

# ELECTRICAL ENGINEERING®

A FRATERNAL HELPING HAND. Due to changes in governmental priorities and in the industry, (one thinks of aerospace), more than the usual number of IEEE members are at this time seeking work. Spectrum, Sept. '70, pp. 11-12, quotes a judgment that layoffs may increase. The IEEE Board of Directors (BofD), meeting in California in August, was keenly aware that the thrust of economic dislocation does not bear equally on all Sections or on all Groups; further that, in coping with the problems of people, some Sections and Groups have acquired experience they ought to share—how to help members locate re-employment; what outlets are looking for identical, similar, or parallel skills; which ones could be approached with retraining, or with reorientation of viewpoint, or with acceptance of relocation; how to obtain fraternal help from other IEEE members or from one's college, and so on.

Any sharable ideas along these lines—from Sections, Groups, other organizational units, or individuals—will be welcome to President Granger at IEEE. He has his organization of Directors and the facilities of correspondence, Spectrum, and Electrical Engineering (E. E.) for getting the word around.

Spectrum, Sept. '70, pp. 34-36, ran a timely article on suggested procedures. Review it. Meanwhile, BofD is investigating resources and additional avenues of approach.

## CHALLENGES AND OPPORTUNITIES

A LOOK FORWARD, A GLANCE BACK. October affords a last chance to wrap up

plans for 1971, by Groups, committees, and other units whose officers change on January first. Sections, Chapters, and other units whose changeover occurred at midyear can attribute the success they are chalking up during the fall upswing to the groundwork they laid last June. Three to four months is the minimal headway one has to maintain in this business; and in some cases, like a major conference, a year is not enough.

BOARD-TO-MEMBER COMMUNICATION. Section chairmen frequently point to the need of bringing to member's personal attention BofD's consideration of matters before they jell. Since individual member mailings are too expensive and only Spectrum reaches all members, the remedy obviously lies in better utilization of Spectrum. Toward this end a new column, titled "Inside IEEE," will be unveiled in the IEEE News section of the December issue to enable officers and Directors to communicate directly with the membership at large.

E. E.'s record goes back to June '67 for calling anticipatory attention to BofD and Executive Committee (ExecCom) topics of concern. Our megaphone reaches only 4,000 members out of 161,000. However, since they are highly placed in units having many more members, these 4,000 could, if they would, stir up discussion and the kind of feedback BofD wants. Don't wreck your agenda, but at luncheons, recess times, and off-moments, get and report a consensus-after-skull-practice—often better than one man's opinion. Any Director will be interested.

VOTING FOR 1971 OFFICERS and Directors. Polls close 12 noon, Nov. 2, at New York

(Bylaw 313.9), and the tellers will have the results ready when BofD meets Nov. 10-11 at Hollywood, Florida. As soon as BofD acts, a news release will become available. (Advance requests, Lee Nicol)

N. B. —A reminder to Section chairmen and publicity chairmen that elections are newsworthy locally in places where elected Directors (and elected Fellows—see next item) work and reside. Cf. E. E. Feb., p. 7.

ELECTION OF FELLOWS will be announced by press release shortly after BofD acts on Nov. 10. (Advance requests, Lee Nicol)

The staff also issues two special lists, by Sections and by Groups, and sends them out promptly. (Extra copies, Emily Sirjane, Sections; Marian Herrick, Groups)

IEEE ELECTED OFFICERS, 1972. On pp. 4C-4D will be found two nomination forms for use in proposing candidates for IEEE President and elected Vice President, to be voted upon in 1971 to take office in Jan. '72. Nominees must be Fellows or Senior Members. Other qualifications are stated in the guidelines on the back of each form. These nominations, solicited from all IEEE organizational units and individual members, are sought by Nominations & Appointments Committee. Feb. 1, '71, is deadline for recommendations. (Extra forms, Emily Sirjane)

#### TOP-SIDE DEVELOPMENTS

BYLAW CHANGES made by BofD in August are given on pp. 4A-4B. You may wish to associate them with your copy of the Bylaws (current version is that of Mar. 26, '70). Since other changes are now pending and three of those cited are contingent upon affirmative votes on Constitutional Amendments, a complete printed revision is being withheld until later. (Copy of current Bylaws, Betty Stillman. Extra copy of August changes, Audrey van Dort)

E. E. is sent without cost beyond dues to officers of IEEE Groups, Committees, Boards, Councils, Conferences, Regions, Sections, Subsections, Chapters, and Branches of IEEE. Second-class postage is paid at New York, N. Y.

COMMITTEE CHAIRMEN, 1971. Subject to ratification by 1971 BofD or ExecCom in January, chairmen of 1971 standing committees (Bylaw 304) have been selected by the August '70 BofD; and, in accordance with the Elections and Appointments Calendar (in Section and TAB Manuals—see Statements of Policy, page S), are now recommending their slates of other officers and committeemen.

A TWO-DAY JOINT MEETING of ExecCom and the Long Range Planning Committee (LRPC) was held in California, Aug. 18-19, specifically to discuss socio-technical problems. So much came out of it that it will take the rest of 1970 to explore all the avenues that were opened up. ExecCom meetings on Oct. 13, Nov. 9, Dec. 11, and BofD Nov. 10-11 will all be working on various phases. These dates are cited for the benefit of members who may wish to communicate with Directors.

One significant point made was that, while the Group structure of our technical activity is well oriented to needs within our own discipline, it may not be well oriented to the handling of public problems which cut across several disciplines—in fact, if misused, the Group structure could be a deterrent. Formal steps were taken to explore the validity of this assumption, and if found true, to see how new, problem-oriented organizations can be set up, flexibly to interface with other societies, agencies, and organizations on a problem-by-problem basis—tapping where relevant the existing expertise in the various Groups.

Cognizance was taken of the necessity for identifying promptly the socio-technical areas to which IEEE can effectively contribute; the extent of the contributions; and the national and transnational priorities calling for solution of critical problems.

IEEE 1971 BUDGET. August Exec Com took note that, due to inflation in the United States, the Institute, if it carried on all present projects, would be operating at a

deficit during calendar 1971. In connection with the 1971 Budget, BofD ordered a study of the financial aspects and programs of all Institute activities, with task forces assigned to each area of activity.

STANDARDS STAFF PEREGRINATES PERFORCE. To ease our containment at United Engineering Center (UEC), something had to give. As first result, genial John J. (Andy) Anderson, of Standards, got himself a new zipcode in Newark; and Sava Sherr, Manager of TAB's Standards Operation, who retains his UEC office, became the first of staff to taste the flavor of occasional interstate shuttling—without the benefit of tailored transportation, either. Hardy pioneers!

#### TOOLS AND AIDS

HICKERNELL PRESENTATION CENTER. Installed in the IEEE Board Room in 1967 (described in Spectrum, Mar. '67, p. 15; E. E. Apr. '67, p. 4) this oral-visual projection equipment has been used by many units at their New York meetings. Custody, which was one of Andy's helpful sidelines, passes now to Bob Loftus and Ed MacDonald.

#### PUBLICATION NEWS

STATEMENT FROM NEW EDITOR OF SPECTRUM. As surmised in E. E. Aug., p. 3, BofD did indeed appoint David Dewitt; and initial bow to his new readership occurred in Spectrum, Sept. '70, p. 21, q. v. On one page he tells a lot about our foremost journal's purposes, challenges, and operations; reveals the Editor's relationship to the publication and his ambitions for it; and invites requests for subjects to be covered in the future. Ball is in your court!

SUBSCRIPTIONS TO SPECTRUM overseas are being offered reciprocally to members of the Institution of Electrical Engineers (IEE, London) and to members of Verband Deutscher Elektrotechnika (VDE, Stuttgart), by bulk shipments abroad at rates to be set up by ExecCom. Similar arrangements will

be made in Regions 8, 9, 10, upon agreement reached with IEEE and any national electrical engineering society.

Heretofore it has not been simple for an IEEE member (short of becoming an IEE member) to secure or pay for a subscription, say, to Part III of the Proceedings of IEE. When this new plan becomes definitive, in terms of entering a subscription and drawing a check, due announcement will be made. Watch E. E.; watch Spectrum.

GEOGRAPHIC SOURCES OF PAPERS. Statistics presented on p. 4G, show that a quarter of our Transactions papers are originating in parts of the world outside United States and Canada—an impressive figure considering that relatively only a short time ago (1960) President Ronald McFarlan first vigorously promoted expansion of the Institute's activities overseas.

SOCIO-TECHNICAL PUBLICATION through IEEE. For retrieval purposes, this is to note a dignified exchange of con-and-pro views between T. H. Maguire, Jr., and President Granger in Spectrum, Sept. '70, pp. 9-10. Also that, in same issue, pp. 14-15, there is a report by staff writer Gordon Friedlander of discussions of certain facets of ecology in terms which mean something to engineers.

#### EDUCATION NEWS

CONTINUING EDUCATION. IEEE's Cassette Colloquia series has added "Integrated Circuits for Consumer Applications" and "Principles for Programming Process Computers," both based on experts' material presented at the 1970 March Convention. Particulars will be found in an IEEE ad in Spectrum. (Further information, Jack Kinn)

IEEE "SOUNDINGS," as predicted in E. E. June, p. 3, was duly initiated. See IEEE ad with order form in Spectrum, Sept. '70, p. 122; available Oct. 1. (Inquiries, Jack Kinn)

A THESPIAN IN OUR MIDST. Booking

offices sent scouts around to find the owner of the vibrant, melifluous voice that turns IEEE cassettes and "Soundings" into chefs d'oeuvres. Under a mound of papers and magnetic tape they found Walt Beam, who said he was digging for a better offer before he surrendered his amateur standing.

"DIAL ACCESS" INFORMATION. In E. E. June, p. 3, brief announcement was made of this projected new telephone service, then (and still) under test. More particulars are now available—see p. 4E. We run this to stir up interest—this is the way innovations take hold. (Comments invited, Jack Kinn)

### CONFERENCE NEWS

1970 MARCH CONVENTION figures are now available. Of the total 47,738 registration, 11,500 attended technical sessions at the hotel; 650 and 1,000 respectively were at the Highlight and Keynote evening sessions; the film theater at the Coliseum drew 5,000; the technical presentations at the Coliseum, 1,800.

As a result of the popularity of the last-mentioned practical how-to-do-it presentations, typically material of immediate use, the Coliseum technical program for 1971 will be beefed up another 200%—to more than 25 sessions—in addition to the film showings.

### REGION AND SECTION NEWS

ENGINEERING—AN OPEN PROFESSION. Past President Willenbrock, in Spectrum, Aug. '70, p. 29, says that Groups, Sections, Student Branches, Boards, and IEEE Committees have the collective ability to make our profession "open in fact as well as in theory," by "Encouraging individuals from the underrepresented segments of society to enter the electrical and electronics profession."

Note: Underline supplied by Ed., E. E. Review the article and see why. President Granger has also said that "one of the reasons there are so few Negroes entering engineering is that at the secondary school

level they are not made aware of engineering as a profession."

Correction of the existing anomaly will be effected only when these lads enter engineering schools—happily in good numbers but one by one. That's why Dr. Willenbrock concludes that "assistance for the educationally disadvantaged can be most effectively accomplished at the Section level." (Again, underlines supplied.)

TECHNICAL ACTIVITIES. E. E.'s most recent treatment of IEEE's reorganized technical setup appeared in E. E. Feb., pp. 4M-4N. Spectrum, Aug. '70, pp. 113-116, contained a progress report on the new Divisional structure and on Standards by member of Technical Activities Board's Operating Committee. There are flesh-and-blood profiles of the six new Divisions. Flag it for reference. (Note to Sections: This article contains information your present and future Chapters will be curious about.)

SECTION MEETINGS REPORT will be looked for at year-end. If left until last minute, compilation can become a burden, especially if, during the midyear transition, all records did not smoothly change hands. Suggestion to Section Chairmen and Secretaries: Get up to date through October now, so that November-December can easily be added to complete. Deadline for meeting-credits, Mar. 1, '71.

ORDERING SUPPLIES. Save time, save effort, and have on hand supplies to meet all requests immediately. How? By reviewing all supply requirements for the coming year and placing one order for all items.

ADDRESSING SERVICES AVAILABLE from IEEE. Instead of placing orders for lists one at a time, consider placing an order now to receive each month, on a date you specify, address labels for mailing announcements of meetings scheduled for the coming season. Advantages: A closely updated list is always on hand when you need it. You save time, unnecessary paperwork, and extra phone calls. The Institute can more closely schedule its



## IEEE BYLAW CHANGES

Board of Directors – August 22-23, 1970

### Dues, Fees, and Subscriptions

#### Bylaw

108.5 Institute dues

405.7 Group fees

501.7 Subscriptions

These are all on a calendar year basis, but concessions are made to new member applicants who pay before July 1 or January 1 in their initial, fractional year. BofD decided to advance the dates shown in the former Bylaws one month to permit Student Branch membership drives to start in September, and to make the same concession to applicants for all other grades.

Changes in all three Bylaws:

Wherever April 1 appeared, change to March 1				
" Sept. 30	"	"	"	Aug. 31
" Oct. 1	"	"	"	Sept. 1
" Mar. 31	"	"	"	last day of Feb.

110.1 Due-dates for payment of dues in 6-mo. installments

It was necessary to change this Bylaw to conform to changes in 108.5, 405.7, 501.7 (above). Revision advances the deadline for payment of dues, as well as the date for the issuance of dues bills, by one month. It will have the desirable effect of shortening the period (2 months instead of 3) of carrying members-in-arrears on the rolls, thereby saving the cost of one month's publications formerly sent to members-in-arrears.

Change: In 8th line, change three to two months.

105.7 Optional fees and status for members on military service

Formerly these were granted only to Students or former Students who entered military service within one year after graduation. Opening the option to others necessitated rewriting the Bylaw. It now reads:

"When an IEEE member, in any grade including Student, submits evidence to IEEE Headquarters that he has entered military service on a full-time basis, he may thereafter continue his membership and receive the privileges thereof for a period not to exceed four years, by payment of annual dues of \$5.00. Evidence of continued military service shall be provided with each annual dues payment. Alternatively, a member providing evidence of entrance into full-time military service may request that he be placed in inactive status, without payment of dues, for a period not to exceed four years, and his membership shall be recorded as uninterrupted for such period. Members on inactive status shall not be entitled to receive publications, member services or voting privileges."

### Nominations

Note: Changes in Bylaws 310.2, 313.5, and new Bylaw 313.11 are contingent upon approval, by voting members, of the Constitutional Amendment, now before them, providing that the number of voting members to validate nominations by petition shall be specified in the Bylaws.

313.5 Nomination of Directors by petition Substitute for former Bylaw the following:

Individual voting members may by petition propose names to be added to the ballot for the offices of President, Vice President to be elected by the voting members, and Delegate-Director. Such nominating petition must be submitted in a letter to the Board of Directors setting forth the office and the name of the proposed candidate, to be received at IEEE Headquarters no later than the Friday preceding August first. The petition must be signed by at least two percent of the total number of voting members eligible to vote for the office, as listed in the official IEEE membership records at the end of the previous year. For the office of Regional Delegate-Director the minimum number of signatures shall include at least two percent of the voting members in the Region, provided that a majority of the Sections in the Region shall each be represented on the petition by at least two percent of their voting members. For the office of Divisional Delegate-Director the minimum number of signatures shall include at least two percent of the voting members in the Division, provided that a majority of the Groups in the Division shall each be represented on the petition by at least two percent of their voting members. An individual member belonging to more than one Group within a Division, may sign such a petition only once, and he shall select, and designate with his signature, one Group to which his signature shall apply in meeting the requirements of this Bylaw."

310.2 Nomination of Divisional Directors Substitute the following for the last two sentences of the former Bylaw:

"Nominations by petition shall conform to Bylaw 313.5."

313.11 (new) Nominations from the floor or by petition in units that do not use mail ballots

Insert:

"For elective office in any unit of the IEEE, individual voting members eligible to vote in such election may nominate candidates either by a written petition signed by at least two percent of the eligible voting members or by majority vote at a nomination meeting of the unit, provided such

nominations are made at least 28 days before the date of election. Members shall be notified of all duly made nominations prior to the election."

Voting

313.10 Write-in voting

In view of new Bylaw 313.11, omit last sentence of Bylaw 313.10. Also substitute editorial rewording of first sentence ("Effective", etc.) as follows:

"For IEEE elections and elections of all units where mail ballots are used, the ballots shall include and identify, for each office in said election, space in which the voter may write the name of any person he desires to elect to that office."

313.9 Omission of inner envelope for IEEE balloting  
315.2

This action was taken to save cost of the inner envelope and risk of additional postage. In view of present method of tallying ballots, inner envelopes no longer serve a purpose.

Changes:

313.9, first sentence } Omit "in plain envelopes,  
315.2, second sentence } enclosed."  
313.9, second sentence }  
315.2, third sentence } Omit "outer."

Students

401.11 Term of office for chairman of Regional Student Activities Committee

Former Bylaw made its term coincide with that of the Regional Director. Purpose of the change was to avoid the problem introduced by the calendar-year term of office of the Regional Director, which may not coincide with the period of major activity of the Committee.

Change last sentence to read:

"The Chairman of this Committee shall be appointed from the membership of the Regional Student Activities Committee by the Regional Director, for a two-year term of office that corresponds with, or overlaps, that of the Regional Director."

305.6 IEEE Student Prize Paper Award  
Omit future reference to this award in this Bylaw, in accordance with March BofD action. (See E. E. June, p. 4)

General

311.7 Older members

The scope of the Life Member Fund Committee is enlarged to include the interests of older members whether or not they qualify as Life Members.

Add the following sentence to first paragraph:

"The Life Member Fund Committee shall consider suggestions from Institute members regarding activities of interest to older members and shall make recommendations to the Executive Committee of the Board of Directors respecting such activities."

305.1 Committees of the Awards Board

Appointments to these committees were shifted from the Executive Committee to the Awards Board itself. This change furthers the principle of decentralizing authority from ExecCom to various Boards; it also conforms to the general proviso of Bylaw 304.3 that a Board may create its subcommittees.

Change first sentence in third paragraph to read:

"The members other than the Chairman of the Committees of the Awards Board shall be appointed by the Awards Board."

301.13 Reimbursement of Directors' expenses

The change provides for Directors-Elect invited to BofD meetings. It also eliminates reimbursement for attending specified meetings.

Substitute the following for the former Bylaw:

"Reimbursement for actual and necessary expenses is authorized for Directors for the purpose of attending meetings of the Board of Directors, and for Directors-Elect when invited to attend a meeting of the Board of Directors as observers. Similar reimbursement is authorized for members of the Executive Committee for the purpose of attending meetings of the Committee, and for Directors attending meetings at which the Director performs duties assigned to his office."

- end -



RECOMMENDED NOMINEE FOR IEEE SERVICE

NOMINEE RECOMMENDED FOR: (indicate office, committee, board)

Before filling in, please read Guidelines on reverse side.

NOMINEE \_\_\_\_\_  
First Name Middle Initial(s) Last Name

MAILING ADDRESS \_\_\_\_\_

BUSINESS AFFILIATION \_\_\_\_\_  
Name of Company

\_\_\_\_\_ Company Address Telephone Number

\_\_\_\_\_ Title or Position in Company

\_\_\_\_\_ Indicate present type of work: research, development, sales, teaching, etc.

IEEE RECORD: Present Membership Grade \_\_\_\_\_

\*Offices Held (with dates) \_\_\_\_\_

\*Medals, Prizes, Awards \_\_\_\_\_

Other \_\_\_\_\_

\* If available to nominator.

OTHER INSTITUTE AND SOCIETY MEMBERSHIPS AND GRADES \_\_\_\_\_

COMMENTS BY NOMINATOR: Give an outline of the nominee's specific qualifications for the nomination or appointment here (use separate sheet if necessary).

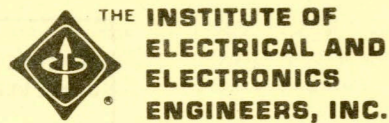
\_\_\_\_\_ Date

\_\_\_\_\_ Name of Nominator

\_\_\_\_\_ Telephone Number

\_\_\_\_\_ Address

B-50  
Nov.1968



345 EAST 47TH STREET, NEW YORK, N.Y. 10017 AREA CODE 212 752-6800

GUIDELINES FOR RECOMMENDING NOMINEES FOR SERVICE TO THE IEEE

This form shall be used in submitting the names of nominees to be considered for the elective offices of the IEEE (President, Vice President, and Director-at-Large) and for recommending appointments to the IEEE Committees and Boards. The completed form shall be mailed to the Staff Secretary of the Nominations and Appointments Committee at IEEE, 345 East 47th Street, New York, N. Y. 10017.

The general qualifications for service to IEEE are not different from those in any position of responsibility and trust: competence, experience, willingness to take on the task, availability of time to participate, enthusiasm, and vigor. In the absence of such qualities, it is unwise to recommend a candidate merely as a reward for past service. In fact, if past service indicates that the candidate does not have the competence suitable to the task, he should not be proposed.

Competence implies knowledge and ability to serve creatively and actively, not merely passively. The responsibilities of the IEEE Directors and the tasks of the various Standing Committees and Boards are described in the IEEE Bylaws, and these should be consulted if the nominator is not certain of the tasks to be performed. Two types of competence are involved, technical and administrative. Few candidates possess both in equal measure, but every nominee should be strong in at least one of these, depending on the task he will be called on to perform. The technical tasks require knowledge of one or more engineering or scientific fields and the ability to make sound judgments. Administrative tasks involve the judgment of men and organizational operations, and the ability to develop appropriate Institute policies and objectives.

In judging candidates on the basis of experience, prior work in Institute affairs is, of course, important but should not outweigh ability. Since new vitality must be brought into the IEEE organization, equivalent experience outside the Institute (as in other organizations, or in connection with the candidate's professional employment) should be taken into account. In many cases a candidate, having no experience bearing specifically on the task, may be suitable if he is highly competent, since he will soon "learn the ropes."

Willingness to serve is, of course, essential. There is no rule against a nominee being consulted by the nominator to ascertain this. However, since candidates are proposed from many sources, the Executive Committee and Board may have more candidates than there are open positions. When consulting nominees, therefore, it should be made clear that he cannot be assured of appointment.

Availability of time to participate is, usually, an important consideration in the candidate's willingness to serve. Committee service is so vital to the welfare of the Institute, that most industrial, academic and governmental organizations recognize its importance and the comparatively small time required (compared with the working year) can be justified. A perfect attendance record at Committee meetings is seldom achieved, even by the Chairman. Moreover, specially gifted Committee workers can contribute far more ideas and wisdom in a few meetings than does the less able member who makes attendance a fetish.

Enthusiasm, vigor and creativity are, we believe, among the most important considerations. One of the troubles experienced by all professional societies is the tendency to populate committees with senior statesmen who, however distinguished, are out of touch with present challenges and opportunities. Electrical and electronics engineering is a fast-moving profession, and the Institute needs a continual infusion of new ideas. Much of this must come from younger men, although chronological age is not necessarily an indicator of a youthful attitude of mind, nor of current involvement in the affairs of the profession.



DATE (DIAL ACCESS TECHNICAL EDUCATION)

A new IEEE service for the individual member is currently under test in the New York Section. DATE will offer

- Up-to-the-minute status reviews of selected technologies
- Short current bibliographies in each technology
- IEEE expertise in compilation and presentation of information
- Convenience of a single brief telephone call for the user.

How it is planned to use DATE in New York City

- Watch for announcement of the opening of service in NOVEMBER 1970, together with the New York City DATE telephone number
- Select your subject by tape number
- Dial DATE and ask to hear the tape number of your choice. Be prepared to take notes.

Representative DATE titles

- Display Devices
- Microwave Integrated Circuits
- Human Factors Design Concepts
- Modulation System Theory
- Distributed Networks
- Thermionics
- Computer Time-Sharing.

Success of the test in the IEEE New York Section will determine the future of this program.



**GEOGRAPHIC SOURCE OF IEEE TRANSACTIONS  
AND PROCEEDINGS PAPERS**

TRANSACTIONS

	<u>U.S.A.</u>	<u>Canada</u>	<u>Region 8 (Europe)</u>	<u>Region 9 (Latin America)</u>	<u>Region 10 Asia &amp; Africa</u>
AES (Aerospace & Electronic Systems)	92%	1%	7%	-	-
AP (Antennas & Propagation)	86	3	1	-	10%
AU (Audio & Electroacoustics)	97	-	3	-	-
AC (Automatic Control)	89	-	8	-	3
BME (Bio-medical Engineering)	87	5	8	-	-
BTR (Broadcast & Television Receivers)	88	3	9	-	-
BC (Broadcasting)	82	-	18	-	-
CT (Circuit Theory)	86	-	4	-	10
ComTech (Communication Technology)	66	5	18	1	10
C (Computers)	85	5	3	-	7
E (Education)	86	2	8	-	4
EI (Electrical Insulation)	80	13	7	-	-
EMC (Electromagnetic Compatibility)	100	-	-	-	-
ED (Electron Devices)	87	-	12	-	1
EM (Engineering Management)	100	-	-	-	-
EWS (Engineering Writing & Speech)	100	-	-	-	-
GE (Geoscience Electronics)	90	7	-	-	3
IEGI (Industrial Electronics & Control Instrumentation)	95	-	5	-	-
IGA (Industry & General Applications)	83	4	7	-	6
IT (Information Theory)	84	2	4	-	10
IM (Instrumentation & Measurement)	59	13	14	-	14
MAG (Magnetics)	43	2	44	-	11
MMS (Man-Machine Systems)	100	-	-	-	-
MTT (Microwave Theory & Techniques)	74	2	11	-	13
NS (Nuclear Science)	72	4	24	-	-
PMP (Parts, Materials & Packaging)	75	-	6	-	19
PAS (Power Apparatus & Systems)	65	11	13	0.4	11
(J)QE (Journal of Quantum Electronics)	74	1	22	-	3
R (Reliability)	100	-	-	-	-
(J)SC (Journal of Solid State Circuits)	75	-	8	-	17
SU (Sonics & Ultrasonics)	63	-	9	6	22
SSC (Systems Science & Cybernetics)	83	3	3	-	11
VT (Vehicular Technology)	78	-	-	-	22
Average	72	3	18	1	6
PROCEEDINGS	78	14	5	-	3



# Technical Activities Board

## MERGER TO FORM SYSTEMS, MAN, AND CYBERNETICS (G-SMC)

The IEEE Man-Machine Systems (G-MMS) and Systems Science and Cybernetics (G-SSC) Groups will merge effective January 1, to become the IEEE Systems, Man, and Cybernetics Group (G-SMC). The remaining issues of 1970 Transactions and Newsletters will be distributed to the separate Group memberships. Other commitments of the separate Groups will be assumed as commitments of the merged Group, including the sponsorship of technical meetings and similar activities. The merged Group will publish Transactions on a quarterly basis in 1971 and will accept appropriate papers for the two former Transactions.

## ESTABLISHMENT OF IEEE SOCIETIES

Although the petitions by the IEEE Computer Group and Power Group to become IEEE Societies have been approved in principal, for these to become effective on January 1971, the IEEE By-Laws must be amended to provide for Societies. The IEEE Executive Committee has established an AdHoc Committee, Chaired by Dr. Werner Buchholz, to draft suitable By-Law amendments. These are to be reviewed by the Executive Committee at its October meeting and then submitted to the IEEE Board for action at their November 10-11 meeting.

## NEW IMAGE FOR IEEE EDUCATION GROUP

In the past, this Group has tended to give major emphasis to "what should be taught" and curriculum problems in the USA. Under the Chairmanship of Dr. Warren B. Boast, the Group is being reorganized and will focus attention on "how to teach," including educational technology applicable to other subjects than electrical engineering.

The new statement of scope for the Group is as follows:

"The Field of Interest of the Group shall be education methods, educational technology, instructional materials, and educational and professional development programs within the electrical engineering disciplines."

Members interested in working with the Group in its new role should contact:

Dr. Warren B. Boast  
Electrical Engineering Department  
Iowa State College  
Ames, Iowa 50010

Plans are proceeding for EUROCON '71, the first IEEE Region 8 Conference, to be held October 18-22 at the Palais de Beaulieu in Lausanne, Switzerland. Many national societies in the Region 8 area are joining with the various sections in supporting this first conference. There will be exhibits. A call for papers has been distributed to the editors of all IEEE publications and should appear in early issues. "Information Processing in Large Systems," "Computer Application," "Long Distance Communication," "Integrated Electronics," "New Solid State Device Applications," "Distribution of Electrical Power," "Biomedical Engineering," "Electronic Time-Keeping" are the major topics to be covered.

For further information, contact IEEE headquarters in New York or communicate directly with the EUROCON '71 General Chairman,

F. Eggimann  
A G Brown Boveri & Cie  
P.O. Box CH-5401 Baden,  
Switzerland

or the Technical Program Chairman,

A. Rannestad  
NDRE, P.O. Box 25  
N-2007 Kjeller,  
Norway

AIR TRAVEL TO IEEE CONFERENCES

At the suggestion of Dr. Chestnut, Vice President for Technical Activities, the TAB Secretary has been looking into the possibility of organizing air travel plans that would encourage IEEE members to make overseas flights to attend IEEE Conferences. EUROCON '71 will be used as the first experiment in such arrangements. It is anticipated that several options will be offered for travel from North America to attend EUROCON '71. Information on these will be published late in the Spring of 1971, after an international meeting that may revise the international air-travel fares. Similar arrangements for Regions 9 and 10 are also being investigated.

# IEEE 71

## PROMOTION OF OTHER IEEE CONFERENCES DURING THE 1971 MARCH CONVENTION

A new policy has been adopted that permits future IEEE sponsored conferences to take advantage of promotional opportunities during the 1971 IEEE Convention. Please note that only conferences to be held in the time period March 27, 1971, to March 20, 1972, as listed in the IEEE Master Meeting Schedule, are eligible.

Two types of promotions are available:

Panel Displays will be available at both the New York Coliseum and Hilton. They will consist of large panels (supplied by IEEE) for posters and folders or placecards (supplied by the sponsors) providing details on each event. There can be only one item per event at either location; size will be limited to 12" x 18" maximum. No personnel attendance or literature will be permitted. Panels will be available on Sunday morning, March 21, 1971 at both facilities.

Please reserve panel space. We will mail our display item flat and ready for mounting (Attention: IEEE Convention Department) or bring it on Sunday morning, March 21 to the New York Hilton.

Exhibit Spaces will be available at the Coliseum, set up and furnished (by IEEE) with carpets, chair, table, sign, and backwall panel board for \$100. These exhibits must be manned throughout show open hours by people competent to explain the particular conference. Posters and other visual display material can be hung on the panel board, and literature may be handed out from the space itself.

Please reserve exhibit space. Enclosed is a check for \$100 made out to IEEE Convention Department. We plan to arrange our exhibit on Saturday, March 20 or Sunday, March 21 at the Coliseum. Here is the way we want our conference listed in the official Guide and on the sign to be furnished.

IEEE Organization \_\_\_\_\_

By \_\_\_\_\_

Address \_\_\_\_\_



computer workload.

SECTIONS' RESERVES FOR INVESTMENT. E. E. Apr., p. 1, gave information under this heading, applying to Group funds.

Statement of Policy #11-A provides that surplus funds of Sections may not be invested without prior authorization of ExecCom. Sections have to keep their funds in checking and savings accounts, preferably Government insured. (It was ruled in one instance that a Section could invest in short-term U. S. Treasury notes which provide a higher yield than bank savings accounts and afford the same safety of principal as a federally-insured account.) If Sections have reserve funds that can be invested on a permanent basis, they may be placed, if desired, in the IEEE Investment Portfolio. (Inquiries, Bill Keyes)

#### STUDENT NEWS

STUDENT ACTIVITIES COMMITTEE of the Educational Activities Board (EAB) will report to the Regional Activities Board (RAB) after Jan. 1, 1971. Bylaw changes to effect the transfer will come before BofD Nov. 9. (Cf. E. E. Aug., p. 5)

STUDENT DUES INCREASED. BofD has voted to increase dues to \$8 a year, from \$5, effective Jan. 1, 1971. But dues for 1971, if paid by Dec. 31 this year, will be at the old \$5 rate.

Even the higher new level involves continued support from general Institute funds.

#### "FOR YOUR INFORMATION"

INSTITUTE VITALITY. Despite layoffs in industry, IEEE membership figures attest to value of our services to members. As of July 31, '70, grand total paid-up membership was 160,466 compared to 154,937 same date one year ago. Total number of Group fees paid was 145,964 vs. 141,702.

EDISON MEDAL. Formerly restricted to recipients resident in U.S. and Canada, the

medal may now be awarded to "a resident of any country where IEEE has members." The change involved petition to the courts to revise restrictions in the deed of gift.

OLDER MEMBERS have not been forgotten by BofD, whether or not they qualify as Life Members. See how Bylaw 311.7 has been revised (p. 4B) to put them under the aegis of a "concerned" committee.

AFFILIATE SURCHARGES INCREASED. Effective Jan. 1, '71, surcharges, including renewals, will be at the rate of \$18, instead of \$10.

IEEE'S INSURANCE PLAN for members. There were 33,290 insurance certificates in force in 1969, compared with 28,060 in 1968. Experience record was such as to make possible a 50% dividend credit on premiums.

Each member has to make his own comparison of IEEE's policies with others open to him. He alone knows about his eligibilities (to armed-forces insurance, retired-persons policies, fraternal plans, etc.) and his handicaps (age, health, etc.). In some cases (not in all cases) members have found that the annual savings they realize on premiums-less-dividends, IEEE vs. others open to them, are enough to pay their IEEE dues several times over.

NEW RENEWAL INVOICE will be mailed to members for annual Institute dues, plus renewal of Group memberships and subscriptions. The principal addition is a request (parallel to the Directory Listing) to provide current information on position and employer affiliation, and also a box to report highest academic degree earned. You may be asked why this information is needed — the answer is to enable headquarters to do a better all-around job with up-to-date information, and for sections to pinpoint more accurately the business affiliations of their members.

ADD EXTRA-MURAL HONORS. General Manager Fink has been elected President of the Council of Engineering & Scientific Society Secretaries, which comprises the chief executives of 100 societies.

Past President Patrick E. Haggerty has been awarded the John Fritz Medal for 1971. He has selected IEEE as the presenting society.

E. E. DOES NOT INTERPOSE itself in the line of organization correspondence. But, as our masthead implies, we are in the business of exchanging and promulgating ideas—up, down, and sideways. If your entity has done something which, if copied by like units throughout the Institute, would represent a step forward, please drop the editor a brief note—perhaps attaching a copy of something, or naming someone he can see at IEEE to get the low-down.

We can use, for example, anything your unit has done (or even is about to try), within the concern of the electrical-electronics profession: to identify relevant socio-technological areas, to attract the educationally disadvantaged, to help technicians find a place, to "liberate" more women, to train members to get or hold jobs, to learn from other disciplines or other countries, to obtain a "break" (if that be possible) from career counselors.

THE INFORMAL TOUCH. Ever since Dec. '68, E. E. has been making references to staff members by the call-me-Bob, call-me-Peg, names used in the office. You are free to do so when you phone. To us, "Pat" means Patricia more often than Patrick. It's safe to use "Miss" on envelopes unless we say "Mrs." We carry our camaraderie up to include Don Fink (by request) and there stop. Directors and others we refer to less familiarly, as befits members of a learned society.

I WISH I'D SAID THAT: "As technologists we are the potential victims of a society that may conclude, rightly or wrongly,

that we have collectively spindled, folded, and mutilated its values." —Neal Eddy in Spectrum, Aug. '70, p. 55.

ADD "GOOD QUESTION!" Q. — Why don't you show "Group Chapters Dissolved" as well as "New Group Chapters in Sections"? A. — Because, under Bylaws 406.4 and 406.5, the fadeout is so gradual that the chipping of the epitaph can't be heard in a graveyard. It is Life, darn it! that some Chapters fall by the wayside. But the ones that count are the ones that last—they all begin small and are worthy of a good round hail: "Welcome Aboard!" Nothing ventured, nothing have.

#### WELCOME ABOARD!

New IEEE Societies, authorized and in process of being formed:

Computer ) Precise names to be  
Power ) announced

New Subsections:

New Brunswick Subsection of  
Canadian Atlantic Section  
Northwest Subsection of Chicago  
Section  
Tamil Nadu Subsection of India Section

New Group Chapter:

Chicago Section—Joint Chapter on  
Antennas & Propagation, and  
Microwave Theory & Techniques

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