



IEEE Region 8 newsletter

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INSTITUTE NEWS

A Plan to Reorganise the Structure Supporting IEEE

Technical Activities :

One of IEEE's greatest strengths, the Group system, has also been a source of weakness. Years ago, the IRE and AIEE each covered a very broad technical area, each had a single major publication and their conferences and meetings usually covered the entire field of electrical and electronic engineering. To-day

we have 31 specialised Groups, every one with its own publication, which now covers a specific area of interest. It is almost inevitable with such a structure that there will be gaps between these areas of interest. Also, extensions of coverage may no longer have a single point of contact.

The continued vitality of IEEE, and its usefulness to its members as the best professional engineering society, depends on adaptation to change and on incorporation of new technologies and new engineering occupations into the technical structure. Since the Group system, as originally set up, had certain weaknesses pointed out above, it is essential that, in an improved technical organisation, something be done to overcome this weakness without interfering with the strengths.

In the proposed 'clustering' of a number of Groups into a single division, there is now a potential that these divisions can view their area of interest more broadly than that of the component Groups comprising them. For this reason, one of the very important responsibilities of the elected Director representing each division is to see to it that the Groups in his division overlap as much as possible in technical interest, so as not to leave unfilled gaps. This will be easier to do in a cluster of a half dozen related Groups than it has been with 31 independent ones.

A second safeguard, which has been put into the proposed structuring, is designation of a single individual (presumably a Director, or the Vice-Chairman of TAB), who is given primary responsibility for attention to new and inter-disciplinary technologies. This Director is to be given the financial resources, the editorial and staff support, and the conference organisation responsibilities, sufficient to achieve the goal of IEEE involvement. At the same time, he will be asked to co-ordinate and oversee existing inter-disciplinary activities which cover more than one cluster or division. This administrator must also advise

on such actions on new technology within clusters or divisions which are necessary for the best interest of IEEE as a whole.

As another responsibility for this 'new Technology' administrator, the proposed technical organisation suggests that he improve technical services for many IEEE members who are not affiliated with any Group. For example, there are many professionally active non-Group members who are either exceptionally broad in their technical interests, or who are involved in technologies which are not covered in any of our present 31 Groups. These people are today not well taken care of by the present Group structure. Under the proposed improvement, support for publications, conferences and related technical services will be made available.

Also envisaged in the improved technical organisation is enhanced potential for affiliating or merging with already established outside professional societies which are pertinent to IEEE interests.

TAB Technical Planning Committee :

During 1969 the Technical Activities Board appointed a Technical Planning Committee, which was given responsibility for new technologies, i.e., those which properly belong within IEEE but which might be overlooked by our present 31 specific technical Groups. Two meetings have now been held, with objectives (a) to identify the most important new technologies, (b) to act on those in which delay is inadvisable, and (c) to propose a permanent and effective mechanism by which IEEE will exercise continuous leadership in new subject matter. The word 'new' in this context is intended to include both the scientifically new, and that which is new to IEEE but which might have a substantial past history.

Among the topics considered were the following: Computer aided design; Cable TV; Electric printing; Holography and electro-optical systems; Plasmas and MHD; Oceanography; Acoustic waves and Filtering; Manufacturing technology; Cryogenics; Applied mathematics; History of electrical engineering; Social systems (transportation, education, pollution, crime detection, data networks, urban planning, hospital systems).

The most important action of the Technical Planning Committee was to co-operate with TAB to see that the future technical organisation of the IEEE would be flexible enough, alert enough, and resourceful enough to absorb new technologies. Language has been put in the general principles of organisation of the Group structure, and detailed responsibility is to be developed whereby it becomes possible for IEEE to remain the leading professional society in electrical and electronic fields. Whether it actually does will depend on the enthusiasm and participation of present members in adapting to change.

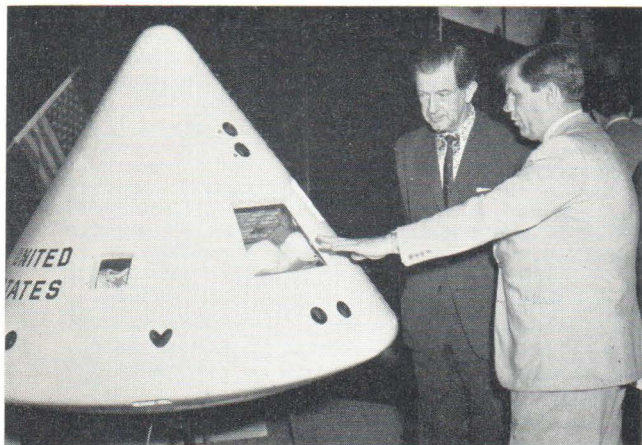
In many cases, responsibility for action ultimately lies within the Group. IEEE Groups are expected to energetically and actively alter and/or enlarge their technical sphere of influence as conditions change. In summary, the Technical Planning Committee urges Group members to take a broad view of their technology and, when appropriate, to stretch or change their definitions of scope so that IEEE can best serve the engineer and his future welfare.

Regional Activities Board :

Five new committees have been set up—Finance, Policy and Planning, Member Services, Student Activities and Technical Activities. Dr. Wellinger has been appointed Chairman of the last of these.

Boundaries between Regions :

As from 1 January 1970, new lines of demarcation will be drawn across Africa, in the Near East and in U.S.S.R. between Regions 8 and 10. A full report of the details of the new boundaries will be published as soon as these have been fixed.



MAN ON THE MOON

Professor Robert C. G. Williams (see top of page 3), the Immediate Past Director of Region 8, and Peter Fairley, Science Editor of Independent Television News, looking at a one-third size replica of the Apollo 11 Lunar Module at the 'Man on the Moon' exhibition recently held in London.

Meanwhile, Dr. R. C. G. Williams and Mr. W. H. Devenish took the opportunity of being in Teheran for the General Meeting of the International Electrotechnical Commission to discuss with several IEEE members in Iran the possibility of a Section being formed there.

Election of Fellows :

President Willenbrock has formed a 'blue-ribbon' panel to re-examine the nature of Fellow recognition in the broad context of IEEE and the mechanisms employed in the conduct of this recognition function, and to make appropriate recommendations to the Board of Directors.

Section Student Activities Committee Manual :

A Section Student Activities Committee Manual is being added to the list of Manuals prepared for Section use. Drafted by the former Sections Committee, reviewed by RAB and approved for release, it is now being edited for printing and mailing. It

stresses the important relationships of Sections to Students and Student Branches (all classes) in Section territory. (For copies, contact Miss E. Sirjane at Headquarters.)

New Holiday Schedule in U.S. :

In scheduling a visit to U.S.A., or even in making a long-distance phone call, it is frustrating or worse to run into an unsuspected holiday. Beware then, 1970 and thereafter in the U.S., where the 'Holidays-on-Monday' movement has been approved by 36 States and is pending in all but two of the remaining 14. Here are the 1970 dates the States, including New York, are affirming—New Year: Thursday, 1 January; Washington's Birthday: 16 February (*third Monday* vice 22); Good Friday, 27 March; Memorial Day: 25 May (*last Monday*, vice 30); 4 July; Labour Day: 7 September (*first Monday*); Columbus: 12 October (*second Monday*); Veterans: 26 October (*fourth Monday* October, vice 11 November); Election: 3 November (Tuesday after first Monday); Thanksgiving: 26 November (*fourth Thursday*); Christmas: Friday, 26 December. (Italics denote new formula.)

REGION 8 NEWS

Members Elevated to Fellow Grade :

As from 1 January 1970 the Board of Directors elected 122 members of IEEE to the grade of Fellow. All members in Region 8 will be interested in the following extract from the full list :—

Denmark Section—
Ingerslev, Fritz H. B.

For contributions to electroacoustics and noise control.

Pedersen, Svend A. C.

For contributions in the development of measurement methods applicable to radio receivers, and for leadership in international standardisation.

France Section—
Besson, Pierre A. J.

For research, management and teaching in the electrical power and electronics fields.

Laurent, Pierre G.

For achievements in the development and design of electrical apparatus and their application to transmission systems.

Ortusi, Jean A.

For pioneering work in wave-guide theory, for original studies of circuit analysis and synthesis, and for contributions to the education of electronic engineers.

Germany (West) Section—
Wustenev, Herbert H.

For work in development and design of telegraph and data transmission equipment.

North Italy Section—
Floriani, Virgilio

For contribution to the development of radio links and related technology.

Switzerland Section—
Karolus, August

For work in television and facsimile-transmission, in electro-optical methods for measuring distances and in development of time and frequency standards.

United Kingdom and Republic of Ireland Section—
Lord Bowden of Chesterfield (Bowden, B. Vivian)

For contributions in the fields of radar and digital computers.

Professor Rawcliffe, Gordon H.

For contributions to electrical machines development, particularly in the field of pole-amplitude modulation.

Wilcox, Thomas W.

For contributions to high-voltage circuit breakers.

Publications of Region 8 Authors in the Transactions :

Professor Borgnis reports that the situation has considerably improved now that the following procedure has been established for handling author complaints:—

(a) If an author has a *non-technical* procedural complaint against an editor, such as no acknowledgement of receipt of manuscript, no answer to letters of enquiry, or no word on acceptance of a paper, he should write to Mr. E. K. Gannett, Director of Editorial Services at New York Headquarters, and he will take steps to see that the editor responds promptly to the author.

(b) If an author from the U.S. has a complaint of a *technic* nature, i.e., he disagrees with the factual basis of an editor's decision, he should take the matter up with the editor, asking for reconsideration and giving the reasons why.

(c) It was agreed between Professor M. E. van Valkenburg, Vice-President for Publication Activities, Mr. E. K. Gannett and Professor F. E. Borgnis that, in the case of Region 8, authors should be advised to report complaints mentioned under (a) and (b) also to Professor Borgnis at Zurich (7 Sternwartstrasse, 8006 Zurich), who will co-operate with Mr. Gannett in supporting justified claims.

(d) If under (a) above, Mr. Gannett should detect that there are repeated complaints against the same editor, or if he receives a complaint of an unusually serious nature, he will report the matter to a member of the Publications Committee of TAB, who has been specifically designated for this purpose, who will then take appropriate further measures to correct the situation.

Partly as a result of the complaints provided, a general survey has been made of the average time required by each Transaction to review papers for publication. The results of this survey have been given to the Publications Board, the TAB Publications Committee, and the Chairmen and Editors of all Groups for further action where appropriate. The Publications Board directed that an investigation be made to determine the Transactions rejection ratios of papers from the U.S. as compared with papers from abroad.

It is hoped that this agreement will help to reduce considerably the difficulties so far encountered with respect to published papers in general and especially from authors in Region 8.

Furthermore, it can be reported that considerable improvement has been reached with respect to publications in the power field from authors in Region 8. In the future the Power Group agrees that for a paper submitted for publication from Region 8 and favourably recommended through the reviewers and the editor for publication, the Power Group upon request from the author will provide a substitute presenter in the U.S. who will read the paper submitted at the forthcoming meeting of the Power Group on behalf of the author. This consequently relieves the author from personally attending the respecting meeting of the Power Group if he so wishes. In circumstances when it is not feasible to arrange for presentation and the paper is considered to be of unusual merit, the chairman of the cognizant Technical Committee may recommend publication without presentation upon approval of the chairman of the Technical Operations Department. Written discussions will be invited in such cases and included in a later designated issue of the Transactions.

First Region 8 Convention :

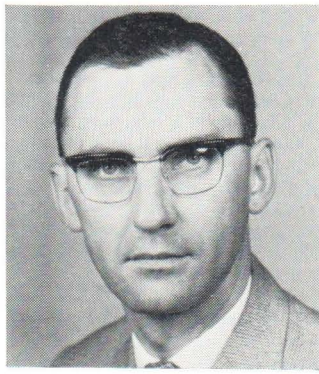
The Convention Steering Committee has held preliminary discussions about the domains of interest, arrangement of sessions, form of conference publications, registration fees and the dates for the Convention. All Region 8 Committee members have been informed of details and asked for comments and further suggestions.

IEEE Membership Application in Spanish :

Members who would find it convenient to pass a membership application form in Spanish to a colleague or business associate are reminded that these are available from Section Officers or direct from Miss Emily Sirjane at Headquarters in New York.



Mr. R. Baudry,
Vice-Chairman and Contributing
Editor, France Section.



Mr. H. A. Laett,
Vice-Chairman and Contributing
Editor, Switzerland Section.

Professorship for Dr. Robert C. G. Williams :

All members will be pleased to learn that the Immediate Past Director of Region 8 has been appointed Visiting Professor of Electronics at the University of Surrey.

IEEE Neckties :

IEEE Neckties for members, which originated and were first worn in the United Kingdom and Republic of Ireland Section,

INTERNATIONAL MEETINGS

1970 IEEE International Geoscience Electronics

Symposium :

The Second International Geoscience Electronics Symposium will be held in Washington, D.C., from 14 to 17 April 1970. The purposes of this Symposium are the presentation of reports on work in progress in the field of geoscience electronics, and the stimulation of an exchange of information on the numerous aspects of this field, with particular emphasis on geoscience electronics hardware. Sessions will include, but not be limited to, the following categories:—

Apollo instrumentation; nimbus b. instrumentation; orbiting astronomical observatory; planetary geophysical instrumentation; off-shore instrumentation; atmospheric and water pollution; earth resources survey; computers in geoscience electronics; oceanographic instrumentation; earth seismology instrumentation; remote sensing instrumentation; air-sea interface.

For further information write to Mr. Ralph Bernstein, Chairman, Technical Programme Committee, 1970 IEEE International Geoscience Electronics Symposium, IBM Corporation, 18100 Frederick Pike, Gaithersburg, Maryland 20760, U.S.A.

1970 IEEE International Microwave Symposium :

The G-MTT Symposium will be held from 11 to 14 May 1970 at the Newporter Inn, Newport Beach, California, U.S.A. The Symposium will be a comprehensive unclassified technical programme covering the important new developments pertinent to the field of microwave theory and techniques. Original papers are solicited on subjects in the following areas: Computer oriented microwave practices; Microwave microelectronics; Solid-state sources and devices; Noise in solid-state devices and systems; Microwave integrated circuits; Microwave physics and materials; Microwave acoustics; Microwave aspects of optoelectronics and holography; Microwave signal processing; Ferrite devices; Microwave power engineering; Millimetre wave components and systems; Microwave components and measurement techniques.

Authors must submit in English 5 copies of each summary and abstract. The abstract should contain 20–50 words with no illustrations. Summaries are to be 500–1,000 words in length with a maximum of 6 illustrations, appropriate to a 20-minute paper. Since papers will be selected on the basis of the summaries, they must *clearly describe what new and significant results have been obtained*, supported by illustrations where appropriate. All material should be mailed by 30 January 1970 to Dr. Raymond H. DuHamel, Chairman, Technical Programme Committee, Granger Associates, 1601 California Avenue, Palo Alto, California 94304. Authors will be notified of acceptance by 20 February 1970.

1970 IEEE International Conference on Communications :

This Conference will take place in San Francisco from 8 to 10 June 1970, in the San Francisco Hilton Hotel. The distribution of the sessions over the different fields, such as microwave, data transmission, etc., will be approximately the same in 1970. The key theme of 'Communications in the Development of Nations' is expected to bring fresh approaches to several sessions.

It is hoped that members in Region 8 may plan to attend this Conference and to meet colleagues from the U.S. and many other countries. Conscious of the need for adequate accommodation and personal enjoyment of visitors, special efforts are being made to assist friends from outside U.S.A. For further information write to Gerd D. Wallenstein, ICC '70 International

are available for purchase by IEEE members anywhere and of any grade. Prices vary with the currency; for the U.S. it is \$4, payable by ordinary cheque. To order use cut-out from May 'Spectrum,' p. 26, or August 'Spectrum,' p. 109, or write to IEEE, County Secretarial Services, 8 The Flower Walk, Guildford, Surrey, England, for copy of flyer with description, illustration, order form.

Participation Chairman, Lenkurt Electric Co. Inc., 1105 County Road, San Carlos, California 94070, U.S.A.

1970 IEEE International Symposium on Information Theory :

Members are reminded of this Symposium, to be held in Noordwijk, The Netherlands, from 15 to 19 June 1970. The deadline for the submission of all manuscripts and abstracts on the topics listed previously is 1 January 1970. For further information contact Dr. P. E. Green, Jr., MIT Lincoln Laboratory, Lexington, Massachusetts 02173, U.S.A., or Dr. F. L. Stumpers, Philips Research Laboratories, N.V. Philips Gloeilampenfabrieken, Eindhoven, The Netherlands.



Professor J. R. Mortlock,
Chairman, U.K. and R.I. Section.



Mr. T. K. Tawfik,
Contributing Editor, Denmark Section.

1970 IEEE International Symposium on Electromagnetic Compatibility :

The 1970 Symposium will be held in the Convention Centre at Anaheim, California, from 14 to 16 July 1970. The theme for this Symposium will be 'The Expanding Science of EMC,' and the topics should fall into one of the following general categories, with some emphasis on EMC aspects in the selected category:—

(1) *Interdisciplinary Topics*: (a) Science and EMC applications in astronomy, physics, oceanography, space exploration, etc. (b) Science of management as related to EMC in value judgements, allocation of resources, spectrum utilisation, economic considerations, etc. (c) 'Electromagnetic smog'—sociological and medical aspects of electromagnetic energy usage and electromagnetic by-products of electrical and other forms of energy release. (d) Hazards of natural sources of electromagnetic energy. (e) Electrical and electronic equipment trends affecting EMC research and development.

(2) *EMC Specialities—State of the Art*: (a) New developments in EMC techniques, including circuit development, instrumentation, analysis and suppression techniques. (b) Trends in EMC research and development, and new EMC problem statements.

(3) *Progress Reports*: (a) Industry committees and panels. (b) Government agency activities (NASA, FCC, Military Agencies, DoD agencies, etc.).

For further information write to Mr. J. C. Senn, Technical Programme Chairman, P.O. Box 1970, Anaheim, California 92803, U.S.A.

NEWS OF THE SECTIONS

DENMARK SECTION :

On 24 September 1969 the Section arranged a visit to the Satellite Observatory in Rude Skov. The visit took place at 4.30 p.m., just before the passage of a weather satellite. The guests were shown round by staff from the Geophysics Department at the Danish Meteorologisk Institute, Mr. A. Lunback, Mr. T. Rye Nielsen and Mr. M. Jorgensen. The participants witnessed the actual tracking of the satellite during the passage and inspected some of the received weather photographs. There were 69 attendants, 60 of them were IEEE members.

A second meeting was held on 31 October 1969 at the Technical University of Denmark. The event was a talk given by Mr. H. Elberg from the Laboratory of Electromagnetic Field Theory at the Technical University of Denmark. The subject of the talk was 'Computer Animated Films and Drawings'. There were 33 IEEE members and 35 guests.

EGYPT SECTION :

The newly-elected Chairman of the Section is Dr. Mahmoud Abdel-Baki El Koshairy, 22 Ibn Zenki Street, Cairo, Egypt. The membership of the Section increased from 83 members and students in 1967 to 88 members and students in 1968. As part of their membership drive, the Section has organised a library containing the available numbers of Proceedings of IRE and IEEE together with Spectrum and Transactions.

GERMANY (WEST) SECTION :

Recently the election of the officers of the Section for the 1970-1972 term took place by mailing the voting paper. The ballot returns amounted to 73.6 per cent. This is the result of the elections—Chairman: Prof. K. Franz, Ulm; Vice-Chairman: Dr. L. Rohde, Munchen; Secretary: Dr. F. Coers, Frankfurt/M;

Treasurer: Dr. H. Ruchardt, Munchen; Assessors: Dr. H. H. Burghoff, Frankfurt/M, and Dr. E. h. J. Peters, Deisenhofen. A congress of the Deutsche Gesellschaft für Kybernetik (DGK—German Society for Cybernetics) will be held in Berlin from 7 to 10 April 1970. It is the intention of the conference to give a general view on the new results of cybernetic research in Germany and abroad. The following groups of topics are provided: General theory and history of cybernetics—pattern recognition by biological and technical systems (a) visual patterns, (b) acoustical patterns—pattern generating biological and technical systems.

Many important scientists from Germany and from abroad have already accepted invitations to give lectures at this meeting, which will be sponsored by the German Section of IEEE, the Nachrichtentechnische Gesellschaft im VDE (NTG) and the Elektrotechnischer Verein Berlin im VDE. Programmes and forms of application are available about the turn of the year 1969/70 and may be ordered from the Elektrotechnischer Verein Berlin im VDE, Bismarckstrasse 33, D-1 Berlin 12 (F.R. Germany).

NORTH ITALY SECTION :

The problem of a closer liaison between IEEE and the Italian Electrical and Electronics Association (AEI) was examined during a meeting held in the AEI premises in Milan on 1 November. The meeting was attended by Dr. F. K. Willenbrock, IEEE President; Dr. R. Wellinger, Director of Region 8; Professor R. Sartori, AEI President; Professor N. Faletti, AEI General Secretary; C. Redaelli, AEI Central Office Director; Professor G. Catenacci, IEEE North Italy Section Chairman; Professor G. Francini, IEEE North Italy Section Past-Chairman. Several aspects of the possible collaboration were examined, including—secretariat works, relevant to IEEE North Italy Section, per-

formed by the same, e.g., circular letters to the members, updating of membership list, etc.; secretariat works performed by IEEE Headquarters relevant to North Italy Section members, e.g., collection of fees, mailing of IEEE publications, solicitation of unpaid fees, etc.; combined affiliation to IEEE and AEI, closer technical collaboration, e.g., invitation to IEEE members to lecture in Italy, etc. Both Institutions will now examine the financial and organisational aspects of the proposals. It is sincerely hoped that the results will be positive so that a more efficient handling of all these routine matters may follow.

SWEDEN SECTION :

On 30 September 1969 Dr. Nils Bjork, AB Gas Ackumulator (AGA) Røglags Nasby, lectured on 'Thermography', and on 11 November 1969 Dr. Torleiv Orhaug, Research Institute of National Defence, Stockholm, spoke on 'Holography'. Both meetings were held at the Engineering Society of Gothenburg and they were sponsored jointly by the Engineering Society and the Sweden Section of IEEE.

UNITED KINGDOM AND REPUBLIC OF IRELAND SECTION :

The Engineering Writing and Speech Chapter Committee hopes to hold its first Chapter meeting before the end of this session, and to have three or four meetings in London next session. Would anyone interested in organising meetings outside London write to the Section Secretary. Since the last Newsletter, invitations to co-sponsor have been accepted for the Second International Symposium on Computer Graphics (14-16 April 1970); Conference on Television Measuring Techniques (11-14 May 1970); Vacation School on R.F. Electrical Measuring Practice (6-8 September 1970); and Third International Broadcasting Convention (7-11 September 1970).

STUDENT ACTIVITY NEWS

Increasing Services to Student Branches :

During the last two years the number of student members in Region 8 increased considerably and many student branches were formed. To give the students the best advantage from their membership, special attention should be given to the services IEEE can give to the student members. The supply of adequate information plays an important role in this matter. At the Region 8 meeting in Montreux it was decided to have someone in charge of this, and D. C. J. Poortvliet, Afd. Elektrotechniek, Technische Hogeschool Twente, Postbox 217, Enschede, The Netherlands, accepted this responsibility. Parallel to the Newsletter, information notes on a more frequent and wider basis will be sent to the student branches. This may open the possibility to have a rapid means of communication with and between the branches. Also the exchange of information between the IEEE and Eurielic and IAESTE can be of great value for the student members especially with regard to student exchanges, etc. This point will be taken care of in the near future.

A Call for Information :

In order to increase our services to the student member and branches, it is of great importance to supply them with information. This is the reason why D. C. J. Poortvliet calls on all members of the IEEE, especially those within Region 8, to send him information (e.g., on available places to do terms of probation, possibilities to study at other universities, etc.) which might be important for our student members.

Awards Available to Student Members :

Charles LeGeyt Fortescue Fellowship—given to a student for one year of graduate work in electrical engineering at an accredited engineering school. The amount of the Fellowship is \$2,500.

Outstanding Student Branch Member—given to an IEEE student or student associate branch member each year. The award consists of a certificate.

Vincent Bendix Award—awards may be made to individual branches in the amounts up to \$500 to finance a student branch project.

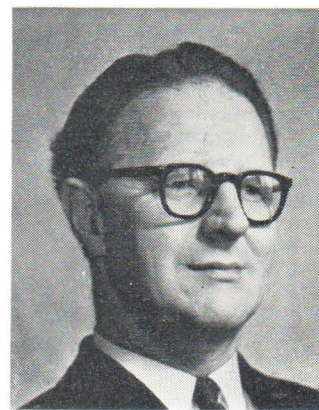
Alessandro Volta Memorial Fund Scholarship—to provide one year of study in electrical engineering in the United States to young Italian electrical engineers of outstanding ability. The recipient must be an Italian citizen, have obtained a degree in electrical engineering or the equivalent in a recognised school in Italy or other country in Europe, and be under 30 years of age.

Prize Papers Awards Available to Student Members :

IEEE Student Prize Paper Award—selected from the winners of the Regional Prize Paper Contests. The first place IEEE



Mr. C. A. Vouga of Zurich, winner of the Region 8 Student Contest and who will be invited to New York next spring.



Mr. A. J. Ellison, Section Student Adviser, U.K. and R.I. Section.

Student Prize Paper Award consists of an award of \$100 and a certificate. The second place Award consists of an award of \$50.

W. D. George Memorial Award—an Award of \$100 cash is made for the best undergraduate student paper relating to instrumentation and measurement which appears in any of the IEEE publications not later than 18 months after the student has received the Bachelor's degree.

Magnetics Group Student Award—Award of \$250 is awarded to undergraduate and graduate students in the general area of magnetics.

Nuclear Science Group Student Award—Group on Nuclear Science has established an annual scholarship Award not to exceed \$200 each. Candidates must be student members of IEEE, must have completed at least one course in nuclear science, and must be recommended by letter from the Chairman of the Department offering the said course.

IEEE Hickernell Award—the Award is for the outstanding student paper in the field of electric power. The Award consists of \$500, a certificate and an expense-paid trip to the meeting at which the Award will be presented.

Student Paper Contests—these Contests are held at Regional level. The Life Member Fund contributes the following prizes for the winners from each Region: \$50 for the winner in each Region and an expense-paid trip to the International Convention; \$25 for the second prize winner in each Region; \$15 for the third prize winner in each Region.