

ELECTRICAL ENGINEERING®

In 1968, did your IEEE entity get from you "good measure, pressed down, shaken together, and running over?"

For 1969, plan to give it—two ways: As to quantity, whistle and pile it on. As to quality, admit to a besetting problem and sweat it out!

(Goes for E. E., too. So help me—Ed.)

WRAP-UP. January ushers in annual turnover in personnel in most IEEE units* except Sections. December's the month for smooth transition: annual reports of achievement (some are required—see 5th item following) . . . critical evaluation of past administration . . . status of work-in-progress . . . advice from outgoing to incoming personnel . . . making ready to pass the gavel . . . turnover of unit's records.

*What is an IEEE unit, or entity? See list in footnote, last page. Present personnel: detailed in Organization Roster Sept. '68. (Copy, Emily Sirjane; address, same footnote)

"CHECK-CHART FOR CHAIRMEN—Especially New Ones," by Blackmon, was re-issued in green Supplement to E. E. 11, June '67. Best available "check-off before take-off" for chairmen. Pertinent questions for Yes-No answers under headings: How Is My Background? . . . Planning Ahead? . . . My Organization? . . . Operating efficiency? (Copy, Audrey van Dort)

TECHNOLOGY'S ONE WORLD. IEEE's overseas Regions cover wide areas; have few Sections as yet able to form Group Chapters. Still, it is important that Group information flow freely to the

member-nationals and that they be urged to join Groups.

Director Williams' (Region 8—Europe) solution is appointment, in each of his 13 Sections, of a "Section Coordinator of Groups" to stimulate interest in all 31 Groups. Each coordinator will strive to be, upon request, any Group chairman's correspondent and right arm for Group/Section relations. An exception would be where there are actually established Chapters (one now in each of two Sections); their chairmen will continue to correspond directly with the Group. (For Region 8's 13 Sections, see Organization Roster Sept. '68, p. 57; add Denmark, new.)

Such Coordinators can help in Group recruiting by distributing prospectuses and where language differences exist, by interpreting them. Also, to a feasible extent, they can encourage a return flow of technology from European sources to the Groups. Thus there is offered a valuable potential addition to what E. E. in Aug., p. 3, called IEEE's "pipeline-reservoir system which technology on a global scale can both feed and tap." Out of the arrangement some Groups will doubtless grow in cosmopolitan stature as well as in size.

Initiative lies with Group AdComs. To put the facility to work, pick names, addresses of Section chairmen from the Roster; ask them whom they have named as Section Coordinators of Groups. Carry on from there. In case of difficulty, write the Regional Director (Roster, p. 57).

NEEDLES AND PRODS

GIVE APPOINTMENTS PRIORITY. For Standing Committees and Groups having subsidiary functional committees, first order of business in December is for incoming or holdover chairmen to fill out the full complement of appointments in their units so as to announce them without delay early in January.

The new chairmen and members of Standing Committees for '69 will be appointed by the IEEE Board of Directors (BofD) and the Executive Committee (Exec-Com) on Jan. 7—a one-day culmination of a 9-months' process beginning last April. (For calendar, see Statements of Policy, last page.) Prospective chairmen now know the prospective members of their committees.

The Groups, by appropriate elective process, by now should have designated their principal '69 officers and Administrative Committees (AdComs).

What remains to be done is to prepare each Standing Committee and Group organization, internally, for quick change of command after January 7.

STATEMENTS OF POLICY. Working members of IEEE should have in their 3-ring binders and be as familiar with the 58 governing Policies (contained in 25 numbered Statements printed on blue paper) as with the Bylaws (white). A revision of the Statements, to Sept. '68, was mailed to Sections and to Technical Activities Board (TAB) in October. (Copies, Pat Corcoran or Emily Sirjane)

Revision reflects changes already reported in E. E. this year: Feb. p. 6, on Equipment Standards, #24; Apr. p. 2, International Representation in Standards, #22; Apr. p. 3, Non-Member Fees at Conferences, #2-J-12; Apr. p. 3, Bonding Costs, #8-C; June p. 2 and Supp., Advertising, #25.

Unchanged is the important and useful calendar and schedule for IEEE Elections & Appointments, on the back page (formerly Q, now S).

1968 YEAR-END REPORTS DUE. Annual Section financial reports as of Dec. 31 are

due Feb. 15 from all Sections; including those in Regions 7 to 10. (See Statement of Policy #11-C.) In U.S. Regions 1 to 6, because such reports are vital to preparation of IEEE's consolidated Federal Information Return, Section financial returns are due Feb. 1 on forms to be provided.

Group chairmen must prepare annual reports for the Technical Activities Board (TAB) chairman. See TA Manual, Sec. III-H, check-list on p. III-10, items 8, 9. Guidelines for 1968 reports are being prepared (TAB OpCom Minute 4.3, Oct. 11, p. 58, last 2 paras.).

Bylaw 407.10 requires a financial statement for '68 from Student and Student Associate Branches in January. . . TA Manual, p. I-6 and Statement of Policy #21-B require appointees to Outside Organizations, for each year of appointment (usually a calendar year), to make a brief letter report to the chairman of the Intersociety Relations Committee (ISRC), summarizing activities. . . Check with pertinent Manual now to see whether a report will soon be due from your unit.

CHALLENGES AND OPPORTUNITIES

NOMINATIONS FOR 1970 ELECTED OFFICERS. Forms for recommending candidates for 1970 President, elected Vice President, and 1970-72 Directors-at-Large are available. Any IEEE member or unit may submit names, qualifications. Deadline, Feb. 1. See Statement of Policy #9 (1); Bylaw 311.1. (Forms, Emily Sirjane)

INTEREST-MATERIAL FOR MEETINGS. Time was when Meetings & Papers committees of Sections, Chapters, conferences, were limited to scheduling obtainable local speakers. Nowadays, first-rate supplements are available for the asking, in the form of sound-movies, video tapes; and slide-tape lectures. Some make excellent 10-to-30-minute curtain-raisers, especially if followed by a discussion sparked by competent local leaders prepared by preview.

Is your unit prepared to project such material? To obtain versatile equipment is a worthy claim on local funds, as a continuing-education service to members.

Ring-portfolios: "IEEE Educational Activities," have been circulated to Section and Group chairmen and Branch Counselors. Listed and described are films, slide-lectures, to be loaned to units; also, other-society, university, industry, governmental sources of films for loan. Some material extends to full-fledged seminars. (Inquiries, Jack Kinn)

EDUCATIONAL SHORT COURSES continue to multiply. Watch Spectrum for list of current university offerings. IEEE's own successful opener was at its March 1968 Convention. Educational Activities Board's (EAB) latest thrust (see E. E. Aug., p. 6, for philosophy) is to offer two new 2-day tutorial courses: Computer Programming; Problem-Solving Using Time Shared Computers. They will be given in conjunction with major conferences at Cocoa Beach, Florida; Chicago, Los Angeles, New York, Amsterdam, Neth.; San Antonio, in that order, between Nov. '67 and Apr. '68. (Folder giving course particulars, instructors, hotels, dates, fees, Jack Kinn)

The New York booking is on Thurs., Fri., 1969 Convention week, March 27-28.

NEXT YEAR'S AWARDS. Call for nominations for Medal of Honor, Major Annual, Field, Prize Paper awards appeared in Spectrum, Nov., pp. 22-23. Note various deadline dates. Sections, Groups, other units, individual members, are urged to nominate qualified candidates. (Information, forms, Una Lennon. In writing, name the award, since forms are tailored to each one.)

NEXT YEAR'S FELLOW NOMINEES. Fellow Committee reorganizes in Jan. '69 to receive proposals for elevations to Fellow grade, effective Jan. 1, '70. Pink Supplement, this E. E., gives particulars; note deadline Apr. 30.

Any IEEE unit, or any person except the "candidate" may propose or sponsor a nominee for elevation to Fellow. To succeed, specified procedure must be followed: this is facilitated by use of a kit, with instructions, forms, obtainable on request. (Kit, Emily Sirjane)

Paragraph 4 of Supplement lists 9 criteria applied in making selections, of which the 8th is "additional support of the nomination by an IEEE organizational unit." Para. 6 shows the only way such support can be made to count in behalf of an initial nomination; para. 8, the same, in behalf of an updated renomination.

1969 MARCH CONVENTION. The technical program will be finalized by Dec. 2. (Particulars, Howard Schumacher). . . Most of the successful features of the 1968 Convention will be repeated. . . A convocation of Life Members will be held. . . Two tutorial courses-for-fee will be offered (see 3rd para. above). . . Meeting again will be: the Forum of Section Chairmen; the Panel of Technical Editors, editors of Section publications, the Group newsletter editors. . . The microwave presentation will be repeated. . . Dr. Julian Tebo is working up two Film Theaters (Coliseum and Hilton); he'd appreciate being directed to top-notch films known to others to be available (care Howard Schumacher).

The Convention Committee strongly urges that conflict between committee meetings and technical sessions held convention week be avoided. Chairmen should therefore examine the technical program schedule before asking for committee-room reservations. (Reservations, first-come-first served, Emily Sirjane)

HOSTING VISITORS FROM ABROAD. As a service to IEEE units acting as hosts to Overseas delegates, E. E. again circulates the buff Supplement containing guidelines and applicable Statement of Policy #2-Q. (Additional copies, Jack Kinn)

TOP-SIDE DEVELOPMENTS

ELECTION RETURNS. See last page for Stop Press announcement of results of members' balloting for 1969 President, Vice President, Directors-at-Large, Regional Directors.

1969 CHAIRMEN OF COMMITTEES, BOARDS. While not actually appointed

until 1969 BofD and ExecCom meet Jan. 7, as information only, recommendations of the 1968 BofD were as follows: Fellow, W. H. Hayt, Jr.; Life Member Fund, J. G. Brainerd; Tellers, F. A. Wahlers. Appointments in accord with stated Bylaw: Intersociety Relations, W. K. MacAdam (Bylaw 309.6); Long Range Planning, S. W. Herwald (Bylaw 309.8); Nominations & Appointments, W. K. MacAdam (Bylaw 309.10). Open appointments for 1969 Assembly or BofD: Awards, a 1969 Director (Bylaw 305.1); Technical Activities, an Assembly-elected Vice President (Bylaw 308.1); Publications, an Assembly-elected Vice President (Bylaw 307.1); Educational Activities, a 1969 Director (Bylaw 306.1).

Recommendations of the 1968 ExecCom were: Admission & Advancement, W. E. Scholz; Finance, the Treasurer, appointed by Assembly (Bylaw 309.3); History, H. Pratt; Internal Communications, D. B. Miller; Membership & Transfers, M. F. Jessen; Professional Relations, deferred; Sections, the Vice President elected by the members (see last page).

FELLOW ELECTIONS based on 1968 nominees were announced by BofD Nov. 19. Presentations will take place at Section ceremonies, with additional recognition at March Convention banquet. List of new Fellows, by Sections, has gone out. Names, citations, in press release, to be repeated in January Spectrum. (Copy, release, Lee Nicol; copy of list-by-Sections, Emily Sirjane)

OPINION RESEARCH REPORT. (Background, E. E. Oct., p. 1.) President Herwald discusses fully in Dec. '68 Spectrum the principal results and significance of the Opinion Research Corp. (ORC) report, in an article: "The IEEE membership attitude survey—What it means to you."

The 8 numbered steps under "Implementation programs," towards the end of the article, should be digested by Group officers and AdComs, Transactions editors, Sections and Chapters (adaptation to meetings), conference technical program committees, Standing Committees and Boards, and General Committees of TAB.

STANDARD ACTIVITIES EVALUATION. Currently under way is "a study of all IEEE standards activities * * instituted at high priority, which includes the work of the Standards Committee, personnel, Group standards participation, and standards policies, with a view toward strengthening and expanding standards efforts to meet our members' needs, now and for the future, both nationally and internationally." Ivan G. Easton, Senior Vice President, General Radio Co., 22 Baker Ave., West Concord, Mass. 01781, will head the study. Interested members should send their comments and suggestions this month to Mr. Easton, copy to President S. W. Herwald at IEEE. Bylaw 308.4(4) presently defines Standards Committee duties.

GOALS OF ENGINEERING EDUCATION. E. E. 8, Dec. '66, p. 3, noted that 1966 BofD had taken steps to evaluate the American Society for Engineering Education (ASEE) and the Engineers Joint Council (EJC) Reports on the controversial 1965 "Preliminary Report" of the Goals of Engineering Education Committee operating through ASEE. One point at issue (see Spectrum, Dec. '65, p. 84) was a recommendation that, while "four-year bachelor's degree programs, leading to an introductory engineering degree," should continue to be offered, the first professional degree in engineering should be Master of Engineering (without qualifying adjectives or phrases), awarded upon completion of a 5-year college course. ASEE's "Final Report," considerably modified by reactions, did not appear until 1968. In August, BofD had prepared and has now approved an 8-point "Position Statement" on the Final Report's recommendations. The Position Statement will appear in Dec. '68 Spectrum, p. 81. A copy of the Final Report itself is obtainable for \$2 from ASEE Publications, 2100 Pennsylvania Ave., N. W., Washington, D. C. 20037. Comments addressed to General Manager Don Fink will be passed to all concerned.

PUBLICATION NEWS

VOLUNTARY PAGE CHARGES are becoming more popular with Group Transactions

NOMINATION OF CANDIDATES FOR FELLOW OF IEEE

April 30, 1969 has been established as the deadline date for completed nominations of candidates for Fellow grade of IEEE.

The IEEE Bylaws define the qualifications for this grade as follows: "The grade of Fellow is one of unusual professional distinction and shall be conferred only by invitation of the Board of Directors upon a person of outstanding and extraordinary qualifications and experience in the fields of electrical engineering, electronics, radio, allied branches of engineering or the related arts and sciences, who meets the requirements for Senior Member as stated in these Bylaws and who has been a member in any grade for a period of seven years preceding the year of nomination, except that the seven-year provision in any individual case may be waived for cause by the Board of Directors."

A Fellow grade nomination form and a minimum of five confidential Fellow grade reference forms must be submitted by the deadline date of April 30, 1969. Appraisal of candidates to determine their order of qualification is based solely upon the information submitted. This makes careful and complete preparation of all forms essential if each candidate is to receive the highest appraisal to which he is entitled. The duty of the Fellow Committee is to recommend to the Board of Directors, from those presented to it, the most deserving candidates (up to a maximum number allowed under the IEEE Bylaws). To assure objectivity, the accomplishments of each are appraised in a number of reasonably well-defined categories (more fully described in the next paragraph).

It is of prime importance to read the leaflet "IEEE Fellow Grade Nominations" before serious consideration of possible nominees. This brief publication has just been revised in an effort to assist in the effective preparation of nominations. Following are the criteria upon which nominations are appraised; all are important; those of primary emphasis are listed first: technical contributions, theoretical or practical; personal distinction earned, as evidenced by positions held, operational as well as technical; output of technical papers and patents; evaluations by confidential references; duration of particularly distinguished professional activity in positions of major responsibility; duration of active participation in the profession; service to IEEE and its predecessor societies; additional support of the nomination by an IEEE organizational unit, such as Section, Group, Committee, etc.; and service to the engineering community, broadly interpreted, other than through IEEE.

To insure receipt of the required number of references by the April 30 deadline, some sponsors have found it desirable to solicit as many as seven or eight references; others have followed the excellent plan of monitoring the responses by requesting those named as references to indicate, on a postal card supplied by the sponsor, the date when the form was completed and mailed to the Fellow Committee. All qualified reference forms submitted on behalf of a Fellow grade candidate are considered by the Fellow Committee.

When the nomination has the formal support of a Section, Group, Committee, or organization of equivalent standing (or more than one of these), the candidate's competitive position will be enhanced only if such additional support is documented by a separate written statement from each entity to the Fellow Committee, signed by an appropriate officer. The statement (which is in addition to the five reference forms) should be concise and yet provide all relevant facts in support of the nominee; it must be received by the Fellow Committee by the April 30 deadline.

Should a sponsor of a candidate outside the United States and Canada (i. e. Region 8, 9, or 10) certify that he is unable to furnish the names of five Fellow grade references on the nomination, the Fellow Committee may, in its descretion, accept references from other IEEE members, preferably Senior Members, who are engineers or scientists of recognized standing.

The number of nominations received each year far exceeds the number of new Fellows permitted by the IEEE Bylaws. Inevitably, favorable action on a large number of nominations is impossible. In these cases the proposer (not the nominee) is notified. Such candidates are not reconsidered in a subsequent year unless a new, updated nomination form is submitted by the regular deadline date. Likewise, new written statements of support by a Section, Group, Committee, etc. must be filed by the regular deadline date. Reference forms submitted on behalf of a candidate are acceptable to the Fellow Committee for a period of three consecutive years, including the year of original submission. However, new reference forms may be submitted. All qualified reference forms submitted on behalf of a candidate are considered. Members of the Board of Directors, the IEEE Staff, or the Fellow Committee are not eligible to serve as references on a Fellow grade nomination.

All information furnished on behalf of a candidate must be typewritten so that legible copies can be duplicated and furnished to all members of the Fellow Committee.

Fellow grade nomination kits are available from Miss Emily Sirjane, IEEE Staff Secretary of the Fellow Committee. These kits contain an FC-1 Form, seven reference forms, seven reference envelopes, and a copy of "IEEE Fellow Grade Nominations."

GUIDELINES for Arrangements for Invited Visitors to the United States
from the Soviet Union and Eastern European Nations

Visits of United States citizens to other countries, and of citizens of other countries to the United States, constitute an important element in IEEE relations between the countries involved. They can contribute significantly to the increase in scientific and technological understanding that we seek. The following guidelines have been established to provide a basis for furthering this increase in scientific and technological understanding. They were developed specifically to facilitate an exchange of visitors between the United States and the Soviet and Eastern European Nations, but they may serve as useful guidelines in other situations.

In the case of Soviet and Eastern European visitors, the role of the United States Host (sponsor) is central to the success of the visit and its contribution to the objectives of the special exchange program, now being carried on by the IEEE within the framework of the formal exchange program in effect between these countries and the United States. The ISRC Subcommittee on Cultural and Scientific Exchanges Between the United States and the Soviet Union and Eastern European Nations has been established to ensure that such exchanges are properly carried out and should be called upon for advice about proper procedures to follow in making suitable arrangements. The Secretary of this Subcommittee is responsible for maintaining current awareness of activities in this area.

If he is to fulfill his role, the Host must be prepared to assume a number of responsibilities in cooperation with the cognizant IEEE committees and Institute staff and, when required, with the departments of the United States Government that are engaged in operating the exchange program or are effected by it.

The Host is expected to do the following:

A. Invitees from Countries Other than the Soviet and
Eastern European Nations

Consider such factors as: previous history of invited visits by citizens of that country; their proposed itinerary; local facilities available for entertaining them; providing suitable interpreters, etc. in arriving at an overall plan to make the visits as mutually satisfactory as possible. The IEEE International Convention Reception Committee may be able to offer advice and help.

B. Invitees from Soviet and Eastern European Nations to the United States

1. Consider the responsibilities outlined in "A" above.
2. In order to facilitate the issuance of a visa, communicate with the secretary of the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations as early as possible and provide the full name, address, and, if available, the date and place of birth of the prospective visitor. The secretary, in turn, will then communicate this information to the U.S. Department of State, which will set in motion the machinery for consideration of the visitor as a special case under the provisions of the McCarran Act.*
3. Arrange in advance with the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations and the U.S. Department of State the itinerary that the visitor will follow in the United States. Every effort should be made to include in his itinerary as many visits of interest as the Host resources and the U.S. Government restrictions allow.
4. Arrange for the visitor to be met at the port of entry into the United States (usually New York), and assist him during his visit in this country, and see him off upon departure. This activity should be accomplished with graciousness and hospitality -- not with the attitude of policing the visitor.

* It should be noted that, under the provisions of the Immigration and Nationality Act of 1954, specific approval of the Attorney General of the United States is required for the entrance into the U.S. of any individual who has received a visa by virtue of waiver of the regular provisions of this act and that a formal report on each such exception must be made to the Congress of the United States.

5. Engage the services of an American travel agency, if necessary, to assist in arranging transportation, hotel and any necessary interpreter facilities for the visitor. If such an arrangement is made with the travel agency, the sponsor should make sure that the travel agency is aware of these responsibilities.
6. Insure that the visitor follows the agreed itinerary and does not deviate from it without prior consultation between the Host and the U.S. Department of State. When any deviations are requested by the visitor, the Host should try his best to secure permission for such deviations, provided they conform with the spirit of the exchange and do not violate security regulations.
7. Consult with the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations and the U.S. Department of State before making any changes in the itinerary, including additional professional visits, new routing, new scheduling, or requests for extensions of authorized stay in the United States.
8. Write to the U.S. Department of State, copy to the secretary of the ISRC Subcommittee on Cultural and Scientific Exchanges between the United States and the Soviet Union and Eastern European Nations, to confirm the departure of the visitor and to describe any special problems that may have arisen.

It is IEEE policy to make the stay of all invited visitors as enjoyable and rewarding as possible. In no instance should the IEEE impose limitations on length of visits or freedom of access and mobility beyond those imposed by U.S. Government regulations. The Host is expected to exercise good judgment in applying the principles set forth in the foregoing.

POLICY STATEMENT 2-Q

HOSTING INVITED FOREIGN VISITORS

The use of conference funds for the purpose of hosting foreign visitors, who are specially invited to participate in IEEE-sponsored meetings or conferences, are a legitimate conference expense if the conference chairman deems such activity to be beneficial to the objectives of the meeting. Such support, excluding travel expenses, should be included in the conference budget submitted for the approval of the General Manager. When such a budget item is requested, the chairman of the conference should establish a committee specifically charged with the responsibility of acting as host to these visitors.

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

INCORPORATED



INDUSTRIAL ELECTRONICS AND CONTROL INSTRUMENTATION

GROUP



THE FOXBORO COMPANY
Foxboro, Mass. 02035

October 31, 1968

Dr. Ivan S. Coggeshall
Editor: IEEE ELECTRICAL ENGINEERING
345 East 47th Street
New York, New York 10017

Dear Dr. Coggeshall:

Electrical Engineering I read with interest, but sometimes, I suspect, with not enough attention. Sometimes, I discover an item I missed months before. For example, EE 15-2, Third-Generation Computer for delivery March, 1969, and EE 19-4 referred me back to EE 12-5. So, here is Idea No. 1239. Many of the 160,000 members have a real interest in the IEEE computer. Short of visiting headquarters and bothering various busy people, how can we become informed about what is going on? It is possible I missed the answer months ago.

Referring to EE 15-4, chapters as Luncheon Clubs, "Idea No. 1238", I offer Idea No. 1240. As background, I am familiar with Boston, and to some extent, New York. While there is an MIT Club in New York, in the home area of MIT, Cambridge-Boston, there is only a Luncheon Club. I believe that the explanation is that most of the MIT people in the Cambridge-Boston area can get to MIT itself when it is important and feel no need for a local club.

Correspondingly, in Greater New York, including the Long Island, New York, North Jersey and Princeton sections, there is low Group Chapter activity because most of the section members can readily get to Headquarters, and have no need for chapter activities. My idea is to set up a Luncheon Club Facility either at Headquarters or some other suitable location. There should be little difficulty in obtaining luncheon speakers and little difficulty in getting Chapter sponsorship for a meeting every day. Other cities like Philadelphia, Chicago, etc., should be able to use this idea. The point of this idea is in EE 19-1, MEETINGS, PAPERS, PEOPLE are the marrow of IEEE's substance--especially people, meaning all our members.

Dr. Ivan S. Coggeshall

-2-

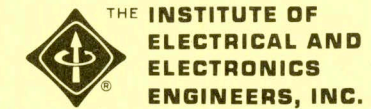
November 1, 1968

This leads to Idea No. 1241. Let us remember what IEEE is--an Institute of Engineers. All the PEOPLE are members of an ELITE: not just anyone off the street, but individuals whose qualifications for membership have been checked by the primary standing committee on admission and advancement. In a fraternal order, the chief executive of a lodge may still be a blue collar worker out in the shop or in the street, but in IEEE, let us tell it like it is: the elected and appointed officers are a SUPER ELITE, often executives in their corporate organizations, and quite often they attend our meetings at company expense. That is the way it is, but that is the back of the coin. Let us tell it like it is on the face of the coin. As members of the Institute, we may honor outstanding individuals, and we may accept their services in high elective and appointive offices, but no member is automatically ineligible; no member is a "peasant." We are all "IN." We must not forget the item EE 19-1, headed, "Challenges and Opportunities, Performance of a Promise."

Sincerely,

Alfred P. Steensen
Alfred P. Steensen
G-IECI Newsletter Editor

das



E. E. No. 20
December 1968

SPEAKERS DIRECTORY

The information in this Directory was obtained from reports of meetings held by Sections, Subsections and Group Chapters during the period Sept. 1, 1968 through Nov. 8, 1968. Section officers may be contacted when address of speaker has not been furnished to IEEE. (Section officers are listed in IEEE Organization Roster)

Section meetings sponsored by Group Chapters are identified by Group Codes shown below.

<u>Group Code</u>	<u>Group</u>	<u>Group Code</u>	<u>Group</u>
G-AFS	Aerospace & Electronic Systems	G-GE	Geoscience Electronics
G-AP	Antennas & Propagation	G-IECI	Industrial Electronics & Control Instrumentation
G-A&E	Audio & Electroacoustics	G-IGA	Industry & General Applications
G-AC	Automatic Control	G-IT	Information Theory
G-BTR	Broadcast & TV Receivers	G-IM	Instrumentation & Measurement
G-B	Broadcasting	G-MAG	Magnetics
G-CT	Circuit Theory	G-MMS	Man-Machine Systems
G-ComTech	Communication Technology	G-MTT	Microwave Theory & Techniques
G-C	Computer	G-NS	Nuclear Science
G-E	Education	G-PMP	Parts, Materials & Packaging
G-ED	Electron Devices	G-P	Power
G-EI	Electrical Insulation	G-R	Reliability
G-EMC	Electromagnetic Compatibility	G-SU	Sonics & Ultrasonics
G-EMB	Engineering in Medicine & Biology	G-SSC	Systems Science & Cybernetics
G-EM	Engineering Management	G-VT	Vehicular Technology
G-EWS	Engineering Writing & Speech		

REGION 1

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Berkshire	John Holeman G. E. Co., R&D Cntr. Schenectady, N. Y.	"Development of Holography & Applications in Industry"		9/9/68
	Raymond Stone FAA, 154 Middlesex St. Burlington, Mass.	"Air Traffic Control"		10/8/68
	Richard Samolis Northeast Utilities Hartford, Conn.	"Northfield Mtn. Pumped Hydro Project"	G-P	9/19/68
Binghamton	T. D. Reimers Consolidated Edison New York, N. Y.	"Cable Transmission of EHV & UHV Power"	G-P	10/21/68
	Gilbert Hulme G. E. Co., P. O. Box 5000 Binghamton, N. Y.	"Laser Ranging From Helicopters"	G-AES	9/16/68
	Karl F. Miller G. E. Co., 1 River Rd. Schenectady, N. Y. 12305	"Application of Gas Turbines to Electric Utility System"	G-P	10/23/68
Boston	Dr. C. Burke Swan Bell Telephone Labs., Inc. Murray Hill, N. J.	"Have We Reached an Impasse with Impatts?"	G-ED G-MTT	9/18/68
	-F. J. Lockhart Dow Corning Midland, Mich. -T. Stokebrand Digital Equip. Corp. Maynard, Mass.	"Encapsulation of Active Devices"	G-PMP	9/26/68
	-J. Shapiro Raytheon Co. Bedford, Mass. -I. Bosinoff Mitre Corp. Bedford, Mass.	"Computer Aided Circuit Analysis"	G-R	9/10/68
Lynn (SS)	-C. R. Buffer Microwave Magnetics, Inc. Lynn, Mass. -N. Mavroules (City Mayor) Peabody, Mass. -A. Emerson (Selectman) Georgetown, Mass.	"Problems for the Engineer in Local Government" (A Panel Discussion)		9/18/68
Merrimack Valley (SS)	Dr. Peter P. Sorokin T. J. Watson Res. Cntr. Yorktown Heights, N. Y.	"Flash Lamp Pumped Organic Dye Lasers"		9/16/68
Connecticut	Dr. Arnie Sollberger Yale Univ., Med. School Dept. of Psychiatry New Haven, Conn.	"Engineering Methods in Analysis of Biological Rhythms"	G-EMB	10/17/68
Fairfield County (SS)	-Dr. James Keenan Dunlap Associates Darien, Conn. -Theodore Cheney MARCUM New York, N. Y.	"Neologics-The Faces of Change; An Imaginative Approach to Problem Solving"		9/26/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Fairfield County (SS) (Cont'd)	-Thomas J. Calvert -Bruce Carpenter Schlumberger Tech. Corp. Ridgefield, Conn.	"Bore-Hole Electronics"		10/17/68
Elmira-Corning	Donald B. Seymour Westinghouse Electric Corp. Syracuse, N. Y.	"New Trends in Urban Transportation"		9/30/68
	-Dr. G. W. Goetze -P. R. Collings Westinghouse Electric Corp. Box 284, Elmira, N. Y.	"Modern Low Light Level Image Tubes"		10/28/68
Long Island	Samuel T. Yanagisawa Electron Devices Div. Varo, Inc., Garland, Tex.	"Direct Imaging Light Amplification"		9/17/68
Maine	William G. Denhard MIT Instrument Lab. Cambridge, Mass.	"The Evolution of High Precision Gyros and Their Impact Upon Industry"		10/16/68
Mid-Hudson	Dr. Virgil Johannes Bell Labs. Holmdel, N.J.	"Future Communications Systems"		10/8/68
Catskill (SS)	Gregory F. Johnson Ulster County Community Col. Stone Ridge, N. Y.	"Engineering Education in India"		10/2/68
	John Rogerson Channel Master Corp. Ellenville, N. Y.	"Master Antenna TV Design"		11/6/68
Mohawk Valley St. Lawrence Int'l (SS)	Gary Lansing General Electric Co. Erie, Pa.	"Adjustable Speed Drive Technology and Applications"		9/18/68
	Prof. J. C. Callaghan Sir George Williams Univ. Montreal, Canada	"Electrical Engineering-The New Curriculum at Sir George Williams University, Montreal"		10/16/68
New Hampshire	Peter Lakis Sanders Associates, Inc. Nashua, N. H.	"Man-Machine Communications in Hospitals"		10/9/68
	Robert E. Hynes Davidson Rubber Co. Dover, N. H.	"Recent Advances in Automotive Safety Devices"		10/9/68
New Jersey Coast	Samuel A. Scharff Riverside Res. Instit. New York, N. Y.	"Spectrum Engineering-The Key To Progress"	G-EMC	10/8/68
	John P. Breickner Fifth Dimension Inc. Princeton, N. J.	"Testing and Packaging for Reed Relay Reliability"	G-R/PMP	10/16/68
New York	Dr. W. J. Poppelbaum Univ. of Illinois Urbana, Ill.	"Unusual Processing Techniques"	G-C	9/26/68
	M. Minahan Portatronics Systems Inc. New York, N. Y.	"Radio Telephone Service <u>Anywhere</u> "	G-VT	10/8/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Princeton	Dr. Joseph E. Geusic Bell Telephone Lab. Murray Hill, N. J.	"Continuous Optical Parametric Oscillators"		10/8/68
	Dr. Gene Holden Dow Jones Co. South Brunswick, N. J.	"The Engineering and Communications Facilities of Dow Jones Company"		10/22/68
Rochester	George Butler R. G. & E., 89 East Ave. Rochester, N. Y. 14604	"Story of Light"		9/10/68
	-Dr. William F. Neuman -Dr. George Berg University of Rochester Rochester, N. Y.	"Origin of Life" "Designing a Living System"		10/15/68
	Mike Callahan Motorola	"LSI: The Customer-Vendor Interface"	G-AES	9/19/68
Schenectady Adirondack (SS)	Jack Rairden G. E. Co., R&D Cntr. Schenectady, N. Y.	"Thin and Thick Films for Micro Electronics "		10/15/68
Worcester County	Rexford Wilson Fenwal, Inc. Ashland, Mass.	"Fire Control in the Space Age"		10/15/68

REGION 2

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Akron	Dr. John G. Brainerd Moore School of EE, Phila, Pa.	"Functions of IEEE"		10/8/68
	Dr. John K. Schindler Air Force Cambridge Res. Lab. Bedford, Mass.	"Scattering of Random Signals by a Discrete Target"	G-AP	10/8/68
	William S. Watkins Watkin's Associates	"September 1968 Revised National Electrical Code"	G-IGA	10/8/68
Allegheny Mountain	Dr. William F. Unsoeld Outward Bound Org. Andover, Mass.	"West Ridge Climb of Mount Everest"		9/10/68
	Dr. H. Lovell Penn. State University Dept. of Mineral Industries University Park, Pa.	"The Stream Purification Project at Hollywood, Pa."		10/8/68
Canton	Harold Smith Ohio Bell 401 Cleveland Ave. North Canton, Ohio	"The Amazing Laser"		9/17/68
	Irwin Knopp WAKR, Copley Rd. Akron, Ohio	"History & Development of Station WAKR"		10/15/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Cincinnati	J. F. Urich Bell Telephone Labs.	"Switching Considerations for Picturephone Service"		9/17/68
	-R. Hoover -W. House, Hagen Computer Switch, Pittsburgh, Pa.	"Trends in Power Plant Computer Control"		10/15/68
	-R. J. Reiman Cincinnati Gas & Electric Co. Cincinnati, Ohio	"Electrical Design of Beckjord Unit 6"		"
Columbus	-Ross E. Kell -R. N. Bailey North Amer. Rockwell Corp. 4300 E. Fifth Ave. Columbus, Ohio	"The North American Rockwell 'CASNET' Voice Communication System" "The North American Rockwell IA Data System"	G-ComTech	9/11/68
Delaware Bay	Edward J. Patrick G. E., Re-entry Sys. Div. Philadelphia, Pa.	"Flying Saucers-Fact or Fancy"		10/7/68
Erie	M. J. Leach Automatic Electric Lab. North Lake, Ill.	"Electro-Acoustic Design of Telephones"		9/17/68
	-John Kanzius WJET-TV, 8700 Waterford Pke. Rt. 19, Erie, Pa.	"Operation of a Color T. V. Station"		10/1/68
	-Dominick Bonitakibus WQLN-TV, 8700 Waterford Pke. Rt. 19, Erie, Pa.	"Operation of an Educational T. V. Station"		
Johnstown	H. E. Stanley Bethlehem Steel Corp. Johnstown, Pa.	"The Muscle in Mining"		9/17/68
	E. L. Keener U. S. Steel Corp.	"Hybrid Computers"		10/15/68
Lehigh Valley	Dr. E. Robert Britton General Electric Co. Philadelphia, Pa.	"UFO's-Fact or Fancy"		9/20/68
Lima	J. D. Miner Westinghouse Elect. Corp. Box 989, Lima, Ohio 45802	"Engineering Electric Power for Aerospace-Lessons From the Past and Cautious Projections for the Future"	G-AES	9/24/68
North Central Ohio	Dr. W. E. Bulman Ohio Semitronics, Inc. Columbus, Ohio	"Applications of the Hall Effect"		10/24/68
Philadelphia	George W. Haydon Instit. of Telecommunications Sciences	"Spectrum Engineering-Key to Progress"	Joint/G-EMC	9/9/68
	-Robert L. Starer PhysiTech, Inc. -Keith G. Springen Philco-Ford Corp. -A. Shannon Hamner B. T. L. of Pa. -Wilmer S. Kleinbach PJM Interconnection	"The Young Engineer in Industry and Business" (A Panel Discussion)		10/29/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Philadelphia (Cont'd)	-Dr. L. Peterson Univ. City Science Center Philadelphia, Pa. -Dr. R. Lawton G. E., Valley Forge, Pa. -Dr. H. H. Sun Drexel Instit. of Technology -Dr. C. N. Weygandt Moore School of Elect. Engrg. Univ. of Pa., Philadelphia, Pa. -Dr. W. Yamamoto School of Med., Univ. of Pa.	"Can Control Theory be Applied to Biology?"	G-AC G-EMB	10/9/68
	C. M. Sinnett University of Pa.	"Processing of Medical Data into Daily Reports for Use by Doctors"	G-EMB	9/25/68
	Rexford Daniels Interference Consultants, Inc	"Man, Nature, and EMC"	G-EMC	10/3/68
	-C. H. Leeds -E. I. Serwatka Bell Telephone Co., 1 Parkway Philadelphia, Pa. 19102	"Handling Technical People"	G-EM	10/8/68
	G. David Forney, Jr. Codex Corp. Watertown, Mass. 02172	"Space Applications of Sequential Decoding"	G-IT	10/7/68
	Dr. Robert W. Rochelle NASA, Goddard Space Flight Cntr. Greenbelt, Md.	"Satellite Instrumentation"	G-IM	10/16/68
	Edgar Fay Elastimold Div., E. S. N. A. Hackettstown, N. J. 07840	"Molded Rubber Accessories for High Voltage Power Cable"	G-P	10/7/68
Sharon	Dr. Edgar B. Cole Grove City College Grove City, Pa.	"The Possibilities (In Music)"		9/11/68
Southern New Jersey	-Thomas A. Wonnell -Vincent G. Merel -Robert M. Johns Nat'l Aviation Facilities Experimental Cntr. Dept. of Transportation Atlantic City, N. J.	"Automatic Data Processing for Engineers" "The Project Engineer and the Computer" "Software Applications in a Hardware Environment"		9/19/68
	Robert Mulryne Bell Telephone Labs. Murray Hill, N. J.	"North American Air Defense Command"		10/17/68
Susquehanna	Frank W. Van Luik, Jr. General Electric Corp. Schenectady, N. Y.	"Air Pollution"		10/15/68
Washington	Capt. Gehman U. S. Navy Washington, D. C.	"Oceanography"	G-AES	10/14/68
	Harold A. Bedient Data Automation Div. of Nat'l Meteorological Center Suitland, Md.	"Computers in Weather Central Operations"	G-C	10/2/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Washington (Cont'd)	Dr. Herbert Smith George Washington Univ. Washington, D. C.	"Management Theory Today"	G-EM	10/8/68
	Robert Strauss Communications Satellite Corp. Washington, D. C.	"Intelsat Communication Satellite Evolution"	G-R	10/16/68

REGION 3

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Alabama	Peter Wood Westinghouse Elect. Corp. R-D Cntr. , Pittsburgh, Pa.	"Application of Power Semi-Conductor Devices"		9/9/68
	Dr. Odis McDuff University of Alabama University, Alabama	"The Laser-A Solution Which Is Now Finding the Problems"		10/14/68
	James E. Parker Fulton National Bank Atlanta, Ga.	"Advances in Time Shared Computers"	G-ComTech	9/10/68
	L. D. Ecker Jerrold Electronics Corp. Philadelphia, Pa.	"Full Spectrum Communications now via Coaxial Cable"	G-ComTech	10/14/68
	J. W. Roberts Allis-Chalmers Mfg. Co. Atlanta, Ga.	"Vertical Reach Pantograph Disconnecting Switches"	G-P	9/9/68
	Tom Twoomey General Electric Co. Rome, Ga.	"Good Neighbor Policy For Power Transformers"	G-P	10/14/68
Atlanta	Dr. James B. Fisk Bell Telephone Labs. Murray Hill, N. J.	"Innovation, Communication and Society"		9/16/68
	H. C. Wolfram Lockheed-Georgia Co. Marietta, Ga.	"Satellite Systems Applied to Aircraft Communications"		10/21/68
Baton Rouge	Stanley Bird Chevron Oil Co. New Orleans, La.	"Unique Electrical Problems Encountered in Offshore Oil Production"		9/26/68
	Michael E. Henry South Central Bell Baton Rouge, La.	"Apollo Moon Mission"		10/10/68
Lafayette (SS)	Henry Tentou FAA Lafayette Airport, La.	"A Traveler Meets Air Traffic Control"		9/25/68
	Dale C. Caston South Central Bell Baton Rouge, La.	"Electronic Switching"		10/22/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Canaveral	Fred J. Campa General Telephone Co. Tampa, Fla.	"Government Communications-Military"	Joint/EM	9/12/68
Central North Carolina	-John C. Kiger -Charles Barefoot Carolina Medical Electronics Winston-Salem, N. C.	"Development of Cardio-Vascular Instrumentation"		9/17/68
Chattanooga	Dan Wiser Allis-Chalmers Mfg. Co. Gadsden, Ala.	"Nature of Distribution System Ferroresonance"		9/17/68
Eastern North Carolina	W. E. Eichelberger Corning Glass Raleigh, N. C.	"Photochromic Glass Storage-Display Medium"		9/13/68
	Marvin J. Hulhern Western Electric Co. Winston-Salem, N. C.	"Progress in Telephony"		10/11/68
East Tennessee	D. S. Wiser Allis-Chalmers Mfg. Co. Gadsden, Ala.	"Nature of Distribution Systems Ferroresonance"		9/18/68
	Russell O. Ohlson Square D Co. Lexington, Ky.	"A Procedure for Determining Maximum Short Circuit Values in Electrical Distribution Systems"		10/8/68
Evansville-Owensboro Paducah (SS)	Dr. E. W. Boehne ITE Imperial Corp. Philadelphia, Pa.	"Nature, Art and Arithmetic"		9/24/68
	-E. C. Read -R. Koehler General Electric Co. Philadelphia, Pa.	"Custom Power"		10/22/68
Florida West Coast	Dr. Richard F. Filipowsky IBM Huntsville, Ala.	"From Morse Code to Space Code"		9/18/68
	Col. Edward White (Retired)	"Power From Volcanos"		10/16/68
	Dr. Leo Young Stanford Research Institute Menlo Park, Calif.	"What Are Microwave Filters?"	G-MTT	9/11/68
Fort Walton	Lt. Col. Wesley Miller USAF Elgin AFB, Fla.	"What is Human Factors All About"		10/3/68
Hampton Roads	Francis P. McCourt U. S. Army Aviation Mat. Labs. Fort Eustis, Va.	"Safety and Survivability in Military Aircraft"		10/15/68
Huntsville	Bernard Reder Western Union Arlington, Va.	"Computers and Communication"		9/11/68
	Dr. David Mathews University of Alabama Tuscaloosa, Ala.	"Today's Students"		10/16/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Huntsville (Cont'd)	Dr. Helmut Hoelzer NASA Huntsville, Ala.	"The Role of Analog Computation in Engineering"	G-C	10/3/68
	Dr. H. Y. Yee Univ. of Ala., Box 1247 Huntsville, Ala. 35807	"Ray Methods in Wave Propagation and Diffraction"	G-AP/MTT	10/9/68
Muscle Shoals (SS)	R. T. Hathcote Tennessee Valley Authority Browns Ferry Nuclear Plant	"Nuclear Power Plants"		9/23/68
Jacksonville	-E. Sigrist -R. P. Sicard -J. Archambault General Electric Co.	"Man-Machine-Communications"		9/23/68
	Douglas Messick FAA Hilliard, Fla.	"Electronics in Air Traffic Control"		10/14/68
Lexington	J. Gordon Walter IBM Corp. New York, N. Y.	"Product Liability"		9/26/68
Louisville	John Wiegel American Air Filter Co. Louisville, Ky.	"The Role of Electrical Engineering in Air Pollution Control"		9/20/68
	John Harper IBM Corp. Yorktown Heights, N. Y.	"Holography and Its Applications"		10/18/68
Memphis	Robert Fosnaugh Traffic Engineer City of Memphis, Tenn.	"Electronic Traffic Control for Union Avenue"		9/17/68
	Cliff Veader Esna Corp. Hackettstown, N. J.	"Trend in Underground Connectors- Joint/G-P Past, Present and Future"		10/15/68
	David Kopf David Kopf Instruments Tujunga, Calif.	"Mechanical Approaches to Bio-Medical Problems"	G-EMB	10/17/68
Jackson (SS)	Charles Walker West Tenn. Industrial Assoc. Jackson, Tenn.	"Progress in Industry Development in West Tennessee"		9/10/68
	Prof. William H. Chandler Lambuth College Jackson, Tenn.	"How A Planetarium Aids In Teaching College Students"		10/8/68
Miami	Dr. R. H. Simpson Nat'l Hurricane Cntr. U. S. Weather Bureau, Box 8286 Coral Gables, Fla.	"Electronics System Used in Hurricane Forecasting"		9/24/68
	Dr. Stuart MacKay Boston Univ. Medical Cntr. Boston, Mass.	"Biomedical Engineering Concepts in Decompression Sickness and Fluid Breathing in Mammals"	G-EMB	10/22/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Middle Tennessee	Gale Young Oak Ridge Nat'l Labs. Oak Ridge, Tenn.	"Apollo Over the Ganges"		9/12/68
	John R. Boyle TVA, Relay Protection Sect. Chattanooga, Tenn.	"Protection of TVA's 500KV Transmission System"		10/17/68
Mississippi	Dr. T. Akutsu University Medical Cntr. Jackson, Miss.	"Artificial Heart-Partial Support and Total Replacement"		9/12/68
	Dr. Billy J. Sheel Miss. State University State College, Miss.	"Engineering Education Today"		10/10/68
Northeast Mississippi (SS)	Dr. Billy J. Sheel Miss. State College Mississippi	"The Engineer and the Social Sciences"		9/10/68
Mobile	William N. McKeever Economy Electric Const. Co. 1013 Tenn St., Mobile, Ala.	"Estimating Electrical Construction Cost"		9/23/68
Oak Ridge	Dr. J. F. Pierce University of Tennessee Knoxville, Tenn.	"Undergraduate Education in Electrical Engineering: Yesterday, Today, and Tomorrow"		9/12/68
	Paul Haubenreich Union Carbide Corp. Box X, Oak Ridge, Tenn	"The New Developments with the Molten Salt Reactor"		10/10/68
Orlando	Dr. Leo Young Stanford Res. Institute Menlo Park, Calif.	"Microwave Filters"	G-MTT	9/10/68
	Dr. Robert D. Kersten Florida Tech. University Orlando, Fla.	"Home Grown Engineers"	G-P	9/24/68
Panama City	Dr. N.H. Jasper USN Mine Defense Lab. Panama City, Fla.	"Undersea Technology"		10/19/68
Savannah	Col. William L. Barnes Corps of Engineers Savannah, Ga.	"The Savannah Harbor Plan of Improvement"		10/3/68
South Carolina Central Savannah River (SS)	M. C. Johnson So. Carolina Electric & Gas Columbia, S. C.	"The Electric Power Industry Today"		9/10/68
Columbia (SS)	T. L. Lightle Southern Bell Tel & Tel Co.	"Common Carrier Aspects of TV Transmission"		9/9/68
	R. C. Blair South Carolina State Development Board	"Atomic Energy in South Carolina"		10/14/68
Piedmont (SS)	Harry E. Bolich III Torrington Co. Clinton, S. C.	"Industrial Pollution Control"		9/19/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Virginia Mountain	Jack R. Hutchinson IBM Roanoke, Va.	"Use of the Computer in Education and Management"		9/27/68
Winston- Salem	Lynn M. York Radiation, Inc. Melbourne, Fla.	"Interrogation Recording and Locating System"		9/19/68
	C. De Gabrielle Call-A-Computer Co. Raleigh, N. C.	"Time-Shared Computer Systems and Remote Terminals"		10/17/68

REGION 4

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Chicago	-E. L. Michelson -R. E. Reder Commonwealth Edison Co. Chicago, Ill.	"Recent Developments in the Power Industry"	G-NS G-P	10/8/68
	Ben Herman Motorola Communications 4501 W. Augusta Blvd. Chicago, Ill.	"Quartz Crystals, Today's New Technology"	G-VT	9/26/68
Calumet (SS)	C. J. Sener Illinois Bell Tel. Co. Chicago, Ill.	"Bell System Center for Technical Education"		10/16/68
Fox Valley (SS)	John Purcell Argonne Nat'l Lab. Argonne, Ill.	"Application and Design of Large Superconducting Magnets"		9/4/68
Illinois Valley	Chuck Shields General Electric Co.	"Semiconductor Products"		9/5/68
Iowa-Illinois	Dr. Robert C. Frank Augustana College Rock Island, Ill.	"Lasers and Holograms"		9/17/68
Madison	Steve Wyman General Electric Co. Schenectady, N. Y.	"Characteristics of a Gas Turbine Power Plant--What, Why, How, Where, and When?"		9/24/68
	Prof. Gerard A. Rohlich Univ. of Wisconsin Madison, Wisconsin	"Some Aspects of Water Pollution"		10/29/68
Milwaukee Racine- Kenosha (SS)	Herbert Lawrence B. & K. Instruments, Inc. 5111 West 164th St. Cleveland, Ohio 44142	"Noise & Vibration Measurement in QC of Electro-Mechanical Devices"		9/11/68
Nebraska	Al Lange Holothane Co. Chicago, Ill.	"Industrial Lighting-Yesterday, Today, Tomorrow"		9/19/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Nebraska (Cont'd)	D. W. Hilson Leeds & Northrup Philadelphia, Pa.	"Power System Control by a Digital Computer"	G-P	9/10/68
Northeastern Wisconsin	-Frank Miotti General Electric Co. Milwaukee, Wis. -Jim Grist Miller Electric Appleton, Wis.	"Progress in Solid State High Voltage DC Transmission System" "The Design and Operation of an Automatic Bar"		9/5/68 "
	Dr. Dreyfuss Wisconsin State Univ. Stevens Point, Wis.	"Impact of Mass Media on Society and Education"		10/3/68
Rock River Valley	David M. Hodgin Collins Radio Co. Cedar Rapids, Iowa 52406	"You and the IEEE"		9/26/68
Siouxland	-Martin Busch -James Prusha S. D. Educational Television Univ. of South Dakota	"Educational Television in South Dakota"		9/16/68
	Ralph Lanoue Lapp Insulator Co. Le Roy, N. Y.	"Electrical Porcelain-Manu- facturing Processes and Applications"		10/7/68
Southeastern Michigan	William J. Pierce Detroit Edison Co. 2000 Second Ave. Detroit, Mich. 48226	"The Developing Urban Detroit Area"		10/17/68
	Henry Orth Multi-Amp Corp. 61 Myrtle, Cranford, N. J.	"Maintenance of Electrical Equipment"	G-IGA	10/9/68
Southern Minnesota	Don Lavine Rochester State Jr. Col. Rochester, Minn.	"New Option in Electronics Technology"		9/25/68
Twin Cities	Peter M. Bartlett Electro-Craft Corp. Hopkins, Minn.	"Incremental Motion Servo- mechanisms Using Low Inertia DC Motors"	G-AC	10/7/68
Red River Valley (SS)	J. C. Jackson Northwestern Bell Tel. Co. Fargo, N. D.	"The Laser"		10/16/68
West Michigan	Dr. Glade Wilcox Western Michigan Univ. Kalamazoo, Mich.	"Graduate Careers"		9/12/68

REGION 5

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Arkansas	Robert J. Verlander Lenkurt Electric Co., Inc. Atlanta, Ga.	"Design and Construction of the Microwave/Multiplex System for the Operating Companies of Middle South Utilities, Inc."		9/19/68
Central Texas	W. T. Sumerlin McDonnell-Douglas Corp. Box 516, St. Louis, Mo.	"Trends in System Reliability" "Brief Report on Region V"		10/10/68
Corpus Christi	Herb Hurn IBM, 520 S. Chaparral Corpus Christi, Tex.	"The Computer as an Information Tool"		9/19/68
Victoria -Port Lavaca (SS)	R. L. Woll Westinghouse, Inc. Buffalo, N. Y.	"Influence of Nema 'T' Rerate Program on Integral Horse-power Motors for Industry"		9/26/68
Dallas	Frank Pounders LTV Aerospace Corp. Box 6267, Dallas, Tex. 75222	"To The Moon and Beyond"		9/10/68
	Thomas R. Cuthbert Collins Radio Co. Dallas, Tex.	"Optimization-Making the Best of It by Computer Redesign"	G-ComTech	9/12/68
	Robert K. Green, Jr. Dallas Power & Light Co. 1506 Commerce, Dallas, Tex.	"Analysis of Three Phase Untransposed Transmission and Distribution Circuits"	G-P	9/17/68
El Paso	Louis W. Stepter FAA, El Paso, Tex.	"Current and Future Airports Development"		9/12/68
Fort Worth	V. L. Mike Mahoney Planning Director City of Fort Worth	"Fort Worth's New Sector Planning Program"	G-P	10/17/68
Houston	Dr. William L. Ross Bell Telephone Labs. Holmdell, N. J.	"Communications in the Seventies"		9/26/68
	Dr. Bruce Johnson NASA, M. S. C. Cntr. Clear Lake, Tex.	"Design of a Time Shared Hybrid System with the UNIVAC 1108"	G-C	10/10/68
	Prof. Wm. Wakeland Trinity University San Antonio, Tex.	"Optimization Analysis Applied to Deep Sea Drilling Platform Station Keeping"	G-GE	10/15/68
	Homer Ivy Crouse-Hinds Co.	"A Look at Division II Applications"	G-IGA	10/1/68
Kansas City	Harve Newlin Merrill, Lynch, Fenner & Smith Kansas City, Mo.	"Investing in Today's Market"		9/5/68
Ozark	-Lee Schwieger -Dennis Gilstrap General Electric Co. Tulsa, Okla.	"General Electric Computer Time Sharing"		9/26/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Ozark (Cont'd)	-Prof. Bryan Webb -Prof. R. B. Gungor Univ. of Arkansas Fayetteville, Ark.	"Computer Program Development for Power System Studies"		10/17/68
Panhandle	Jim Reid General Electric Co. Dallas, Tex.	"Color Television"		9/9/68
	Dr. M. O. Hagler Texas Tech. College Lubbock, Tex.	"Lasers, Applications & Demonstrations"		10/14/68
Permian Basin	George Bartosh General Electric Co. Dallas, Tex.	"Time Shared Computers"		9/23/68
St. Louis	Carl J. Weiss Cutler-Hammer Milwaukee, Wis.	"Auto-Weighted Handling"	G-IGA	10/14/68
Shreveport	Dr. Donald E. Texada Shreveport Med. Society	"The Use of Electrical and Electronic Equipment in the Medical Field"		9/10/68
Monroe (SS)	Keith Otto Fischer & Porter Co. Monroe, La.	"Theory and Application of Magnetic Flowmeters"		9/17/68
	John Witherspoon Industrial Nucleonics Monroe, La.	"Application of Nuclear Gauging"		10/15/68
Tulsa	Dr. J. B. Farr Pan Amer. Res. Cntr. Tulsa, Okla.	"Laser - Tool or Toy?"		9/17/68
	Ray Poole Public Serv. Co. of Okla. Tulsa, Okla.	"Dynamic Northeastern Oklahoma"		10/15/68
REGION 6				
Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Albuquerque	Prof. Angel G. Jordan Carnegie-Mellon Univ. Pittsburgh, Pa.	"Noise: Definition, Measurement, and Sources in Semiconductor Devices"	G-ED	9/10/68
Boise	Luther Evans Idaho Power Co. Box 770, Boise, Idaho	"Scenic Areas of Central Europe"		10/29/68
Hawaii	-Dr. John W. Shupe -Dr. Robert E. Potter University of Hawaii Honolulu, Hawaii	"1968-1969 University of Hawaii Engineering School Plans" "Student Unrest"		9/19/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Hawaii (Cont'd)	Dr. Norman Abramson University of Hawaii Honolulu, Hawaii	"Additive Links On-Line Hawaii Area System (ALOHA System)		10/9/68
Montana Butte (SS)	Thomas Lough Montana Power Co. Butte, Mont.	"Excitation System Representation in Stability Studies"		9/20/68
Phoenix	Dr. David B. Langmuir TRW Systems Redondo Beach, Calif.	"Time Constants in Research & Development"		9/26/68
San Francisco	Linder C. Hobbs Hobbs Assoc., Inc. Box 686, Corona del Mar, Ca.	"Computer Memories and Peripheral Equipment for the Future"	G-C	9/24/68
	Leslie Burns Memorex Corp. 1180 Shulman Santa Clara, Calif.	"Optical Memories"	G-MAG	9/10/68
	R. C. Crabb Mobil Phone, Inc. Los Angeles, Calif.	"The New Role of the Radio Common Carrier"	G-VT	9/16/68
Santa Clara Valley (SS)	-Dr. Robert E. Wallace -Dr. Robert M. Hamilton -Dr. Harold W. Olsen U. S. Geological Survey 345 Middlefield Rd. Menlo Park, Calif.	"What About Our Next Earthquake?"		9/26/68
	Seattle	Dr. F. Paul Carlson University of Washington Seattle, Wash.		9/19/68
		Dr. Daniel G. Dow University of Washington Seattle, Wash.		10/17/68
	Dr. Harry L. Snyder The Boeing Co. Seattle, Wash.	"Remote Sensing From the Cockpit: Requirement for Aircraft Sensor Displays"	G-AES	10/9/68
	Dr. Akira Ishimaru University of Washington Seattle, Wash. 98105	"Wave Propagation in Turbulent Media and Random Scatterers"	G-AP/MTT	9/26/68
	Harold W. Clark Marine Systems Cntr. Honeywell, Inc. Seattle, Wash.	"Vessel Position Control Systems"	G-AC	10/16/68
	Dr. William W. Cooley Seattle University Seattle, Wash.	"Interference and Susceptibility Problems on a Leaky Rectangular Enclosure"	G-EMC	9/25/68
	C. E. Pickering Westinghouse Electric Corp. Beaver, Pa.	"Trends in Circuit Breaker Developments and Applications"	G-IGA	9/9/68
	John Hewitt Chief Elect. Inspector State of Washington Olympia, Wash.	"1968 National Electric Code"	G-IGA	10/14/68

Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Seattle (Cont'd)	Alfred Kilgour Allis-Chalmers Mfg. Co. - Electric Utility Div.	"Ferroresonance on Distribution Systems with Demonstration of Affects"	G-P	10/8/68
Southbay-Harbor	Dr. S. Dean Wanlass Wanlass Electric Co. 1540 East Edinger Ave. Santa Ana, Calif.	"The Paraformer"		9/17/68
Tucson	Stanley P. Abrams P. A. T. Home Builders	"The Future of Tucson's Electronic Industry"		9/17/68
	Howard A. Baldwin Sensory Systems Lab. Tucson, Ariz.	"Wild Animal Telemetry"		10/15/68
<u>REGION 7</u>				
Section Subsection (SS)	Speaker and Address	Title of Speech	Group Code	Date Presented
Hamilton	R. H. Tanner Northern Electric Co. Ottawa, Ontario, Can.	"Recent Developments in Communication"		10/7/68
Montreal	Dr. C. F. D. Ackman Montreal General Hospital Montreal, Canada	"The Artificial Kidney: Theoretical Principles and Design Problems"	G-EMB	10/7/68
Niagara International	-Lynn C. Holmes Nat'l Vice Pres. (Retired) -Robert H. Tanner Northern Electric Co. Ottawa, Ontario, Canada	"What Makes IEEE Tick?"		9/26/68
Ottawa	Gordon A. Asher Patent & Copyright Office Dept. of Consumer & Corporate Affairs, Ottawa, Canada	"Patents as an Engineering Tool"	G-P	10/1/68
Southern Alberta	R. K. Stevens Computer Sciences Can. Ltd. 633 8th Ave., S. W. Calgary	"The UNIVAC 1108 Installation"		10/3/68
Vancouver	-James Berry Andres Wines 2120 Vinter, Port Moody, B. C. -Jerry A. Macdonald	"Professional Wine Making"		9/16/68
	R. C. Eldridge B. C. Telephone Co. 768 Seymour St. Vancouver, B. C.	"Hydronics, Plasmonics, or What?"	G-AP/VT/AES G-C/ComTech	10/7/68

REGION 8

<u>Section Subsection (SS)</u>	<u>Speaker and Address</u>	<u>Title of Speech</u>	<u>Group Code</u>	<u>Date Presented</u>
Egypt	Dr. Eng. Mahmoud S. Kandeel General Industrial Org.	"The Discriminative Performance of Distance Protection Applied to Extra High Voltage Networks"		9/23/68
	Dr. Mohamed E. Abdel-Aziz Atomic Research Org. Cairo, Egypt	"Modern Techniques for the Advancement of Accelerator Research Part I"		10/2/68
Norway	-Insp K. Reyter Norwegian State Railways	"Norwegian State Railways New Suburban Train Set-Traffic"		9/25/68
	-Overing P. Hauan Norw. Electronics & Brown Boveri, Oslo	"Norwegian State Railways New Suburban Train Set-Technological Advances"		
	-O. S. Johansen Res. Inst. for Power Distrib. Trondheim, Norway	"Briefing on CIGRE"		10/21/68
	-H. Stenwig Norsk Hydro Oslo, Norway	"ALNOR, The Electrical Power System"		
Sweden	Per Granholm L. M. Ericsson Tel. Co. Stockholm	"Data Communication System with Banking Application"		9/24/68

REGION 9

<u>Section Subsection (SS)</u>	<u>Speaker and Address</u>	<u>Title of Speech</u>	<u>Group Code</u>	<u>Date Presented</u>
Chile	Jorge Ceardi Standard Electric Co. Casilla 444, Santiago	"The Cross-Bar Telephone Switching System"		9/25/68
Mexico	Ing. Anthony Goodwin Federal Pacific Electric	"Total Production in Switch- Board in Low Tension"		9/5/68
Peru	Dr. Tor Hagfors Instituto Geofisico del Peru Apartado 1155, Lima	"The Research Program at the Observatory of Jicamarca"		10/5/68
Puerto Rico & Virgin Islands	Dickie Colon ITT Carib. Mfg. Inc. G. P. O. Box 3665 San Juan, P. R. 00936	"Design and Manufacture of Telephone Switching Equipment"		10/25/68

as a method of support. (For background, see Spectrum, Oct. '67, p. 41.) By Jan. '69, 8 Transactions and 2 Journals will be assessing page charges; and all will be joined by the distinguished Proceedings of the IEEE.

IEEE's COOPERATION WITH IEE (Institution of Electrical Engineers, London) in the field of British and American abstracts and current awareness services (E. E. Oct., p. 5) is made definitive by an IEEE advertisement in Nov. '68 Spectrum, p. 48.

E PLURIBUS PROSIT. IEEE has also coalesced its interest in bibliographic matters with societies on the American scene. For some time, says Howard Tompkins of the IEEE staff, he has been a member of a felicitous, informal working group called "JAG"—devoted to the establishment of common practices in bibliographic data interchange. Those on JAG have been representative of American Institute of Physics, Association for Computing Machinery, American Mathematical Society, Engineering Index, IEEE, the National Bureau of Standards' Technical Information Exchange, Center for Computer Science and Technology; and more recently Biological Abstracts and Chemical Abstracts.

JAG expects to issue recommendations soon, and hopes they will be adopted by many organizations as a basis for public data tapes in the bibliographic area.

PREPARATION OF MANUSCRIPTS. IEEE's bible is the pamphlet "Information for IEEE Authors," essential alike to writers of papers to be printed by letterpress or by photo-offset, but bearing particularly on Ms. for letterpress. (Copy, Patricia Penick)

Authors asked by meetings and conference publications to supply author-typed Ms. for photo-offset require further information and aids. These are furnished in an "IEEE kit," often so-called by Spectrum in Calls for Papers, under News of the IEEE. Kits cost 25¢ plus postage, billed by invoice; consist of 15 sheets of 11" x 14" (28 x 35.5 cm) "Model Paper," having guidelines in light non-photo blue

for delimiting 2-column typing areas, for photo-reduction to 77% in size; plus instruction for its use in preparing Ms., including illustrations, to meet special requirements for 8 1/2" x 11" (21.5 x 28 cm) offset work. (Kits, Ed MacDonald)

TRANSACTIONS IN MICROFICHE. Beginning in Jan. '69, Transactions on 1) Aerospace & Electronic Systems, 2) Computers, 3) Power Apparatus & Systems, will be available in 60-page microfiche. (For background on film and viewers (readers), see E. E. June, p. 3.) Group members and subscribers to these Transactions may subscribe to microfiche issues, which will be mailed about the same time as printed issues. Microfiche of other IEEE Journals may come later.

A member of a concerned Group may receive microfiche instead of printed issues at no additional cost. Alternatively he may receive microfiche in addition to print by paying an additional fee of \$6 (\$5 for A&ES). Non-member subscribers have the same options, the in addition fee being \$12 (\$10 for A&ES); reduced to \$9 (\$7.50 for A&ES) for public libraries, government agencies, colleges.

Wait for renewal bills before ordering new service. Watch Spectrum for extended announcement. (Information, flyer, Reed Crone)

GROUP NEWS

NEW AWARDS INSTITUTED BY GROUPS. A reminder that proposals for new Group awards must be submitted to the Awards Board for approval before being publicized.

GROUP MEMBERSHIPS tie members to the Institute. In a March 1968 study of members in dues arrears, the rate of drop-out among non-Group members was found to have been twice that among members of Groups.

What units, then, work for the IEEE while working for the units? Groups which seek members. Sections and Chapters which push Group memberships. Sections which form and support Chapters.

All these are recruiting IEEE members who will stick.

SECTION AND REGIONAL NEWS

SECTION ACTIVITIES Questionnaire circulated by Princeton Section's "The P. S." produced enlightening, useful tabulated results, due to good response. E. E. ventures to say that Editor S. F. Dierk (address in Organizational Roster, Sept., p. 21) would be willing to share resume with other-Section inquirers, answering question: "What could I do with the results if I circulated a similar questionnaire in my Section?"

SPEAKERS DIRECTORY. See canary yellow Supplement for additional suggestions for meetings topics, papers, speakers, based on experience in other Sections.

BONDING OF REGIONAL OFFICERS. Statement of Policy #8-C (see E. E. Apr., p. 3; June, p. 2) reads: "The cost of [surety] bonds for Regional Directors will be paid for from headquarters funds." Bill Keyes says that this is to be interpreted as applying to all bonded Regional officers including Regional Directors; and that, as a practical matter, such costs are covered by premiums IEEE pays on a blanket bonding policy.

STUDENT NEWS

GROUP FEES FOR STUDENTS have been changed, effective on new applications and renewals after Nov. 1, '68. Previously: \$1 for any one selected Group (see Student Branch Manual, p. 2); regular Group fee (\$3 to \$7) for any other Group (s). New fees: \$2 for each Group joined.

To take into account delays in communicating this change and in the mails, special arrangements have been made for the transitional period Sept. 1 to Dec. 15, '68: Students who joined multiple Groups between Sept. 1 and Oct. 25 should write Mrs. Marian Klima, requesting refund of

overpayment at new rates. If overpayment was received after Oct. 25, refund to the student is automatic.

From Sept. 1 up to Dec. 15 (date of receipt at headquarters), if a student joined or joins only one Group at \$1, the old rate, his application for 1969 will go through as though he had paid \$2, the new rate. (A bargain for quick seizure; Counselors, please note.) (Foregoing is condensed; full schedule, Bob Loftus)

STUDENT PAPERS CONTESTS. A leaflet catering to the immediate interest of Students who wish to enter papers contests is again available. (Samples, quantity orders, Mrs. Emma White)

"FOR YOUR INFORMATION"

PICKUP AND FEEDBACK. In the green Supplement is a letter to Editor E. E. from A. P. Steensen, Newsletter Editor, Group on Industrial Electronics & Control Instrumentation, commenting on recent E. E. items and offering suggestions. The letter is run entire, as an exhibit of welcome feedback. Much of the time E. E. has had to use pickup, handicapped by low inductive capacity.

Incidentally, E. E. abandoned serializing field suggestions, due to paucity. (Ref., E. E. Apr., ivory Supplement: How E. E. Is Produced; copy, Audrey van Dort)

NEGATIVE FEEDBACK A-OK. WHW M'57, Calif., shot back his E. E. Oct. with pinned-on note: "Would you have this translated into English?"

Sorry, defies translation. . . In 1964-65-66 E. E. was written in English. . . Then we began to cram all IEEE into 8pp . . . This jalopy is backfiring from high compression.

The gas WHW smells is anti-knock. What he hears is ping. —Ed.

TWIN-TOWER FOR UEC. The societies in the United Engineering Center building, first occupied in 1961, find their accommodations bursting at the seams. IEEE, with nearly 5 floors the largest occupant,

was forced long since to spill over into office space a block away.

Plan now is to erect for 1971 occupancy an 11-story tower on East 48th Street—a twin of the present one on East 47th—on land now owned by United Engineering Trustees (UET) and above the UET-owned structure housing the Engineering Societies Library. Costs would be paid out of rentals amortized over a period of years, making it unnecessary for the societies to conduct a building-fund drive.

IEEE, among others, is preparing estimates of future space needs, as a basis for UET (of which IEEE is a member) to decide whether to finalize its plans.

IEEE TO SHARE NEW COMPUTER. IEEE's new IBM 360, Model 40, to be installed about May '69, has capacity enough to permit cost-sharing use with other societies. Interest has been shown, for example, by American Society of Mechanical Engineers, American Institute of Physics, Engineering Index. August ExecCom authorized preparation of plans and agreements for sharing on a no-loss basis.

NEW STYLING OF CERTIFICATES. IEEE has grown up with a hodge-podge of certificates and "diplomas" of all sizes, paper quality, aspect ratios, colors, typography, and wording, adapted to a wide range of uses. Activities concerned have now agreed on advantages of uniformity and a modern look, more in keeping with IEEE's "image." Watch Spectrum for announcement of new recognition material. One new item is a miniature—to be mounted in clear plastic as an office desk paperweight or home conversation-piece.

IEEE EMBLEMS FOR RECOGNITION were forecast in E. E. 14, Dec. '67, p. 3; June '68, p. 1. An announcement will soon be ready for dissemination, hopefully in time so that some presentations to incoming and outgoing Group chairmen and Section chairmen may be made by organizational units in early '69. (Inquiries, Doris McGuire)

STAYING ON THE LIST. Regrettably, year-ends automatically cut ties between E. E. and retiring officials who are not taking up a new job on E. E.'s circulation list.

We'd like to keep up the pleasant association a little longer if you would. By your simple request to Audrey van Dort reminding her of your status, we'll send you all the issues in '69. That way you can check up and see that somebody's taking care of the store.

HELLO MA, HELLO PA, and by flagrant Misuse of the Network, Y^e Ed. greets Blackmon, Savage, Winton, Karger, Bailey, Gillette, Hibshman, Cohen, Kagen, and steen-umpty buddies in whose frayed Christmas socks Santa will leave mostly holes and glory.

WELCOME ABOARD!

New Section: West Pakistan, IEEE's 3rd in Asia!

New Group Chapters in Sections:

<u>Section</u>	<u>Chapter</u>
Columbus Mississippi	Vehicular Technology Engineering in Medicine & Biology
Joint:	
Montreal	Electrical
Ottawa	Insulation
Toronto	Engineering Management
United Kingdom & Republic of Ireland	Computer
Worcester County	Power

Staff: Seymour Tilson, Staff Writer

"IEEE Spectrum;" formerly Associate Editor "International Science & Technology." "Sy" joins Nilo Lindgren; and replaces Gordon Friedlander who has become Assistant Director, under Bern Dibner, of the prestigious Burndy Library, Norwalk, Conn.

COMPOSITION OF THE 1968 IEEE BOARD OF DIRECTORS
(Only Present Terms Shown)

DELEGATES-AT-LARGE DIRECTORS-AT-LARGE <i>Elected by members</i>		DIRECTORS-AT-LARGE <i>Elected by Assembly</i>		REGIONAL DELEGATES REGIONAL DIRECTORS <i>Elected by Regional members</i>	
1 Seymour W. Herwald	1968-70	1 James H. Mulligan, Jr.	1968	1 Harry R. Mimno	1968-69
President	1968 †	Vice President		2 John G. Brainerd	1967-68
2 Lynn C. Holmes	1968	Technical Activities	1968 *†	3 Robert G. Elliott	1968-69
Vice President	1968 †	2 F. Karl Willenbrock		4 David M. Hodgins	1967-68
3 William G. Shepherd	1966-68	Vice President		5 William T. Sumerlin	1968-69
Senior Past President	1968	Publication Activities	1968 *†	6 Stanley F. Kaisel	1967-68
Secretary	1968 *†	3 John N. Shive	1968	7 Robert H. Tanner	1968-69
4 Walter K. MacAdam	1967-69	4 Shigeo Shima	1967-68	8 Robert C. G. Williams	1967-68
Junior Past President	1968	Director Region 10	1968 *	9 Francisco A. Hawley	1968-69
5 Edwin L. Harder	1966-68	5 Fritz E. Borgnis	1968		
6 John G. Truxal	1966-68	6 Glenn A. Fowler	1968		
7 Harold Chestnut	1967-69	7 Robert W. Gillette	1968		
Treasurer	1968 *†	8 William H. Huggins	1968		
8 Edward E. David, Jr.	1967-69				
9 Hubert Heffner	1968-70				
10 Charles F. Savage	1968-70				

DIRECTORS EMERITUS

Alfred N. Goldsmith
also Editor Emeritus
Haraden Pratt
Elgin B. Robertson

EXECUTIVE COMMITTEE

Herwald	Finance
Chestnut	Employee Benefits
Harder	Awards
	Fellow
	History
Holmes	Sections
	Membership & Transfers
	Admission & Advancement
MacAdam	Long Range Planning
	Bylaws
	Internal Communications
Mulligan	Technical Activities
Shepherd	Intersociety Relations
	Nominations & Appointments
	Professional Relations
Shive	Educational Activities
Willenbrock	Publication Activities

*Elected by the 1968 Assembly to these positions.
†Corporate Officers.

INCOMING IEEE OFFICERS, DIRECTORS.

The new IEEE Board of Directors and Executive Committee takes office Jan. 7, 1969, replacing the present organization shown in the Box, above.

On Nov. 19, '68, BofD declared that the following 8 Directors had been duly elected by the membership: F.K. Willenbrock, President 1969 (Director 1969-71). . . J. V. N. Granger, Vice President, Director 1969. . . Two Directors-at-Large 1969-71: D. M. Hodgins, J. R. Whinnery. . . Four Regional Directors 1969-70: Region 2 - D. C. Ports, 4 - H. P. Bruncke, 6 - L. C. Hedrick, 8 - R. P. Wellinger.

The 8 named, plus the 6 Directors-at-Large and 5 Regional Directors hitherto elected by IEEE members for terms which include 1969 (see Box), will constitute the 19 Delegates to the annual Assembly Jan. 7. Under Bylaws 201, 203, 301, the Assembly will elect 8 additional Directors

for 1-year terms, 1969. Two of the 8 will be named Vice Presidents (Technical Activities and Publishing); a third will be appointed chairman, Educational Activities Board; a fourth will begin a biennial term representing Region 10.

"RUNNING UNOPPOSED." IEEE's Bylaws wisely and generally provide for more than one candidate for each elected Director. But President and elected Vice President run unopposed unless there are nominations by petition (Constitution, Art. XII, Sec. 3; Bylaw 311.3). Dr. Willenbrock and Dr. Granger have known tentatively since March (E. E. Apr., p. 8), and definitely since Aug. 9 (closing date for petitions) that they would assume top responsibilities in January. This 9-month period of intensive preparation is the members' quid-pro-quo for two candidates' running unopposed for 1969. (As to 1970, see Challenges & Opportunities, above.)

IEEE's "family" of Units includes Groups, Committees, Boards, Councils, Conferences, Regions, Sections, Subsections, Chapters, Branches, and Headquarters. "Electrical Engineering" (E. E.) helps bring them together.

When E. E. refers to staff members, get full name, assignments, etc., from "IEEE Spectrum"; listed monthly on second page after table of contents. Address them: IEEE, 345 East 47 Street, New York, N.Y. 10017. Or phone Area 212 - 752-6800.