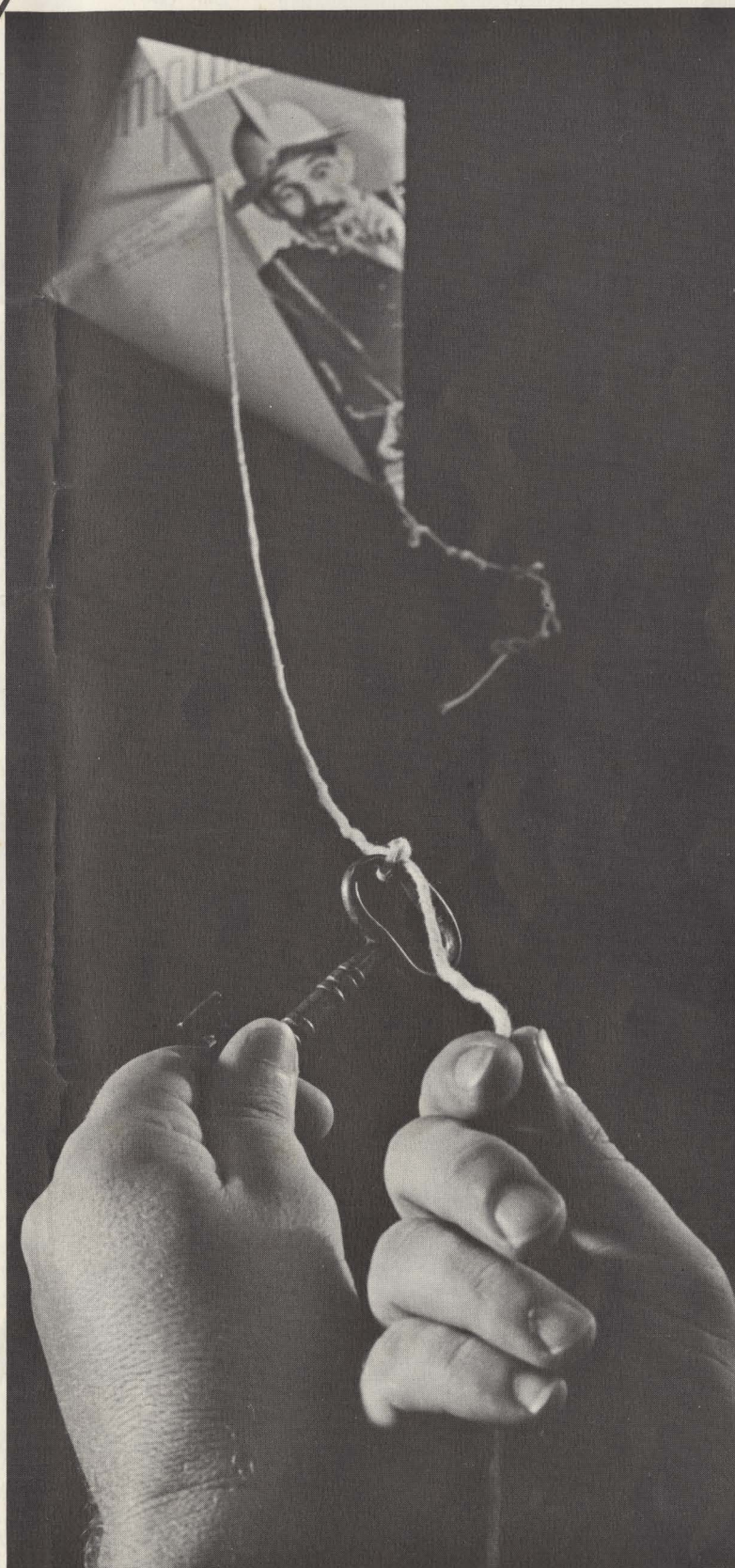




mouse

*That so few
now dare
to be eccentric
marks the
chief danger of
the time.*

JOHN STUART MILL





Formerly the Indian River Engineer
OCTOBER 1967 Volume 13, Number 2

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1967 - 1968

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INTEGRITY

The initial issue of IMPULSE has received some laudatory comments. For this we thank you but we will attempt to improve as time goes on. We have not had any response to our plea for assistance. We desperately need some editorial assistance to get our issues out on time.

This editor is new in this area and in this chapter and we need to have an input from you, the readers, what would you like to see in the publication? If you provide a lead we will try to track it down.

In all trade publications that most of you receive there is something called "editorial integrity," that is a line of demarcation between editorial and space salesman. IMPULSE is too new and small to exhibit such luxury. We can take the guise of publisher here and ask your assistance in selling more advertising space. The section will be bankrupt if we cannot maintain a pay-as-you-go dialogue. All we ask here is your call or note with a name to contact. Peter Johnson Associates will do the rest. I think you will agree that for the price of an ad in this publication an advertiser will receive high readership with a very exclusive audience.

BILL ASHMAN,
EDITOR

THE CHAIRMAN SPEAKS

"Engineering Management Chapter now being organized"



GUNTHER KARGER

Management is a key element in the planning, design, production, installation, operation and maintenance of systems. What is management? It is leadership, motivation, planning, coordination, control and, of course, decision making.

Why is IEEE interested in management? Advancement in technology has resulted in new materials, devices, systems and design techniques. New approaches to technical problems are uncovered nearly every day. Likewise, many new tools have been made available to management over the past few years and it is vitally important for the manager to be aware of new management concepts. The IEEE Group of Engineering Management was organized to provide IEEE members the opportunity

of learning new management methods and techniques and keeping up with important management trends. Computer assisted Management Information Systems, Configuration management, Advance planning, personnel selection and motivation are a few examples of Management Group concern.

The Engineering Management Group publishes its quarterly Transactions and Newsletter which have been of significant benefit to many management oriented engineers. NOW, LET'S

continued on page 6

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CLIFF E. MATTOX

Vice Chairman,
Historian



The institute of Radio Engineers was founded in 1916. Only a very few Charter Members survive today. The Society grew to a membership of approximately 40,000 by the fall of 1953 when the Central Florida Section, IRE was organized. About 200 engineers, scientists, and technicians residing within 150 mile radius of Patrick AFB then, were members or associate members of the Society. They petitioned and formed the Central Florida Section IRE. The IRE merged with AIEE in 1963 and the Institute of Electrical and Electronic Engineers, Inc. was formed. It now has a membership exceeding 140,000.

The first Chairman of this Section in 1953, was Mr. Arthur Beach. His position then was Deputy Director of the Air Force Missile Test Center at Patrick AFB, Florida. Now, he is Director of Engineering, Symetrics, Inc. Section Chairmen of following years were:

- 1954 - **Mr. Homer Denius**
President of Radiation, Inc.
currently Chairman of the Board of Radiation, Inc.
- 1955 - **Mr. Hans Scharla Neilson**
Sr. Engineer, Radiation, Inc.
currently Principal Engineer - same
- 1956 - **Mr. Ken West**
Chief Range Scheduling
AFMTC - retired 1964
- 1957 - **Mr. George Anderson**
Vice Pres. Dynatronics, Inc.
currently President-General Mgr. same
- 1958 - **Mr. Joe Kaeser**
Mgr. Range Support RCA-MTP-PAFB,
currently Cherry Hill RCA
- 1959 - **Mr. John Downs**
Director of RF Division of
Radiation, Inc.
currently Mgr. Radar Systems PAA
- 1960 - **Mr. Wilbert Hines**
Deputy Dir. MTD-AFMT-PAFB, currently
Technical Advisor-Directorate
Range Instrumentation, ETR-PAFB
- 1961 - 62 - **Mr. Cliff E. Mattox**
(change in Election date)
President Dbm Research Corp.
currently same
- 1963 - **Mr. William Haberhern**
Quality System Engineer Martin Co.
currently Mgr. Quality Systems
- 1964 - **Mr. Robert Marquand**
Principal Engineer Radiation, Inc.
currently same
- 1965 - **Mr. Phil Betts**
Consultant Engineer Bell Telephone Co.
currently — retired 1965
- 1966 - **Mr. Furman Clark**
Program Mgr. Mistrum ETR,
currently same
- 1967 - **M. LaVergne Williams**
Member of Technical Staff,
Aerospace Corp.
- 1968 - **Mr. Gunther Karger**
Research Engineer, Boeing Co.

The Membership of the Section increased to over 1000 by 1960. At that time about 250 members of the Section, who resided in the Orlando area, petitioned to activate the Orlando Section in order to better serve the Membership employed at the Martin Company of Orlando. The following year, 1961, the Gainesville Sub-Section of Central Florida/Canaveral Section petitioned for full section status and another 200 members of our Parent Section, who resided in the Gainesville area, formed the Gainesville Section. In 1965, IEEE Members of the Daytona Beach area petitioned the Canaveral Section to form the Daytona Beach Section. Again about 150 Members residing in that area now constitute the Daytona Beach Section. The Canaveral Section IEEE, in about 10 years lost over 650 of its original outlying membership that went to form other new Sections in order to more efficiently serve the professional membership of the Institute in their respective area. Now as of October 1, 1967, Canaveral Section again has 1000 members. It embraces only the area from Vero Beach, north to New Smyrna and east to the St. Johns River.

Regularly scheduled meetings now are normally held on the third Wednesday of each month, except July and August. To better serve the membership and hopefully increase attendance, the location of the meeting place may vary as well as the date of the meeting. The Canaveral Section IEEE monthly publication "IMPULSE" (formerly the Indian River Engineer) with a distribution of over 1200 copies should be consulted for dated news and meeting notices of this Section and its Professional Societies of the Area compiled by the Canaveral Council of Technical Societies. The Annual Meeting of the

Canaveral Section IEEE is held in June. It is also the Social Meeting of the year and almost without exception, the International President of the IEEE speaks and administers the Oath of Office to the newly elected officers at that time.

The Canaveral Section IEEE, before the merger of IRE and AIEE in 1962, was one of 13 Sections of Region III. It took in Washington, D.C., Baltimore, Philadelphia and the Southern States and totaled approximately 14,000 members. Since the merger, the IEEE Region III includes all states in the Southeast with some Sections in Ohio, Kentucky and Louisiana for a total of more than 33 Sections and has a membership of over 16,000. Washington, D.C., Baltimore and Philadelphia are not a part of Region III now. The Annual Conference/Meeting of the IEEE Region III will be held in Cocoa Beach, Florida in November of 1968. Over 1000 Members from all over the South are expected to attend the three day Technical Conference. Mr. Denton Clark, Manager of RCA Missile Project at PAFB is the Chairman for the Region III Conference.

Each year since the fall of 1961, the Canaveral Section IEEE in conjunction with Florida Institute of Technology and in cooperation with Air Force Missile Test Center, have jointly sponsored the Annual Fall Seminar on recent "Advancements in Space Technology" at the PAFB Theater. This year the Seventh Annual Seminar was held late in February and March instead of the usual November-December period. Among the leading Scientists lecturing at these series over the past six years were Dr. Stark Draper of MIT, on Guidance; Dr. Edward Teller, on Atomic Fission; the late Dr. Robert Openheimer, on Nuclear Explosions; Dr. Gerald Kieper, the Moon, and more than thirty other leading world authorities in their field. During the last several years, more than 750 scientists, engineers, management, Military and Civilian personnel, attended each lecture. This year (1967) Dr. Robert Payne, Director of Aerospace, Eastern Test Range Office, was the IEEE Co-Chairman and the Host Chairman for the Seminar Series. Dr. John Miller, Dean of Academic Affairs of FIT was the FIT Co-Chairman.

The Canaveral Section also have five Group Chapters organized within its membership. These Group Chapters include Communications, Technology, Aerospace Electronics, Reliability, Power and RFI Compatability. They hold periodic, highly technical meetings of their specialty on subjects of their immediate interests. All IEEE meetings including the Group Chapter Meetings are open to the interested public.

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CALENDAR

LOCAL

Nov. 22: "Digital Communications;" Speaker: Walt Frederickson, Radiation Incorporated; Time and Place: The Pines Restaurant, Indian Harbour Beach; Dinner: 7:00 P.M., Meeting: 8:00 P.M.

Jan. 20, 1968: "Advances in Strategic Communications;" Speaker: Mr. Don Worthington of DCA; Time and Place: TBA*.

NATIONAL & INTERNATIONAL

Oct. 4-6: Allerton Conference on Circuit & System Theory; Location: Allerton House, Monticello, Ill.; Sponsors: G-CT, Univ. of Illinois; Information: J. B. Cruz, Jr., Dept. of E.E., Univ. of Ill., Urbana, Ill. 61801 DL 8/1/67 (Abst.)

Oct. 17-19: Int'l. Symposium on Antennas & Propagation; Location: Rackham Bldg., Univ. of Michigan, Ann Arbor, Mich.; Sponsors: G-AP; Information: T.B.A. Senior, Radiation Lab., 201 Catherine St., Ann Arbor, Mich. 48108 DL 7/1/67 (Sum.)

Oct. 4-6: Ultrasonics Symposium; Location: Bayshore Inn, Vancouver, B.C., Canada; Sponsors: G-SU; Information: Burt Auld, Hanson Labs., Stanford Univ., Stanford, Cal. 94305 DL 8/1/67 (papers.)

Oct. 18-20: Int'l. Electron Devices Meeting Sponsors: G-ED; Location: Sheraton Park Hotel, Wash., D.C.; Information: B. J. McMurtry, Sylvania Elec. Systems, P.O. Box 205, Mountain View, Cal. 94040 DL 8/1/67 (Abst.)

Oct. 9-10: Joint Engineering Management Conference; Location: Jack Tar Hotel, San Francisco, Calif.; Sponsors: IEEE, 7 other Societies; Information: B. B. Winer, Westinghouse Elec. Corp., E. Pittsburgh, Penna. DL 4/1/67 (papers)

Oct. 18-20: Symposium on Switching & Automata Theory; Location: Univ. of Texas, Austin, Texas; Sponsors: G-C, Univ. of Texas; Information: R. E. Miller, IBM, Thos. J. Watson Res. Ctr., Box 218, Yorktown Hgts., N.Y. 10598 DL 8/4/67 (papers)

Oct. 9-11: Machine Tools Technical Conference; Location: Sheraton-Cleveland Hotel, Cleveland, Ohio; Sponsors: G-IGA, Cleveland Section; Information: Roger Larson, Gen'l. Elec. Co., 1020 Lakeside, Cleveland, Ohio.

Oct. 23-25: Nat'l Electronics Conf.; Location: Int'l. Amphitheater & Sherman Hotel, Chicago, Ill.; Information: P. E. Mayes, Univ. of Ill., Urbana, Ill. DL 5/1/67 (Abst.)

Oct. 11-13: Systems Science & Cybernetics Conference; Location: Statler Hilton Hotel, Boston, Mass.; Sponsors: G-SSC; Information: David Smith, Moore School of E.E., Univ. of Penna., 33 Walnut St., Phila., Penna.

Oct. 23-25: Symposium on Adaptive Processes; Location: Int'l. Amphitheater, Chicago, Ill.; Sponsors: G-AC, G-IT, G-SSC; Information: Same

Oct. 15-19: Electrical Insulation Conference; Location: Palmer House, Chicago, Ill.; Sponsors: G-EI, NEMA; Information: John Lenkey, Anaconda, 605 3rd Ave., New York, N.Y. DL 9/1/66 (Sum.)

Oct. 31-Nov. 2: Nuclear Science Symp.; Location: Statler Hilton Hotel, Los Angeles, Calif.; Sponsors: G-NS; Information: R. C. Manning, Lawrence Radiation Lab., P. O. Box 808, Livermore, Calif.

Oct. 16-18: Eastern Convention on Aerospace & Electronic Systems; Location: Sheraton Park Hotel, Wash., D.C.; Sponsors: G-AES; Information: D. R. Hagner, Bellcomm, Inc., 1100 17th St., N.W., Wash., D.C. DL 6/1/67 (Abst.)

Nov. 1-3: Asilomar Conf. on Circuits & Systems; Location: Asilomar Hotel, Pacific Grove, Calif.; Sponsors: IEEE, Naval P.G. Sch., Univ. of Santa Clara; Information: R. C. Dorf, Dept. of E.E., Univ. of Santa Clara, Santa Clara, Calif., DL 9/1/67 (Abst.)

Oct. 16-18: Joint Materials Handling Conference; Location: Pfister Hotel, Milwaukee, Wisc.; Sponsors: G-IGA, Milwaukee, Section, ASME; Information: —

Nov. 1-3: Northeast Research & Engrg. Meeting (NEREM) Location: Boston-Sheraton Hotel, Boston, Mass.; Sponsors: New England Section; Information: W. E. Morrow, Jr., MIT Lincoln Lab., Lexington, Mass. 02173 DL 6/15/67 (Abst.)

Oct. 16-18: Fall URSI-IEEE Meeting; Location: Michigan Union, Univ. of Michigan, Ann Arbor, Mich.; Sponsors: URSI-IEEE; Information: T.B.A. Senior Radiation Lab., 201 Catherine St., Ann Arbor, Mich. 48108 DL 8/1/67 (Abst.)

Nov. 2-3: Fall Product Assurance Conference; Location: Waldorf Astoria, New York City; Sponsors: Met. N.Y. Sections et al; Information: Richard Jacobs, Westinghouse Elevator Div., Jersey City, New Jersey.

Nov. 6-8: Reliability Physics Symposium; Location: Statler Hilton Hotel, Los Angeles, Calif.; Sponsors: G-ED. G-R Information: George Jacob.

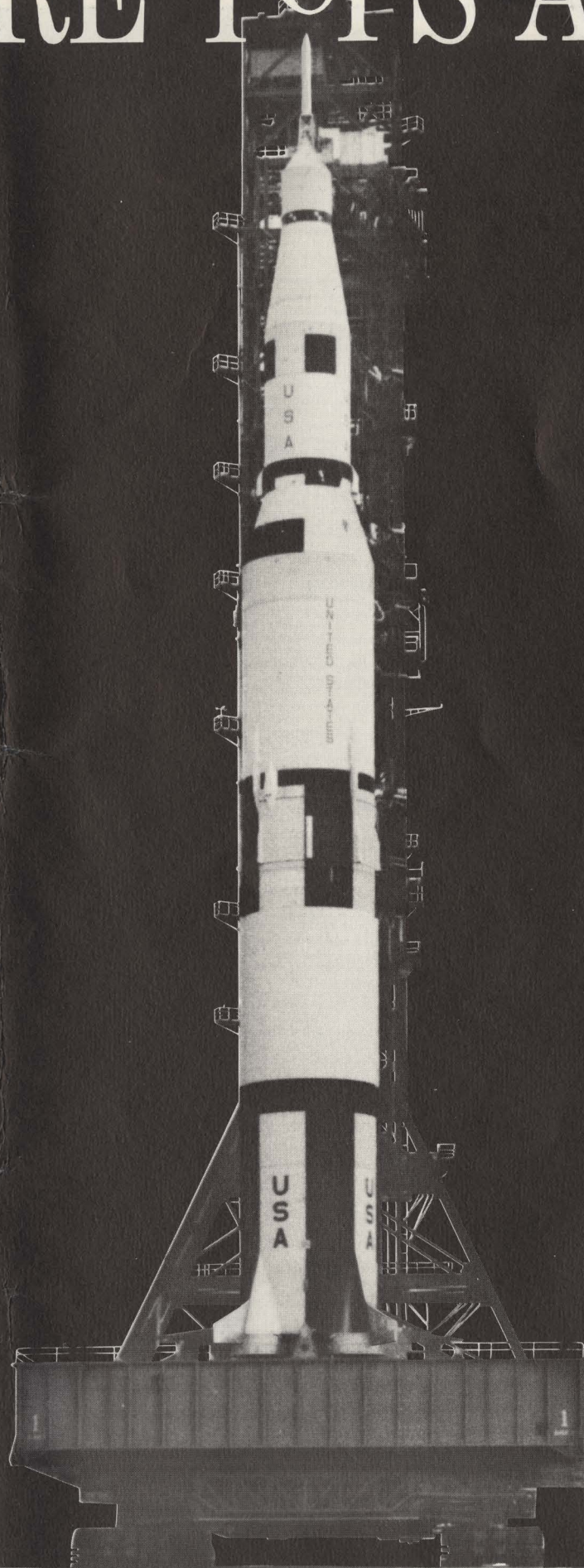
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REPORT

THE ROYAL OAK



The September meeting marked the first time the Canaveral Section meeting was held in Titusville. The Royal Oaks Country Club provided a most pleasant setting in which to enjoy a delicious dinner and meeting. Judging from the comments later, it would be desirable to hold a future meeting there.

Gus Karger, Section Chairman, led the first meeting of the fall season, introducing the section officers, group chairman, and committee chairman.

The meeting program featured the Dragon Weapon System. The history of McDonnell, prime contractor, was briefly traced to the development of its permanent facility at TiCo Airport. Mr. Raymond D. Hill, Jr., Manager-Florida Division, McDonnell Astronautics Company, presented the program in the absence of R. W. Lowe.

The programs selected for the coming month will be broad in scope to provide information and be of particular interest to a large cross section of the Canaveral Section. The professional group (P.G.) will hold separate meetings within their areas of special interests. Guests welcome at monthly meetings. ♦

CHAIRMAN (cont'd)

ORGANIZE A LOCAL CHAPTER THAT WILL CAPITALIZE ON THE OPPORTUNITY CREATED BY THE EXISTENCE OF THE GROUP! Presentations of leading management personnel, meetings during which chapter members can discuss mutual interests and be personally exposed to new approaches for the solutions of their management problems and fellowship are but a few advantages of an active local chapter.

Mr. Don C. Madrid of the Boeing Company is the organizer of this chapter and he asks that all interested IEEE members contact him for information.

Presently, there are 37 Engineering Group Members in the Canaveral Section but I am certain there are many more management oriented engineers who would benefit through active participation in a local chapter.

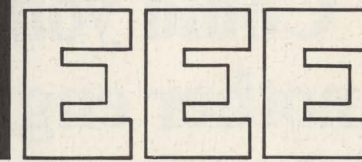
The Section Executive Committee will give every support to the formation of this chapter and as your Chairman, I ask each management oriented IEEE member to contact Mr. Madrid for information and express his desire to actively participate. Contact:

Mr. D. C. Madrid The Boeing Company
M/S FP-76 Cocoa Beach, Fla.
Office: 784-3461 Residence: 773-2168 ♦



JOINT OCTOBER SECTION MEETING

Speaker
GEORGE A. HENDERSON
System Effectiveness Division
Naval Training Devices Center
Orlando, Florida



The October meeting of the IEEE, Canaveral section will be a joint meeting held with the student chapter of Florida Institute of Technology. The meeting will be held October 13th on the campus of F.I.T. Dinner will be at 7:30 p.m. with the meeting scheduled for 9:00 p.m.

The speaker for the joint meeting will be Mr. George A. Henderson, Head, Systems Effectiveness Division, Naval Training Devices Center, Orlando, Florida. Mr. Henderson's subject will be *The Engineering Revolution of the Seventies.*

There is a large student chapter at F.I.T. and it would encourage the young people of IEEE if members matched them in numbers. Reservations are required—

please call: Dr. Harry Weber, F.I.T., 723-3701, Ext. 57 or Harry McElveen, Southern Bell, 636-9007.

your speaker, GEORGE A. HENDERSON

Born in Nashville, Tennessee, Mr. Henderson has a BS in Mechanical and Electrical Engineering from Vanderbilt and a Masters in Engineering Administration from Syracuse U.

Mr. Henderson's career spans an Assistant Professorship in Mechanical Engineering at Vanderbilt; an Associate Professorship at Syracuse; Chief Project Engineer at the Redstone Arsenal in research, development and production of free-flight rockets and solid propellants; Chief Reliability Engineer, Redstone Ar-

senal, organizing, developing and implementing policy and scoring systems for the Army; Principle Staff Engineer, reliability policy programs at Martin Orlando; Manager of Quality Assurance & Reliability for the Shilleighle Missile, Redstone Arsenal, to his present position at Orlando, Florida.

Mr. Henderson, served from 1944 to 1946 as a Naval Ordnance Officer, Washington, D.C., concerned with, and holding many patents on, electro mechanical torpedo explosions. ♦

SECTION FINANCE REPORT

Financial Report to Members of the IEEE Canaveral Section

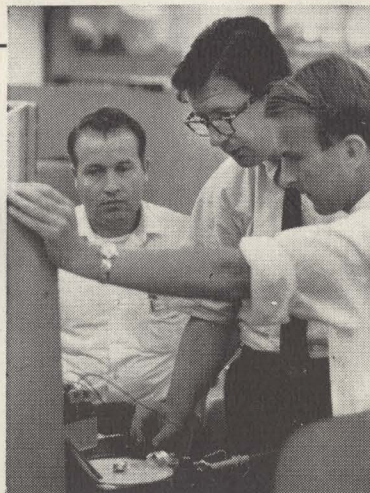
The annual audit of this Section's accounts and records has been completed by the accounting firm of Hentschel & Choate and the final report submitted to the Executive Committee. A copy is available for inspection by any member of our Section.

Because of the length of the report, I have abstracted what I believe are the significant points in which you might be interested and have presented a summary below. If you have any questions regarding either the present financial condition or our proposed expenses for the coming year, I can be reached at 727-4420.

Cash balance as of August 15, 1966	\$3,542.71
Receipts	1,885.93
Disbursements	2,082.24
Cash balance as of June 30, 1967	\$3,346.40

Walter R. Hayne
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