Mel Taylor Receives Chairman's Gavel

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

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FROM THE CHAIRMAN'S CORNER

I am fortunate to have such an outstanding slate of officers working in behalf of the Orlando Section of IEEE during the 1969-70 season. The names and telephone numbers for both those elected and appointed officers are on the preceding page. I would like to extend recognition to several new members of the executive committee: Mr. James M. Sessoms, Program Chairman; Mr. J. Douglas Wells, Group Chapter Representative; Mr. Harold Rosenblum and Dr. Barney L. Capehart, members at large. Special recognition is in order for Mr. Robert R. Rowell who is again serving as the Publications Chairman, producing the Orlando Section Notes. This has been an exceptional publication for the past few years as I am sure it will continue to be through the 1969-70 season. Also, special recognition is in order for Mr. John E. Tracy, who is our current Senior Past Chairman. John has been very active in IEEE for many years and had progressed to Section Chairman for the 1967-68 season, however, he did not stop his participation after he had served in the highest local office. He has now accepted the appointment as Awards Committee Chairman and has agreed to present a five minute talk at Section and Group Chapter meetings outlining the advantages and responsibilities of membership in IEEE.

Several meetings have been held by the Executive Committee this summer to establish the section goals and program schedules for Group, Section, and Executive Committee meetings. The goals are:

1. Membership — now stands at 480 and Mr. Karl Lohman, Membership Chairman, feels that a 10% increase by 1 June 1970 can be achieved.

2. Publicity — Mr. Martin B. Goldman, Publicity Chairman, has promised that all meeting notices will be covered by local newspaper and that special events would also have local radio coverage.


4. Education and Careers — Mr. W. Henry Horne, Committee Chairman, assisted by Dr. Capehart of Genesys, will establish a Student Chapter by 1 June 1970.

Program schedules: Tentative schedule for activities planned for this season are shown on pages 10 and 11. This year we hope to concentrate on better topics and high quality speakers recognizing full well that the quantity of meetings will be reduced. The success of all these meetings depends upon your active participation and support. Please note poem on page 7 and Plan to Participate.
ORLANDO SECTION MEETING

Sponsored by

AES GROUP

Wednesday, September 24, 1969

Hilton Inn — House of Beef

Social Hour ..................6:30 p.m.

Dinner ..........................7:15 p.m.
(Steak — $4.50)

Program ..........................8:00 p.m.

— FLIGHT OF APOLLO 11 —

Presented by a representative of

North American Rockwell Corporation
Kennedy Space Center

This should be a meeting of general interested - Guests are always welcome at IEEE meetings.

---x---x---

Reservation Deadline Noon 23 September

Make reservations and secure tickets from AES officers as listed on page 6 or from Miss Doris Brown — 855-6100 x 4245/6.
Aerospace & Electronic Systems—G-10

Chairman: Jack Krips  
R. 424-7458

Vice-Chrm: Norman E. Himelhoch  
R. 293-7993

Secretary: Robert Marshall  
R. 855-2543

Program Chrm. Gerald H. Weiss  
R. 241-1793

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The AEROSPACE and ELECTRONIC SYSTEMS GROUP  
is sponsoring the September Section Meeting  
For details see page 5.

—x—x—

Parishioner to minister soliciting money: "But parson, I thought you said salvation was free as water."

Parson: "Salvation is free as water, Brother, but when we pipe it to you, you have to pay for the piping."

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PLAN TO PARTICIPATE

Are you an active member,
The kind that would be missed,
Or are you just contented,
That your name is on the list?
Do you attend the meetings
And mingle with the flock?
Or do you stay at your office
And criticize and knock?
Do you take an active part
To help the work along?
Or are you just satisfied to be
The kind who just belongs?
Do you ever work on a committee
To see there is no trick
Or leave the work to just a few
And talk about some clique?
So come to the meetings often
And help with hand and heart;
Don't be just a member
But take an active part.
Think this over, brother,
You know right from wrong,
Are you an active member,
Or do you just belong?
Electronic Computer — G-16

Chairman: John R. Walker  
R.  647-6224  
Dynatronics  
B.  838-6161 x 398

V-Chairman: Lawrence G. Smith  
R.  293-7741  
Computer Systems & Software  
B.  841-6790

Secretary: Richard S. Van de Houten  
Dynatronics  
R.  838-0571  
B.  838-6161 x 423

The Electronic Computer Group has scheduled its first meeting to be held on 7 October. Detailed announcement of this meeting will be in the October Issue.

The Electronic Computer Group embraces theory design and practices relating to digital and analog computation and information processing.

The functions of the local Electronic Computer Group are to promote close cooperation and exchange of technical information among its members and those of other groups both in and outside of the IEEE organization. Our local chapter engages in a broad range of activities, such as general meetings, panel or roundtable discussions, inspection and field trips, study groups and seminars.

Membership is open to all IEEE members of every grade. Why not become active with this Group — NOW?

---

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ALGONQUIN ANTENNA PICKS UP NEW RADIO SOURCE

Scientists from one Canadian and three U. S. universities have used the 150-foot (45.7-meter) dish antenna of the Algonquin Radio Observatory to detect in space OH molecules of a hitherto unobserved level of excitation. The antenna is operated by the National Research Council of Canada.

The OH molecules are short-lived couplets composed of one hydrogen and one oxygen atom. Like other molecules and atoms, OH groups can exist at various energy levels and each is characterized by emission of energy at an appropriate wavelength. In space, OH can be detected as emitted radiation by radio telescopes, or its presence may be deduced by inference, as is the case when light or radio energy, deficient in only a few component wavelengths, reaches earth from a faraway source.

The observations that are the subject of the present report, published in the current volume of the Astrophysical Journal of Chicago (by J. L. Yen, University of Toronto; B. Zuckerman, University of Maryland; P. Palmer, University of Chicago; and H. Penfield, Harvard College Observatory), were of radiation stemming from a source in our own galaxy, the "Milky Way." It is known as W 3 and is on the edge of the visible nebula I.C. 1795. The belief is that the radiation is produced by a gigantic natural maser. It is thought to be energized by infrared or ultraviolet energy in nearby gas that is becoming hotter and hotter as it condenses under the influence of local gravity, as part of the process of creating a new star.

This study of molecules in interstellar space is of special importance because some of these molecules, only a little more complex than those recently observed, come very close to the simplest of the amino acids—the first steps toward life.
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INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Our Membership Chairman reports an Orlando Section Membership of 480 of these 480 members there are the number shown below affiliated with each the Groups.

### IEEE MEMBERSHIP GROUP COUNT, AUGUST 1968

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The MTT Group plans to hold 6 meetings during the 1969-70 year. The first will be on 16 October, details in the Orlando Notes.

---

**LOCAL GROUP CHAPTERS**

The G-MTT promotes the formation of active local Group Chapters which are located from coast to coast and continue to increase in number. They have considerable vitality, meeting frequently and engaging in active discussions on current scientific topics related to the field of interest. Much of the strength of the national G-MTT stems from these local Group Chapters.

Why not participate in the meeting of this Group Chapter?
New facility opened for UHV-cable testing

An advanced facility for testing extrahigh- and ultrahigh-voltage cable designs has been operated by the Phelps Dodge Cable and Wire Company in Yonkers, N.Y., overlooking the Hudson River.

Equipment in the new EHV Test Center will enable the testing of insulated transmission cables with ratings of up to 1200 kV dc and up to 1000 kV ac. The highest underground present-day ac power transmission system in the U.S. operates at 345 kV. Special major equipment presently installed in the Center consists of a 2000-kV dc testing set, a 1500-kV ac series resonant test set, and a 46-kV impulse and switching surge generator.

The laboratory structure—the first major building to feature a new Phelps Dodge aluminum wall system—is built over the river on steel pilings driven into the river bed. The interior hall is completely environmentally controlled. It houses giant electric testing devices and auxiliary equipment for monitoring the performance of experimental electric power transmission cables.

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MARTIN MARIETTA
The scope of the Communications Technology Group embraces planning, research, development, design, application construction, installation and operation of all telecommunications including telephone, telegraphy, date facsimile and point-to-point television, by electromagnetic propagation including radio, wire, aerial, underground, coaxial and submarine cables, wave guides, communication satellites and lasers; in marine aeronautical, space and fixed station services, repeaters, radio relaying, signal storage and regeneration, telecommunication error detection and correction, multiplexing, carrier techniques, communications switching systems, data communication and communication theory.

The function of a communications Technology Group is to promote close cooperation and exchange of technical information among its members and other related groups both in and outside of the IEEE organization. The local Group Chapter engages in a broad range of activities, such as general meetings, panel or roundtable discussions, inspection trips, study groups, and seminars.
GROUP MEETING

Monday, 22 September 1969

8:00 p.m. — Florida Power Corp., Conference Room, Pinecastle, 5563 So. Orange Avenue

Speaker — Mr. Clifford B. Benhan, Transmission Consultant, FPC

Topic — Florida Power Corp. 500 KV Design Problems

A discussion of the unique problems encountered along coastal sections of the FPC Service area.

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SEPTEMBER ACTIVITIES CALENDAR

Monday, September 22 — 8:00 p.m.

Power-Industry and General Application Group Meeting

FPC Conference Room, Pinecastle

Wednesday, September 24 — 6:30 p.m.

Section Meeting, Sponsored by AES Group

Flight of Apollo 11 — Hilton Inn

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