of Engineering/Microwave systems at Martin Marietta and responsible for product line development of microwave radio relay communications systems. Has received special recognition award for outstanding achievement at the 12th annual Martin honors night. Prior to joining Martin, he was with Motorola, Collins, and Transportation Microwave Corporation. He has a BA in Physics and a BSEE.

HARRY A. WILLING - MICROWAVE THEORY AND TECHNIQUES CHAPTER -
ENGINEER OF THE YEAR
Staff engineer at Martin Marietta engaged in the development of Microwave communications components. Prior to joining Martin he was with Texas Instruments, Sperry Microwave, Electronic Communications and Norden. He is extensively published. He is active with church youth, and Boy Scouts. He has a BSEE and an MSEE. He is active in the IEEE, MTT group in Orlando and also was active in Dallas.

--NOW FORMING--
Orlando Chapter
IEEE VEHICULAR TECHNOLOGY GROUP
Complements the IEEE Communications Society with coverage of the Mobile Communications field, including paging, mobile telephone, 2-way land mobile radio, and Communications for Law Enforcement, Transportation, and Emergency Medical Services. Also provides coverage for other developments in automotive electronics and highway safety systems.
MICROWAVE THEORY AND TECHNIQUES (G-17)
Program for Tuesday March 19, 1974

SUBJECT: Discrete & Integrated Optics for Communications
SPEAKER: Dr. Ronald L. Phillips
PLACE: Black Angus Restaurant
       6107 S. Orange Blossom Trail
       Social - 5:30
       Dinner - 6:00

Dr. Phillips will present a review of some current optical communications research in the area of optical sources for optical data links, fiber optics, and integrated optics.

Dr. Phillips is an Associate Professor at Florida Technological University teaching courses in optical communications and electronics. He has research background in optical communications and display LASER systems & LASER pulse propagation. He received his BS, MS, & PH.D. degrees in Electrical Engineering and Mathematics from Arizona State Univ. Dr. Phillips is a member of the IEEE and the MTT group.

Chairman: Ernest E. Erickson 275-2414
Vice-Chairman: Bill Roden 859-2900
Secretary: Harry Willing 855-6100 ext 2140

POWER (S-31) & I.G.A. (S-34) GROUP

The next meeting of the power and I.G.A. Group is scheduled for Tuesday, March 12, 1974, at 8:00 p.m. in the building of Orlando Armature Works, Inc. 600 West Central Blvd. in Orlando.

The management of O.A.W. will present a program on the "Repair and Maintenance of Electrical Apparatus." In General, this will include both oil filled and rotating equipment.

The last scheduled meeting of the group will be held on May 14, 1974. It is being planned as a dinner meeting with a visiting speaker. Final arrangements will be announced at a later date.

Chairman: Wendall Dixon 841-1230
Vice Chairman: Bill Cram 841-9015
Secretary: Richard Chruscz (305)533-2171
INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

COMPUTER SOCIETY (S-16)
Program for March 15, 1974

SUBJECT: "Methods of testing Digital Logic."
SPEAKER: Dr. Hong, (A Distinguished Visitor)
PLACE: Sweden House, 841 Lee Rd, Orlando, Fla. (near I-4)
TIME: Social 6:00 p.m. Dinner 7:00 p.m. Program 8:00 p.m.
MENUE: Smorgasbord "All you care to eat"

Guests and Wives are Welcome

TICKETS: Contact any group officer listed Below:
Chairman Russ Theisen Martin 855-6100 ext 2947
Vice Chairman Lyle Finn Martin 855-6100 ext 2479
Vice Chairwoman Dianna Last Honeywell 894-3131
Secretary Igor Golovscenko NTEC 646-4437

COMMUNICATIONS SOCIETY (S-19)
MEETING NOTICE
Thursday, March 21, 1974

SUBJECT: A Look at Long-Haul Coaxial Cable Carrier---Past, Present & Future

The talk will be followed by a facility tour of the Windermere repeater station, an entegral part of the toll transmission system linking Boston with Miami.

SPEAKER: Walter Holmes, Operations Supervisor for Outside Plant with AT&T Long Lines Division

Mr. Holmes is responsible for maintenance of some 400 miles of coaxial cable for the Boston-to-Miami toll cable route. He has been with AT&T Long Lines Division for 33 years.

PLACE: Sweden House, 7056 Kirkman Road, Orlando, Florida
(on 435 south of I-4)

TIME: Social 6:30 PM Dinner 7:00 Program 8:00
COST: $6.00 for dinner, including tax and tip. Coctails extra.
RESERVATIONS: George McClure, 855-6100 ext. 4507 or 2310
by Monday, March 18th

GUESTS AND WIVES WELCOME

NOTE: On April 18, Walt Elden and Terry Duffield will present a program to the communications society on the use of millimeter waves and fiber optics in local distribution of communications.
Special sessions are being planned for the 1974 Region 3 conference and Exhibit in the general area of Professional activities. Projected topics include:

- Professionalism
- Ethical Standards in Industry
- Engineering Management
- Pensions and Fringe Benefits
- Salary Compensation
- Man Power Regulation
- Equal Employment Opportunities
- Combating Obsolescence
- Government and Legislative Matters
- Social Responsibility of Engineers
- Technological Impact, Responsibilities and Liability

The conference will be held at the Dutch Inn at Lake Buena Vista, Orlando, Florida. Further information may be obtained from the conference chairman Claude E. Jones, Mail Point 417, Martin Marietta Corp., P.O. Box 5837 Orlando, Florida 32805

Dr. Joseph Weil, chairman of the Professional Activities Board of the South East Atlantic (Region 3), has asked Ted Stefanik to serve on the Region Board as chairman of Central Florida (Area 3). Ted, current chairman of Orlando P.A.C. has accepted this position.

**IEEE AGREEMENT WITH THE NSPE**

Because many IEEE members have a desire for greater participation in the nontechnical problems facing the profession, the IEEE has an agreement with the National Society of Professional Engineers (NSPE), whereby IEEE members may avail themselves of certain services and publications offered by the NSPE. Services available to IEEE members for $15.00 per yr. include eligibility for the Professional Engineer Employment Referral Service, eligibility for the NSPE retirement program, participation in the NSPE Salary survey, subscription to the Professional Engineer magazine, a member rate on all NSPE publications, and receipt of any or all of the following on request: LEGISLATIVE BULLETIN, LEGISLATIVE ACTION REPORT, LEGISLATIVE OPINION REQUEST, one practice section Newsletter (except Professional Engineers in Private Practice Newsletter).

**EDITORS NOTE** *** A Volunteer is needed to fill the position of Publicity Chairman on the Executive Committee. Please contact Karl Lohman if you can participate in this important job.***
**ORLANDO SECTION NOTES**

**INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS**

Published monthly by the Orlando Section except during the months of July and August.

Inquiries concerning advertising and/or announcements should be forwarded to Mr. David Bozman, 7317 Glasgow Ave., Orlando, Fla. 32805

**1973/1974 Executive Committee**

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<tr>
<th>Position</th>
<th>Name</th>
<th>Business</th>
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<tr>
<td><em>Chairman</em></td>
<td>Karl Lohman</td>
<td>628-3442</td>
<td>644-1144</td>
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<td><em>Vice Chairman</em></td>
<td>Dr. Jim Wiltse</td>
<td>855-6100x2887</td>
<td>876-2561</td>
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<td><em>Secretary</em></td>
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<td><em>Treasurer</em></td>
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<td>855-0984</td>
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<td>859-2497</td>
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<td>Sr. Past Chairman</td>
<td>Jim Gay</td>
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<td>Program</td>
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<td>Russell E. Theisen</td>
<td>855-6100x2947</td>
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<td><em>Group Chap. Rep.</em></td>
<td>Bill Kownacki</td>
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<td>PAC Chairman</td>
<td>Ted Stefanik</td>
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* Members of Executive Board

Reminder! The Executive committee meets the first Wednesday of the month. This is an open meeting and ALL members are invited to attend.
NEW PROFESSIONAL QUALITY OSCILLOSCOPE AT PRACTICAL PRICES

Hewlett-Packard introduces new models with 3\% accuracy, calibrated 8x10 cm display, internal graticule, dc coupling, and triggered sweep. Prices are $575 for single-channel and $695 for dual-channel model.

New 15-MHz oscilloscopes, Models 1220A (dual channel) and 1221A (single channel) from Hewlett-Packard have features usually found only on laboratory models, yet they carry practical prices. Deflection factors are 2 mV/cm to 10 V/cm, so they are suitable not only for the general run of audio, video, logic, and control measurements, but also for such low-level uses as measuring the performance of IF strips. Special facilities are included to examine television circuitry. The cathode-ray tube is of laboratory quality with an internal graticule for no-parallax measurements.

The new instruments are all-solid-state, excepting only the CRT. Sixteen integrated circuits are used. Construction is of extreme simplicity: a rugged one-piece frame firmly supports 3 circuit boards and the CRT, forming a sturdy shock-resistant structure with a vinyl-clad aluminum cover. Power dissipation is low (40 watts), hence heat is low, favoring long, trouble-free life; no fan is needed, so the cabinet is unvented, resistant to dust, moisture, and most other adverse environmental effects.

Their performance and ruggedness make the new 'scopes useful around production lines, numerically-controlled machinery, processes control equipment, automotive, aircraft, marine electronics, and communications equipment.

FOR INFORMATION CALL OR WRITE
HEWLETT PACKARD
P.O. Box 13910
Orlando, Florida 32809
Phone 859-2900
MEMBERS OF THE POWER AND I.G.A. GROUP ON TOUR OF MAINTENANCE FACILITY DURING MARCH PROGRAM ON THE "REPAIR AND MAINTENANCE OF ELECTRICAL APPARATUS."

PUBLISHED BY ORLANDO SECTION INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
We, the members of the Orlando Section, owe much in the way of thanks and gratitude to the following members of our section:

Steering Committee - Southeastcon '74
Gen. Chairman, Claude E. Jones, Jr.
Ass't Chairman, Sam Sherrill Hartin
Technical Program Chairman
Dr. Bruce E. Mathews
Local Arrangements Chairman,
Charles E. Brown
Publications Chairman, Joseph C. Pullara
Finance Chairman, John E. Tracy
Publicity Chairman, Joseph C. Pullara
Exhibits Chairman, Bill Rhoden
Professional Activities Chairman, Ted Stefanik

These individuals have spent many hours of personal sacrifice for the IEEE and the reputation of the Orlando Section. We, the general membership, can and must give them our support by registering and attending as many of the functions as we possibly can. A good turn-out of our membership will help make Southeastcon 1974 the best yet. Be sure to take your wives and girl friends to the banquet Tuesday, April 30.

The By-laws Committee has been somewhat delayed in drafting and updating our by-laws due to their planning efforts and dual functions in preparing for Southeastcon. They reported they will become active again in the next month or so when time will permit. Again, we say to the dedicated few "many thanks."

Ted Stefanik P.A.C. has completed and provided your section chairman with a copy of the profile survey that was conducted in the Central Florida area of the IEEE members. Much of the information is very interesting and, hopefully, can be provided to our members. The method in which this will be accomplished has yet to be determined, but, hopefully, it will be soon.

K.L. Lohman
Chairman
The Orlando Armature Works, Inc. hosted the March meeting of the POWER AND I. G. A. GROUP with an informative presentation on the "Repair and Maintenance of Electrical Apparatus." The program consisted of a slide presentation narrated by John Boynton, P.E., the I.E.E.E. Central Florida Engineer of the year, and was followed by a tour of the Orlando Armature Works.

As Mr. Boynton pointed out in his presentation, there is a tremendous spectrum of electrical apparatus which comes into a shop for either repair or regular maintenance. This spectrum ranges from small electrical motors and generators to large power transformers (thousands of KVA's). The maintenance of this apparatus may also vary from simple cleaning and inspection to complete rewinding and curing of rotors, stators, or transformers. There may also be a good deal of mechanical repair and machining needed before apparatus can be put back on the job. Except for the power transformers, which mostly developed short circuits, the majority of the equipment needing repair had faulty bearings or had improper regular maintenance.

When asked about the advantages of maintenance and repair as opposed to purchasing new equipment, Mr. Boynton was quick to point out the rapidly increasing cost of raw materials and workmanship going into new products. It was estimated that most equipment could be repaired for approximately half the cost of new equipment representing a savings of thousands of dollars in some cases. Also extensive testing and quality of workmanship insure reasonable longevity of repaired equipment.

By Charles Currie
MICROWAVE THEORY AND TECHNIQUES (C-17)

There will be no meeting this month. We hope to see you at SOUTHEASTCON.

Chairman: Ernest E. Erickson 275-2414
Vice-Chairman: Bill Roden 859-2900
Secretary: Harry Willing 855-6100 ext 2140

COMMUNICATIONS SOCIETY (S-19)

Program for Thursday, April 18, 1974

SUBJECT: Millimeter Waves and Optical Communications in Local Distribution

The rapidly growing requirements for digital data transmission both within urban areas and in connecti... and end users with heavy route backbone communications for long distance transmission has underscored the need for various transmission methods which can be used in specific applications. The approaches to be described, while developed to meet military requirements, promise to have wide commercial application as well.

SPEAKERS: Terry L. Duffield, Walter L. Elden, and H.B. (Pete) Muench

The speakers are with Martin Marietta Communications & Electronics. They collaborated in performing the study on which this presentation is based, and will cover millimeter waves, system design, and optical communications, respectively.

PLACE: Holiday Inn- South, 4049 S. Orange Blossom Trail
TIME: Social: 6:30 pm Dinner: 7:00 pm Program: 8:00 pm
COST: $6.00 for dinner, including tax and tip
RESERVATIONS: Call by Monday, April 15, George McClure at 855-6100 ext 4507 or 2310

----------GUESTS AND WIVES WELCOME----------
For the last meeting of this administration, we promised something unusual and exciting and we believe we have it.

To those of us who know all too well what a stroke of lightning on our systems does to our electrical equipment, anything which will reduce this risk would be exciting. It seems that this is now possible.

Mr. Roy carpenter, director & Chief engineer of "Lightning Elimination Associates" in Downey, California is coming to Orlando to address us on this subject.

The meeting is scheduled for Tuesday, May 14, 1974. The time and place will be announced later.

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<th>Chairman:</th>
<th>Wendall Dixon</th>
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<tr>
<td>Vice Chairman:</td>
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<td>841-9015</td>
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<tr>
<td>Secretary:</td>
<td>Richard Chruscz</td>
<td>(305)533-2171</td>
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**COMPUTER SOCIETY (S-16)**

Program for April 18, 1974

**SUBJECT:** "Modern Issues in Computer Architecture"

The presentation will cover some discussion of centralized versus distributed processing, parallelism and pipelining, and high level language processors.

**SPEAKER:** Dr. Oscar N. Garcia is Associate Professor in the Department of Electrical Engineering at the University of South Florida in Tampa. He has taught at N.C. State University, Old Dominion University and the University of Maryland. His industrial experience includes work with the IBM Development Labs at Endicott and summer work and consulting for Goddard Space Flight Center in Greenbelt, Maryland and the Tampa Division of Honeywell Information Systems.

**PLACE:** Sweden House, 841 Lee Rd., Orlando, Fla. (near I-4)

**TIME:** Social-6:00 p.m. Dinner-7:00 p.m. Program-8:00 p.m.

**MENUE:** Smorgasbord "All you care to eat"

Guests and Wives are Welcome

**TICKETS:** Contact any group officer listed Below:

Chairman        Russ Theisen  Martin 855-6100 ext 2947
Vice Chairman    Lyle Finn    Martin 855-6100 ext 2479
Vice Chairwoman  Dianna Last  Honeywell 894-3131
Secretary        Igor Golovsenko NTEC 646-4437
SOUTHEASTCON 74
29, 30 April, 1 May 1974
ADVANCE REGISTRATION

NAME
(Print) (Last) (First) (Initial)
Address ____________________________
City ____________________________ State ___ Zip ______
Country ____________________________
Affiliation ____________________________
Please check: Speaker ❑ Session Chairman ❑
Attendee ❑ Spouse will attend ❑ IEEE Life Member ❑
Spouse’s badge should read ____________________________

REGISTRATION FEES
(Circle Registration Paid)

By
After
April 1, 1974 April 1, 1974
FULL REGISTRATION
(Includes Banquet and Proceedings)
IEEE/ISHM Members $40.00 $45.00
Non-Members $45.00 $50.00

LIMITED REGISTRATION
(Attendance and Proceedings)
IEEE/ISHM Members $30.00 $35.00
Non-Members $35.00 $40.00

IEEE Life Members receive a $5.00 reduction on registration fees ❑

BANQUET ONLY
$10.00 $10.00

PLEASE MAKE CHECKS PAYABLE TO:
SOUTHEASTCON 74
Total Amount Enclosed $______

ADVANCE REGISTRATION MUST BE RECEIVED BY APRIL 1, 1974

Mail Advance Registration to:
John E. Tracy
Finance Chairman
Southeastcon 74
Box 13275
Orlando, Florida 32809

Make Check Payable to:
SOUTHEASTCON 74
EDITOR'S COMMENTS

EXPANDING THE SECTION NOTES

Beginning with this month's notes, I hope to feature a group, person, event, or engineering problem with a story and photo. I also hope to be able to provide at least a page of "letters to the Editor," in which you can increase your involvement by commenting on matters of interest to the electrical and electronics profession. How about some letters, especially from you members who don't belong to groups, letting me know what you would like presented in the "Notes."

I received the letter included in this month's "Notes" and decided to publish it in its entirety because so many I.E.E.E. members (and non-members) had signed it. If space forces me to edit future letters it will be for length only and not content. Please address letters to:

David W. Bozeman
7317 Glasgow Avenue
Orlando, Florida 32805

Maintaining an expanded Section Notes with feature stories and with a forum like "Letters to the Editor" will depend on how well we do in procuring advertising. We mail out over 600 copies each month. If you can help us with an ad, please contact me.

We have been getting some requests for information about I.E.E.E. member insurance. Information and details can be obtained from:

Administrator, I.E.E.E. Group Insurance Program
1707 L. Street, N.W.
Suite 800
Washington, D.C. 20036
Telephone (202) 296-8038

Here are two announcements I would like to pass along from the computer society. They are providing a speaker to address the F.T.U. Student Chapter. Dianna Last will talk on "Computer Science as a Carrier." Also, Russ Theisen has been appointed as the 1974 Computer Conference and Exposition Orlando contact. The National Computer Conference and Exposition will be held May 6-10, 1974 in Chicago, Ill.
Dear Editor:

At issue is the question concerning the use of mailed out ballots for electing the new slate of Orlando Section officers for the coming year. The motion made at the March 1974 Executive meeting to provide for a mailed out ballot is supported by the undersigned. The use of a mailed out ballot will be in the best interest of the entire membership for the following very good reasons:

1. There has been an indication that opposing candidates will qualify by petition to run for several offices.

2. Last year's election meeting attendance, of approximately 12 out of the over 600 Section membership, elected the current year's uncontested officers.

3. While the Section By-Laws specify 15 members constitute a Section meeting quorum, the higher precedence IEEE Organization By-Laws (605) states that "15 per cent (90 of 600 members) of the total number of voting members as recorded in the official IEEE membership records at the end of the previous year shall constitute a quorum at any general meeting of members, ...." It is felt that a mailed out ballot would provide the maximum probability of attaining a quorum.

4. Many of the members travel on company business and are unable to attend a General Election meeting.

5. Those in the outlying areas may be reluctant to drive the great distance because of the energy crisis.

6. Many may be ill, will not attend and be deprived of the privilege of voting.

7. Multi-candidates of different viewpoints will be encouraged to participate in seeking office if they are confident a fair election can be held.

8. Requiring attendance at the election meeting to exercise the voting right discourages rather than encourages membership involvement in section affairs.

9. Next year's officers could be certain they represent the membership.
Further, the IEEE Section Operation Guide, 4.B. (7) (c) states:

"If it is the judgement of the Section chairman that a fair expression of the membership can not be determined at the annual meeting, a letter ballot may be ordered..."

We feel that the low attendance of previous year's meetings are not a "fair expression of the membership," and accordingly ask that a mailed out ballot be used in this year's election.

Signed,

D. J. Kennedy
J. R. Endicott
M. L. Cunningham
R. Peterson
Ed. R. Mc Carter
C. Curley
W. Elden
H. Wilson
T. M. Stefanik
T. Moulton
W. Dixon
J. Wiltse
W. C. Cram
J. M. Jolly
R. P. Cruszcz
M. Barton
H. A. Willing
D. R. Fisher
R. A. Bates
B. A. Mc Henry
D. Bowyer
S. Leslie
J. Horrell
D. Baxter
C. M. Reeves
D. H. Lazarus
J. Murdock
H. Wert
H. Downing
D. Sukhia
G. R. Redinbo
R. Theisen
T. Morrow
H. H. Bevis
T. Bishop
G. Bourland
M. Bryan
J. Drawdy
J. L. Layne
H. Lindsey
G. McClure
M. McDaniel
V. Miller
E. Scott
K. Spielmann
R. Wick
H. Zwarra
D. Wunsch

IN OPPOSITION:

The expensive burden of a mail out ballot should be given consideration since we are in a financially difficult position this year.

W. Jamieson

The past system has always worked, and well, in my opinion, so why change it, especially during this year of financial crisis.

J. Walter

The section by-laws do not in any way provide for this action. National Officers elections are handled in a different way as stated in the letter. Ours calls for a May election meeting, not a May polling of the group. I am in favor of changing the by-laws, but not of conducting an election in violation of existing by-laws.

John Tracy
Published monthly by the Orlando Section except during the months of July and August.
Inquiries concerning advertising and/or announcements should be forwarded to Mr. David Bozman, 7317 Glasgow Ave., Orlando, Fla. 32805

1973/1974 Executive Committee

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* Members of Executive Board

Reminder! The Executive committee meets the first Wednesday of the month. This is an open meeting and ALL members are invited to attend.
First step toward a cost-effective teleprocessing system: Choose the right team to create it.

To build a functional structure requires the guidance of an experienced architect. And creating a cost-effective teleprocessing system requires similar guidance from competent systems engineers.

Martin Marietta's systems engineering team has specialized experience that ranges from hardware and software—such as real-time data collection and reduction systems—to complex theoretical and analytical evaluations to define the teleprocessing needs and equipment requirements of the future. Responsibilities have included systems analysis of tactical communications as well as operational test requirements and evaluation of defense systems.

For specific information on how Martin Marietta's experience in teleprocessing systems engineering and integration can help you solve your problems, write or call: Marketing Director, Martin Marietta Communications & Electronics, M.P.4, P.O. Box 5837, Orlando, Florida 32805; telephone (305) 855-6100.
NEW PROFESSIONAL QUALITY OSCILLOSCOPES AT PRACTICAL PRICES

Hewlett-Packard introduces new models with 3\% accuracy, calibrated 8x10 cm display, internal graticule, dc coupling, and triggered sweep. Prices are $575 for single-channel and $695 for dual-channel model.

New 15-MHz oscilloscopes, Models 1220A (dual channel) and 1221A (single channel) from Hewlett-Packard have features usually found only on laboratory models, yet they carry practical prices. Deflection factors are 2 mV cm to 10 V cm, so they are suitable not only for the general run of audio, video, logic, and control measurements, but also for such low-level uses as measuring the performance of IF strips. Special facilities are included to examine television circuitry. The cathode-ray tube is of laboratory quality with an internal graticule for no-parallax measurements.

The new instruments are all-solid-state, excepting only the CRT. Sixteen integrated circuits are used. Construction is of extreme simplicity: a rugged one-piece frame firmly supports 3 circuit boards and the CRT, forming a sturdy shock-resisting structure with a vinyl-clad aluminum cover. Power dissipation is low (40 watts), hence heat is low, favoring long, trouble-free life; no fan is needed, so the cabinet is unvented, resistant to dust, moisture, and most other adverse environmental effects.

Their performance and ruggedness make the new 'scopes useful around production lines, numerically-controlled machinery, processes control equipment, automotive, aircraft, marine electronics, and communications equipment.

FOR INFORMATION CALL OR WRITE
HEWLETT PACKARD
P.O. Box 13910
Orlando, Florida 32809
Phone 859-2900
VOTE
For The
1974-1975
EXECUTIVE BOARD OFFICERS

Ballot Enclosed
At the April 3, 1974 Executive meeting, the decision to hold the May election of 1974-75 Orlando Section's Officers by mailed ballot was agreed upon.

The method, obviously, is to use these NOTES as a media of introducing the nominated candidates to the membership and to provide a ballot as well. Please be sure to vote, fill in your membership number on the ballot and return it before May 13, 1974. All ballots will be checked by membership number in order to make the vote valid. Non-members, Gene Dashiell's secretary and mine will check the membership status against the ballots as well as tally the votes. This operation will take place on Friday, May 17, 1974 at 2:00 p.m. at the Hewlett-Packard Building in Orlando, Fla. Candidates are urged to attend the tally. Names of voting members will not be needed or used in this process. The post office cancellation date of May 13, 1974 will determine the cut-off of valid votes. Ballots are to be returned to the Hewlett-Packard Building, Post Office Box 13910, Orlando, Fla. 32809.

The Orlando Section membership as reported by Wade Brown, Membership Chairman at our last meeting, was 621 members.

Awards Chairman, Jim Walters reported that our Section has made two nominations from the membership as candidates for Region III Awards. Let's hope that by the time you are reading this issue these candidates will be exposed to the membership as awards winners.

Your executive committee has approved our participation with the FES for the "Engineer of the Year" banquet, 1975. Both societies have compromised on various conditions and we will, once again, give it a try. Hopefully, both of these societies can hold joint "Engineer of the Year" awards and still properly, give consideration to all of the members.

K.L. Lohman,
Chairman
Orlando Section
The nominating committee for the 1974-1975 year have had their meeting and wish to submit the following nominations for the new Section Officers to serve during the year of 1974-75. The nominating committee consisted of Gene Dashiell, Chairman, Ted Stefanik, and Mel Taylor.

CANDIDATES FOR SECTION OFFICERS

FOR CHAIRMAN - JAMES C. WILTSE

Dr. Wiltse is the Engineering Director of Research and Technology at Martin Marietta, where he has been employed for ten years. In prior positions at Martin he was a Principal Engineer and the manager of several departments (Microwave and Optical Communications, Electromagnetics, and Lasers and Optics). He was previously employed by Electronic Communications, Inc. Earlier Dr. Wiltse taught electrical engineering at Rensselaer Polytechnic Institute and at John Hopkins University, where he was also a staff member of the Radiation Laboratory. The BSEE and MSEE degrees were awarded to him by Rensselaer Polytechnic, and the Doctorate in engineering by Johns Hopkins University. He is a Fellow of the IEEE, a member of Sigma XI, Tau Beta Pi, and Eta Kappa Nu, and is listed in "American Men and Women of Science", "Who's Who in the South and Southwest", and the "Dictionary of International Biography".

Dr. Wiltse has been active in IEEE at local and national levels: Section Vice-Chairman, Secretary, Executive Committee; Chapter Chairman of MTT; National Administrative Committee MTT; Editorial Review Boards for Transactions on MTT and on AP; Steering Committee for 1965 National MTT Symposium; Technical Program Committee 1974 MTT Symposium.

FOR VICE CHAIRMAN - HAROLD DOWNING

Mr. Harold Downing has been associated with Southern Bell for 18 years and is presently a District Engineer. He received his Electrical Engineering degree from the University of Florida in 1948 and his Master's degree from Rollins College in 1971. He is a registered Professional Engineer in the State of Florida and holds memberships in the FES and NSPE. Harold is presently Secretary of the Orlando Section and in 1969 was chairman of the Communication Technology Group.
FOR VICE CHAIRMAN - TED M. STEFANIK

Ted Stefanik is employed by the Martin Marietta Corporation, Communications and Electronics Division as a Senior Staff Engineer. He has been employed by Martin Marietta since receiving his BSEE degree in 1959 from the University of Pittsburgh. He received his MSEE degree from Drexel University in 1964 and his Masters in Management from Rollins College in 1971. Ted is a registered Professional Engineer in the State of Florida (by exam) since 1969.

Ted joined the society as a student member of the old IRE and is now a senior member. He has been a member of the Group on Computers and the Group on Education. He is the present chairman of the Orlando Section Professional Activities Committee, Area Chairman (State of Florida) of the Professional Activities Committee, Co-Chairman of Region III Professional Activities Board (Southeast U.S.A.), a member of the IEEE, United States Activities Committee, Professional Activities sub-committee, and Chairman of Southeastcon 1974 Professional Activities Session. Additionally, he is an active member of the Florida Engineering Society, the National Society of Professional Engineers, the American Association for the Advancement of Science and the Florida Academy of Science.

Ted conducted the 1973 IEEE Engineering/membership Profile Survey of the Orlando Section, and of all Central Florida. From this newly created data base on the needs of our members, he hopes to implement; as Vice-Chairman of the Orlando Section, the direction and leadership that will relate to the professional needs of membership as revealed in the survey data. He believes that the IEEE engineer is the sum total of the technical part of the engineer and the professional part of the engineer. It is this last part of the equation that has been sorely neglected in the society for forty years and to which Ted is dedicated to elevate to an equal par with the technical aspirations of our members.

FOR SECRETARY - JOHN H. BOYNTON

John Boynton attended the University of Georgia, the University of Washington, Seattle, Montana State School of Mines, and received his masters degree from Rollins College. He has 15 years of employment with General Electric Company in Engineering and Management. Since 1964 he has been with Orlando Armature Works. He is Vice President, Orlando Armature Works, Inc; Vice President, Superior Pump and Armature; President, Boynton and Associates; Vice President, Rowand's Inc.; Vice President, Electric Construction Co.; and Vice President, Caldwell, Boynton and Associates.

John has been a member of AIEE and IEEE since 1947. He is also a member of the National Society of Professional Engineers, Florida Engineering Society, North Carolina Society of Engineers, Master Mason, and Rotary Club of Orlando. He is a Registered Professional Engineer in the State of Florida and was awarded the 1974 IEEE Electrical Engineer of the Year Award for Central Florida.
FOR SECRETARY - CLAUDE E. JONES

Claude Jones received his BS in Physics from the Georgia Institute of Technology. He is a senior member of IEEE, a member of Sigma Pi Sigma (Physics Honorary), and received the Sigma Pi Sigma Award at Georgia Tech. in 1950. He has five patent awards and numerous technical publications. He has twenty five years of engineering experience. Claude was a radio officer in the U.S. Merchant Marines; worked for Georgia Power Company; was a research assistant at Georgia Tech.; an engineer for the Hastings Instrument Company; a senior Staff Associate and Systems Analyst for Data Dynamics Incorporated. He also worked for ITT Federal Laboratories, as a Senior Engineer, Development Engineer, Project Engineer, Senior Project Engineer, and Executive Engineer.

Claude has been a Staff Engineer at Martin Marietta, a Section Chief, and now manages the Microelectronics and Electronic Product Design Department, and supervises 113 people.

FOR TREASURER - DR. ED McCARTER

Dr. Ed R. McCarter received the B.S., M.S. and Ph.D. in Electrical Engineering from Oklahoma State University. He is a senior member in IEEE and has held the office of Chairman, AES Group here in Orlando. He is faculty counselor for the Florida Technological University IEEE Student Group. Dr. McCarter is presently Professor, Electrical Engineering at FTU and is a registered P.E. in Florida and Oklahoma.

LETTERS TO THE EDITOR

To The Editor:

As an IEEE member and present secretary of the Power Group in the Orlando area I am extremely pleased to hear that Mr. John Boynton of Orlando Armature Works has been nominated for the position of Section Secretary for the upcoming year. I have dealt with John on a professional basis in the past several years and known him personally and have found him to be an extremely responsible and capable individual as demonstrated by being elected IEEE Engineer of The Year of the Orlando Section. I am convinced that John Boynton is a top candidate for the position of Section Secretary.

Sincerely yours,
Richard P. Chruszcz
Power Group Secretary
BALLOT
1974-75 Candidates
IEEE-Orlando Section

CHAIRMAN --

Dr. James Wiltse*------------------- □

VICE CHAIRMAN --

Harold Downing*------------------- □
Theodore Stefanik ----------------- □

SECRETARY --

John H. Boynton ------------------ □
Claude E. Jones*------------------ □

TREASURER --

Dr. Ed McCarter*------------------ □

MAIL TO: Hewlett-Packard
P.O. Box 13910
Orlando, FL 32809

PRIOR TO MAY 13, 1974

*Nominating Committee Candidates
GROUP ANNOUNCEMENTS

MICROWAVE THEORY AND TECHNIQUES (G-17)

Please contact the officers listed below for information regarding this month's program.

Chairman: Ernest E. Erickson 275-2414
Vice-Chairman: Bill Roden 859-2900
Secretary: Harry Willing 855-6100 ext 2140

POWER (S-31) & I.C.A. (S-34) GROUP
Program for Tuesday, May 14, 1974

SUBJECT: "Lightning Elimination"

SPEAKER: Mr. Roy Carpenter, director & Chief Engineer of "Lightning Elimination Associates" in Downey, California

PLACE: House of Beef, Hilton Inn West, 3200 W. Colonial Dr. Orlando

TIME: Social 6:00 p.m. Dinner 7:00 p.m. Program 8:00 p.m.

COST: $6.76, includes tax & tip, Steak dinner

RESERVATIONS: Mrs. Dickey 841-9015, or Mrs. Weathington 423-0555

Guests and visitors Welcome

NOTE**** This is also the night we will elect and install a new slate of officers, so let's have a good turnout.

Chairman: Wendall Dixon 841-1230
Vice Chairman: Bill Cram 841-9015
Secretary: Richard Chrusczc (305)533-2171

COMPUTER SOCIETY (S-16)
Program for May 16, 1974

SUBJECT: "Micro Processors"

SPEAKER: Dr. Ramamoorthy, The Past Chairman of the National Computer Society's Distinguished Visitor Program.

PLACE: Sweden House, 841 Lee Rd., Orlando, Fla. (near I-4)

TIME: Social 6:00 p.m. Dinner 7:00 p.m. Program 8:00 p.m.

MENUE: Smorgasbord "All you care to eat"

Guests and Wives are Welcome

TICKETS: Contact any group officer listed below:

Chairman Russ Theisen Martin 855-6100 ext 2947
Vice Chairman Lyle Finn Martin 855-6100 ext 2479
Vice Chairwoman Dianna Last Honeywell 894-3131
Secretary Igor Golovscenko NTEC 646-4437
COMMUNICATIONS SOCIETY (S-19)
Program for Thursday, May 16, 1974

SUBJECT: New Trends in PABX Communications

New capabilities are being offered in Private Automatic Branch Exchange equipment permitting the user to tailor his service to meet his individual requirements. The features provided in current PABX systems will be described, and equipment in production will be viewed and demonstrated during a visit to the General Dynamics/Stromberg-Carlson plant following the talk.

SPEAKER: John A. Adams, Design Engineering Manager, Stromberg-Carlson, Sanford, Fla.

Jack Adams has 18 years' experience in the design of private branch exchange telephone equipment. In his present position as design engineering Manager for Stromberg-Carlson, he has been granted six patents for the design of PABX hardware. Prior to Stromberg-Carlson, he spent ten years with the U.S. Instrument Corporation.

PLACE: Holiday Inn of Orlando--Altamonte Springs, I-4 and Highway 436
TIME: Social 6:30 p.m. Dinner 7:00 p.m. Program 8:00 p.m.
COST: $6.25 for dinner, including tax and tip
RESERVATIONS: Call George McClure at 855-6100, ext. 4507 or 2310 by Monday, May 13

----------------------------------GUESTS AND WIVES WELCOME----------------------------------

Chairman: George McClure 855-6100 ext. 4507
Vice-Chairman: Ed Scott 423-7071
Secretary: Dick Bergen 849-9869
Programs: Al Levy 855-6100 ext 3723, 3225
Gerry Bourland 843-5461
Membership: Joe Schuler 855-6100 ext 4664
Mike Bryan 843-5461

ASME Invites IEEE to hear:

ASTRONAUT JOHN YOUNG

JOINT MEETING: ASME, Fla., and Canaveral Sections
AIIE, SAMPE, ASM, ASQC

PLACE: Sheraton Jetport Inn
TIME: Cash Bar - 6:30 p.m. Dinner - 7:30 p.m.
COST: $6.50 per person
RESERVATIONS: Advance Sales Only - No Tickets at the Door. No one admitted without tickets. Tickets available by mail and through selected individuals to be announced later. Watch for notice or contact Joe Adams after May 10, 1974.

Phone 855-6100 ext. 7846
VEHICULAR TECHNOLOGY GROUP (G-6)

A petition has been circulated for the establishment of this group chapter within the Orlando Section. To date, 15 signatures have been obtained, with still others interested, and having applied for membership, but without response from IEEE headquarters thus far.

Since the number of signers on the petition already exceeds the 12 required for the petition, it is planned to follow up with the next steps in forming the chapter: approval of the section executive committee, approval of the regional director, and approval of the VTG president (the latter two approvals obtained by member services department of IEEE headquarters.)

Nick Alimpich, VTG president, has welcomed the formation of the new chapter, and has asked the organizer to serve on the nominating committee for the VTG ADCOM. In conversation today, he said that the VEHICULAR TECHNOLOGY GROUP is looking for a site for their 1976 conference. The 1975 conference is being held in Toronto in January. For 1976, they are considering Chicago, Boston, and Orlando. That conference would be scheduled in the January-to-March period. The Boston chapter is a joint one with the Communications Society, and the Chicago chapter is not too active. If we want to achieve visibility fast, and if the membership agrees, we may consider having that conference in Orlando. This would, of course, be a heavy responsibility for a fledgling chapter to take on.

George McClure, Organizer

-------- NOW FORMING--------

ORLANDO CHAPTER
IEEE ENGINEERING MANAGEMENT GROUP

Present members of this group and other local IEEE members interested in joining
Please contact:
Jerry Budiansky 855-6100 ext. 4564

NEW IEEE MEMBERS MONTH OF JANUARY
William Hanay "M" John B. Di'Albora Jr. "SM"
Thomas W. Hendrix "M" Harold W. Clark "M"
Bruce C. Smith "M" G. R. Redinbo "M"
Robert H. Wassum, Jr. "M" CHANGE IN MEMBERSHIP GRADE:
Gino Zarrillo "M" I.V. Golovcensdo "A" to "M"

NEW IEEE MEMBERS MONTH OF FEBRUARY:
Walter Banziger "M" Howard W. Daniels "S"
Robert L. Batts Sr. "SM" Hugh Halpin "M"
Paul A. Buczek "A" Arthur L. Hollows "S"
Lawrence W. Kakritz "S" John R. Sipe "M"
Charles A. Bublitz "A" James B. Scott "M"
John R. Edwards "M" James H. Amsler "S"
Published monthly by the Orlando Section except during the months of July and August.

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Reminder! The Executive committee meets the first Wednesday of the month. This is an open meeting and ALL members are invited to attend.
There's no cure-all for the communications crunch.

We can't take the pain out of your transition from analog to higher speed, more accurate and totally automated digital communications systems. Nor when you must make the switch under tight budget restrictions.

But we can make the change a bit easier for you. By designing, developing and producing advanced, innovative and highly efficient telecommunications systems that offer meaningful reductions in size, weight and maintenance requirements.

Martin Marietta is dedicated to technological leadership in the development of next generation telecommunications systems that include solid state microwave, mobile radiotelephone, advanced digital switching and multiplexing, computer-controlled teleprocessing, laser transmission, demand access terminals and quality control of digital transmission.

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