

Region 8 newsletter Editor: W. H. Devenish, The Electrical Research Association,

Cleeve Road, Leatherhead, Surrey, England. (Telephone Leatherhead 4151)

Regional Director:
Dr. Roger P. Wellinger, Port-Roulant 50, 2003 Neuchatel, Switzerland

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INSTITUTE NEWS

Modified Group Membership Plan:

Technical innovations occur constantly and mutely urge assignment to a place in IEEE's technical matrix. If a development crosses the disciplines of several engineering and scientific societies, each of which is equipped to handle only one of its aspects, adherents are quick to form a single new society to mbrace all aspects, thus (1) keeping the eye fixed on Interest 40. 1: (2) avoiding payment of multiple dues to several societies each with coverage broader than is felt needed. To any of the older societies-like IEEE-the phenomenon is that of 'splintering'.

Frequently in the past half-century, electrotechnical features have appeared early and predominantly in innovative art. IEEE's inability to prevent splintering may be a commentary on the past unyielding forms of our present and predecessor

organisations.

By the time of the relatively recent bio-medical-electronics development, IEEE had gained experience of a cross-disciplinary kind of IEEE Group membership to the problem of admitting doctors, surgeons, biologists and other non-IEEE members to equal footing in the IEEE Group on Engineering in Medicine and Biology. This adaptation has been watched with interest and Biology. by other Groups. ExecCom in March approved a similar modification of the Affiliate Plan for the Systems Science and Cybernetics Group. Other Groups may use the new plan with the approval, in each case, of the TAB Chairman and the ExecCom. The modified plan includes the traditional arrangement whereby any IEEE member may voluntarily join the Group upon payment of the prescribed Group fee. The new features of the modified plan provide for full-status Group membership without IEEE membership. Thus, an individual primarily concerned with a discipline outside IEEE's sphere may join a Group that deals with that speciality (e.g., a biologist may join G-EMB), with all Group rights and privileges including voting and elective office.



The Chairman of the Germany (West) Section, Dr. L. Rohde (right), to-gether with the German Minister of Defence, Dr. Gerhard Schroder.

Groups, Sections and Group Chapters:

Lynn C. Holmes, IEEE Elected Vice-President, 1968, was requested by the staff of IGA Group's Transactions to write an article based on his comprehensive knowledge and experience of the relationships of these parts of the structure of IEEE and the following information is extracted from it. He started by

considering the organisational structure for technical activities and found that only a small proportion of the possible 6,000 Group Chapters existed. Over 90 of the 200 Sections have no Group Chapters at all. In general it requires a Section membership of about 200 or more to support even one viable

Group Chapter, but exceptions exist.
There is no such thing as a 'typical' Section. If we divide the total number of IEEE members by the number of Sections, we find that the average Section size is 800 members, but this does not make such a Section a typical one. If it did, we would have only about six typical Sections in IEEE. Another wide variable is the Section membership density in terms of members per unit area. For instance, Boston has nearly 7,000 members, Arkansas has about 200 and Peru has less than 100.

No, a typical Section just does not exist. As pointed out previously, there are many Sections with no Group Chapters and with very little likelihood of establishing any in the near future. This does not mean necessarily that there is little or no interest in Groups or technical activities. Indeed, in the countries outside the USA we find that the ratio of Group memberships to Section members sometimes runs as high as two or three times that in the USA, and yet in these Sections there may not be any need or desire for Group Chapters, or advantage to the Institute in establishing them. Another problem that has sometimes occurred in the Regions outside the USA is that individual Group members travelling abroad often do not observe commonsense protocol in their contacts with their counterparts in the country being visited. It has been pointed out by Dr. R. C. G. Williams, Past Region 8 Director, that in his Region the Section Chairman is regarded as the top IEEE representative in each country. Group members travelling abroad should be urged strongly to work with and through the Section Chairman, especially when making even preliminary contacts for a technical conference. As a courtesy,

be kept well informed. The Officers and Executive Committees of many Sections plan their activities on the basis that Group Chapters are the life blood of the Section. They do all they can to promote Group blood of the Section. They do all they can to promote Group Chapter activities. When Sections have only up to four or five Group Chapters, all Group Chapter Chairmen are also automatically members of the Section Executive Committee. Thus there is a close liaison and good communication between the Group Chapters and the Section. When the number of Group Chapters increases much beyond five, it becomes necessary to delegate Chapter representation on the Executive Committee to one person for three or four Chapters. In such cases, the climate is not nearly as favourable for good communication and often both Chapters and the Section suffer as a result. One large Section has attempted to overcome this difficulty by having a dual Section organisation—one for technical activities and a separate one for all other Section activities. seems to be a good compromise type of organisation for large Sections.

both the Regional Director and Regional Secretary should also

Mr. Holmes ends with the following recommendations for improving the relations between Sections, Groups and Group Chapters:

- Expand the representation of technical activities on the Board of Directors from one (Vice-President-Technical Activities) to five or six.
- For each Regional Committee, provide for a Vice-Chairman
 —Regional Technical Activities—preferably elected by the members at the same time that the Regional Director is elected.
 Consider adding two or three additional technical committee members by appointment.
- Require Section Executive Committees to add a Vice-Chairman-Technical Activities-as an officer of the Section,

Encourage direct communication and permit direct financial assistance from Group Administrative Committees to Group

Consider a completely different organisation for Sections and Group Chapters within the five or six largest metropolitan centres served by the Institute.

Encourage the consolidation of small adjacent Sections, thus providing a better base for Group Chapters and technical activities.

Maintain a strong Section organisation to perform the many functions that only such an organisation can at the local level.

Provide for maximum flexibility and local option at the Section level to satisfy the diverse geographical and technical interests of IEEE members.

It would seem that the proposed Region 8 Convention is one of the first steps towards implementing some of these recommendations. Also Sections might well consider co-operating with Groups by inviting them to co-sponsor technical activities in our Region. The Section Group co-ordinators already appointed between Groups and Sections in Region 8 put our organisation ahead of most other parts of IEEE in achieving the close links which are recommended.

Cable Television:

The TAB Technical Planning Committee, under the Chairmanship of Dr. E. W. Herold, has initiated action for IEEE to participate in the emerging technology of closed circuit or cable television. An Ad Hoc Committee on Cable Television was appointed, chaired by G. Norman Penwell, and with representa-tion from G-B and G-ComTech. Explorations are being made for the preparation of a special issue of one of the IEEE publications, for special mailings to attract new members, and for co-operation in measurement standards.

Oceanography:

More than a dozen IEEE Groups have joined forces in the TAB Oceanography Co-ordinating Committee to bring into focus the many faceted IEEE programmes that pertain to this general area. The IEEE Panama City Section has taken the initiative to organise an IEEE Conference on Ocean Engineering, which will be co-sponsored by the Section and the TAB Oceanography Co-ordinating Committee. This meeting is scheduled for 21-24 September 1970. The Chairman of the Co-ordinating Committee, Mr. Gil Jaffe (Director, National Oceanographic Instrumentation Centre, Washington D.C. 20390), plans to issue an IEEE Newsletter on Oceanography available to any IEEE member upon request. Send items for the Newsletter to Mr. Jaffe at the address shown above. To have your name addded to the Newsletter distribution list write to Miss Pat Corcoran in the TAB Office in New York headquarters.

1970 International Convention:

Mr. W. O. Fleckenstein, Chairman of the 1970 Technical Programme Committee, has announced preliminary plans for 1970. As in the last two years, the programme will consist of invited speakers, either for the formal presentation of papers or for participation in panel discussions. All IEEE Groups have been invited to submit suggestions for these sessions. In addition, an opportunity is again offered for Groups to organise special Symposia for the last two days of the Convention week. For details contact the Secretary of the Technical Programme Committee, Mr. J. H. Schumacher, Jr., in the TAB Office, New York.

Fellow Certificates:

New style Fellow Certificates showing grade colour were issued to Fellows elected in November 1968. (See illustration 'Spectrum,' p. 122, April; description p. 123.) Fellows of prior years who are enamoured of the new certificate's size and appearance may obtain an IEEE re-issue, bearing correct date of first Fellow election in IEEE, AIEE or IRE, but signed by the President and Secretary in office at time of re-issuance. (Orders to Ronnie Lewis, New York headquarters, price \$3.)

Historic Documents of Institute: History Committee's dream and Life Member Fund's mone will result in placement, at Headquarter's office, of a restricted selection of historically-valuable documents and artifacts, pertaining to our Institute, members and industries, under glass, lock and loving supervision.

These memorabilia are now stored in known, but relatively in-accessible, boxes and files. Henceforth they will be on safe display, under custody of a person authorised to take them out for closer examination by interested visitors. (Suggestions, enquiries, to Reed Crone, New York.) N.B. Send no samples.

INTERNATIONAL MEETINGS



Twenty-Second Norwegian Electronic Engineers' Convention.
Organisers, with deputies, from left: K. Endresen, H. Buset, A. Skogvold, K. Melby, A. Rannestad, H. Nymoen, R. Hedemark, C. Brambani, P. Klemp

K. Melby, A. Rannestad, H. Nymoen, R. Heesman, C. Lecutive).
Dr. A. Rannestad, Norwegian Defence Research Establishment, is present Chairman of the Norway Section, and Mr. K. Melby, Norwegian Council for Industrial and Scientific Research, his Deputy, Mr. K. Endresen, Editor-in-Chief, 'Ingeniorforlaget A/S' (Engineering Publishing Co. Ltd., owned by the three primary Associations) was the first Chairman of the Norway Section.

International Symposium on Circuit Theory:

The 1969 IEEE International Symposium on Circuit Theory will be held at Mark Hopkins Hotel, San Francisco, California, on 8-10 December 1969. The annual Symposium features the presentation of original research papers and invited papers by distinguished researchers from universities and industry, and provides a forum for discussion of topics in circuit and system The theme, which is to be continued to the second Symposium, is that of the work at the interface between theory and practice. Of course, high quality papers from throughout the broad spectrum of the field are welcome as always. Contact F. T. Boesch, Bell Telephone Laboratories, for further information.

International Solid-State Circuits Conference:

The 1970 IEEE International Solid-State Circuits Conference will be held on 18-20 February 1970 in Philadelphia, Pennsylvania, on the campus of the University of Pennsylvania and at the Sheraton Hotel.

ISSCC, the leading annual forum for the announcement of important new advancements in the solid-state circuits field, is sponsored by the IEEE Solid-State Circuits Council, the IEEE Philadelphia Section and the University of Pennsylvania.

With the current rapid progress in many areas of solid-state electronics, the 1970 sessions are expected to feature new circuit techniques and new device applications, and the realisa-tion of complete system functions through novel integration

concepts. Areas of application include medical, computer, communications, military, consumer and industrial electronics and their interfaces with optical, acoustical, mechanical and biological systems. Papers, not previously published or presented, describing significant contributions in the following or related areas, are invited: integrated electronics, circuit techniques, memories, new device applications, optoelectronics, microwave electronics. Authors must submit both a 35-word abstract and a 300-500 word summary, appropriate to a 20 minute paper, to reach the Programme Committee Secretary, Mr. L. D. Wechsler, General Electric Company, Electronics Park, Building 3, Syracuse, New York 13201, by 17 October 1969. Overseas papers should reach the Secretary by 10 October to review by overseas committee members. 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.

Conference on Precision Electromagnetic Measurements:

The 1970 Conference on Precision Electromagnetic Measurements will be held on 2-5 June at the Boulder Laboratories of the National Bureau of Standards, Boulder, Colorado. This is the seventh Conference in the biennial series begun in 1958. The aim of the Conference is the advancement of electromagnetic meaurements at levels of precision and accuracy appropriate to national standards laboratories. The traditional fields of d.c., l.f., h.f. and microwave measurements, together with related physical studies, provide the core of the Conference subject-matter. For 1970, emphasis will also be placed on the rapidly developing field of precise measurements at very low temperatures. Methods for automated measurements will also receive special attention. As the past, the Conference encourages international participation. In recognition of the importance of this aspect, a special session will be devoted to the international comparison of standards.

The Conference is sponsored by the Institute for Basic Standards of the National Bureau of Standards, the Group on Instrumentation and Measurement of the Institute of Electrical and Electronics Engineers, and the US Commission 1 of the International Scientific Radio Union. The Bureau of Continuation Education of the University of Colorado, Boulder, Colorado will handle the local arrangements. Original papers in the areas mentioned will be considered and should be submitted to the Chairman of the Technical Programme Committee, Dr. G. M. R. Winkler, US Naval Observatory, Washington, D.C. G. M. R. Winkler, US Naval Observatory, Washington, D.C. 20390. Six copies each of a 500-1,000 word summary and <200 word abstract should be included. The deadline for receipt of abstracts and summaries is 6 February 1970.

REGION 8 NEWS

Regional Directory:

As reported in the last Newsletter, the Regional Committee decided to publish a list of members in Region 8 only every The possibility of issuing amendments in the inter vening years is still being investigated. Meanwhile, the present Newsletter carries an insert list of Region 8 Officers, Committee Chairmen, Contributing Editors and Chapter Chairmen.

Death of Mr. F. S. Barton:



Mr. F. S. Barton.

Frederick Sherbrooke Barton, C.B.E., C.Eng., F.I.E.E., a Past Vice-Presi-dent and Director of the Institute and a Director of Hewlett-Packard Ltd., died in June at the age of 74. had been ill in hospital for some time following a fall at his home.

During the Second World War, Mr. Barton was Director of Radio Engineering, British Air Commission, His work involved Washington D.C. research and liaison with the US Armed Services on all communication and radar interests of the Royal Air Force. After the war he was director of Communications Development at the Ministry of Supply for Air. He was presented with the Medal of Freedom with Silver

Palm in 1947, and was a Commander of the Order of the ritish Empire.

r. Barton gained B.Sc. and M.A. degrees from London and Cambridge Universities respectively. In addtion to being a Fellow of the IEEE, he was a Fellow of both the Institute of Physics and of the former institute of Radio Engineers. He was an active worker for IEEE, having been a signatory of the formation petition and the first secretary of the UK and RI At the time of his death he was a member of several IEEE committees and very effectively represented Region 8 views at Headquarters, for example on the Fellow Committee and the Life Members Committee.

Meetings in the Region:

Symposium on Application of Magnetism in

Bioengineering:

This Symposium, sponsored by IEEE Groups on Magnetics and Engineering in Medicine and Biology, and the Israel Society for Biomedical Engineering, will be held on 9-11 December 1969 at the Weizmann Institute of Science, Rehovot, Israel. the intention of the Symposium to bring together an international group of engineers, physicists, surgeons, cardiovascular specialists and radiologists who are interested in the potential applications of magnetic material and magnetic fields to bio-The major portion of the conference time will engineering. be devoted to discussion. The proceedings will be published. Typical topics are: Magnetic control of catheters, fluids and their surgical uses; Inductive energy coupling through the skin; Electromagnetic flowmeters; magnetic measurements f body electrical activity; Magnet design. Deadlines are—abstracts: 15 August 1969; Papers: 15 November 1969; which should be sent to E. H. Frei, Weizmann Institute of Science.

Joint Conference on Automatic Test Systems:

The Joint Conference on Automatic Test Systems is organised by the Institution of Electronic and Radio Engineers, with the association of the Institution of Mechanical Engineers, the IEE, the Royal Aeronautical Society, the Institution of Production Engineers, and the UK and RI Section of the IEEE, under the aegis of the United Kingdom Automation Council, and will be held at the University of Birmingham on 14-16 April 1970. The Conference will be concerned with the present state of the automatic test field and the probable direction of future developments. Papers will deal with industrial, transport, avia-

tion and military problems that are presented by the employment of automatic test and performance evaluation systems. Papers should describe the progress made and the future prospects in any sphere of automatic testing and performance evaluation including the following: Determination of operational requirements; Language; Programme preparation, proving and up-dating; Measurement, stimuli, response and calculating devices; Switching and connection networks; Interface problems between automatic test system and items under Control, command and communication systems; Operator participation and man machine interfaces; Management aspects and user organisational problems; Use of test results for statistical purposes; The impact of automatic testing on equipment design; Future trends (e.g., relationship between automatic testing and computer aided design, dynamic response analysis methods of testing, wideband noise techniques).

Synopses (200 words) of proposed contributions are invited and should be sent not later than 31 October 1969 to The Secretary, Organising Committee for the Conference on Automatic Test Systems, The Institution of Electronic and Radio Engineers, 8-9 Bedford Square, London, W.C.1. full-length papers of up to 6,000 words, the Committee will welcome shorter contributions in the region of 1,500-2,000 words in length. Papers in final form will be required by 31 December 1969. Further information and registration forms for the Conference will be available from the above address.

International Symposium on Information Theory:

The 1970 International Symposium on Information Theory will be held at the Hotel Huis ter Duin, Noordwijk, The Netherlands, on 15-19 June 1970. The Symposium is sponsored by the Information Theory Group of the IEEE, and Commission VI of the Union Radio Scientifique Internationale.

Topics to be covered include coding theory; detection and estimation; prediction and filtering theory; stochastic processes; pattern recognition, learning and adaptive systems; applica-Papers are invited in these and related fields. As in tions. the past, there will be two kinds of contributed paperspapers of 30 minute duration, and the 'short' papers 'long' of 15 minute duration. The 'long' papers will be accepted on the basis of the complete manuscript. The 'short' papers will be accepted on the basis of a 300 word abstract (no equations should be included). Manuscripts submitted for consideration as 'long' papers that cannot be accommodated in the proas 'long' papers that cannot be accommodated in the programme in this category also will be considered in the 'short' paper category unless the author instructs otherwise. The deadline for the submission of all manuscripts and abstracts is 1 January 1970. Papers may be submitted in English, French or Russian to Dr. P. E. Green, Jr., MIT Lincoln Laboratory, Lexington, Mass. 02173.

The Symposium will be held in Noordwijk, The Netherlands, about 12 miles north of The Hague. General enquiries concerning the Symposium may be sent to either Dr. Green at the above address, or F. L. Stumpers, Philips Research Laboratories, N.V. Philips Gloeilampenfabrieken, Eindhoven, Nether-

First Region 8 Convention:

The proposition to hold the first Region 8 Convention in Switzerland, as reported in the last Newsletter, has been examined further with the Swiss Section. For many reasons, Lausanne turns out to be ideally suited for our purpose and the Convention will, therefore, be held there at a time yet to be decided. One of the numerous advantages brought by the organisation of a Regional Convention is the opportunity offered to the young members to participate actively in our professional Society's life, by working on the various committees needed to ensure the success of a Convention. Keeping this in mind, the Regional Director has appointed our Region 8 secretary, Dr. 'Fritz' Eggiman, as the Chairman of the First Region 8 Convention. A Convention Committee of seven members has been set up.

NEWS OF THE SECTIONS

FRANCE SECTION :

The 1968-1969 activities of the France Section of the IEEE were concluded on 13 May by a Conference given by Dr. N. A. Renzetti, Manager of Tracking and Data Systems at the Jet Propulsion Laboratory, on 'The Advance Communication System for the Mariner '69 Mission.'

At the end of the 1968-1969 season, 530 IEEE members are residing in France, an increase of 138 over the preceding year.

GERMANY (WEST) SECTION:

A Conference on Field Effect Transistors will be held in Freiburg (F.R. Germany) from 17-19 March 1970. Approximately 20 invited papers will be presented in the sphere of physics, technology, attributes and applications of Field Effect Transistors. The Conference will be sponsored by German Section IEEE Nachrichtentechnische Gesellschaft im VDE (NTG) Elektrotechnischer Verein Südbaden im VDE, Freiburg. Those interested should write for details to: H. H. Burghoff, 6 Frankfurt/Main 70 (F.R. Germany), Stresemann Allee 21, VDE-Haus.

Two preliminary meetings have been held in Beirut with a view to the promotion of IEEE activity and the formation of a Section. Members interested are asked to get in touch with Max R. Zaccar, B.P. 4351, Beirut, who suspects that the addresses given for some of the members in the Lebanon may be incorrect. If you know of any of these errors please let him know.

NORTH ITALY SECTION :



Giorgio an of Catenacci, Chairman of Italy Section.

On 30 April the General Assembly of the Section was held and the officers were elected for the next two years. On this occasion the certificate for his election to the grade of Fellow of the IEEE was presented to Professor Catenacci. newly-elected Chairman thanked the out-going Officers for the work they had done in order to improve the activity of the Section.

During the Executive Committee Meeting held on 10 July, Professor Catenacci presented to Professor Francini an IEEE certificate for his efforts in expanding the membership and the activity of the Section. Following the discussion during the Region 8 Committee meeting held

in Montreux, contacts between the President of the AEI (Italian Electrotechnical Association) and the Chairman of the Section were established in order to examine the possibility of collaboration. As a first step the AEI is considering the possibility of doing all the secretarial work for the North Italy Section. Other types of collaboration will be considered in the near future.

The North Italy Section sponsored an international Symposium on Nuclear Electronics at Stresa, Italy, on 6-8 May 1969, which was attended by the Euratom Joint Nuclear Research Centre of Ispra and was entitled 'Ispra Nuclear Electronics Symposium.' The co-sponsors were CNR (Consiglio Nazionale delle Ricerche), CNEN (Comitato Nazionale dell'Energia Nucleare), AEI (Associazione Elettrotechnica ed Elettronica Italiana), SIF (Societa Italiana di Fisica). Attendance was about 350 participants from 25 countries. Six general sessions were held during the first three days on timing (8 papers), spectrometry (9 papers), miscellaneous techniques (9 papers), computer on-line and data reduction in nuclear experiments (12 papers) and statistics and mathematical methods (8 papers). A special session was devoted to modular instrumentation with particular evidence to the CAMAC Standard (5 papers) on 9 May. On the same day a Panel Discussion on Future Trends in Physical Measurements and Nuclear Instrumentation was held at Ispra for a restricted number of invited persons. The Proceedings of the Symposium have been published by Euratom (EUR 4289 e). A report of the Panel Discussion is also being published by Euratom; it includes five papers and a report of the discussion by the Scientific Secretary. Eight outstanding papers presented at the Symposium will be reproduced in 'IEEE Transactions on Nuclear Science,' October issue.

NORWAY SECTION:

In spite of an increasing number of other conferences, the Norwegian Electronic Engineers' Annual Convention has an annual growth of 9 per cent over 21 years. The Twenty-Second Convention, in Sandefjord, South Norway, had 434 participants for a total of 59 lectures, highlighting the diversified frontline activities in the rapid expansion of electronics research and industry in Norway. Central areas treated were electronics for occanography, computer aided design; numerical electronics for oceanography; computer-aided design; numerical control for ship-building; the automobile industry and micro-circuit production; new basic methods in filtering; a new taperecorder for laboratory use; utilisation of bulk effects in semiconductors, etc.

(Did you know that Norway is launching the world's most automated oceanographic vessel, or that Norway is an exporter of computer software?)

The Electronics Convention is the main forum for Norwegian high-level electronics, and is sponsored by the Norwegian Society of Professional Engineers, the Polytechnic Society, the Association of Norwegian Engineers (NITO) and—for the first time—also the IEEE Norway Section. The Convention is organised by a fully autonomous committee of four members, each representing one of the sponsoring Associations.

UNITED KINGDOM AND REPUBLIC OF IRELAND SECTION:

The Principal Inspector of Taxes of the Inland Revenue horizonfirmed that 'tax relief is available in respect of additional subscriptions paid for membership of professional groups and publications.' Relief can thus be claimed for these two items as well as for Institute membership dues.

Mr. A. J. Ellison, of Queen Mary College, London, has been appointed Section Student Counsellor in succession to Professor

Since the last Newsletter was published, invitations to cosponsor have been accepted for Conferences on Automatic Test Systems (14-16 April 1970) and Gas Discharges (15-18 September 1970).

The Section officers were delighted to entertain Don Fink, Bill Keves and Dr. Tompkins of Headquarters to dinner on 18 June.

STUDENT ACTIVITY NEWS

THIRD REGION 8 STUDENT PAPER CONTEST:
The Third Student Paper Contest was held in Montreux, Switzerland, on 23 May 1969. The excellent local organisation was by Dr. De Mey, Secretary of the Switzerland Section, and Dr. Eggimann, Region 8 Secretary.

There were five contestants: Lennart Almstrom (Goteborg, Sweden), Kenneth Gray (Woolwich, England), Jorma Nieminen (Helsinki, Finland), Henrik van Brussel (Louvain, Belgium), and Claude Vouga (Zurich, Switzerland).

The first prize was won by C. A. Vouga, from the Federal Institute of Technology at Zurich, for his paper on 'Les Conditions de Stabilité des Systemes Echantillonnes Obtenues Algebriquement a l'aide d'un Ordinateur.' The IEEE will pay for a trip by Mr. Vouga to the New York Convention in March 1970. He also won \$50.00 and his paper is competing in the final contest in New York.

The second prize was won by L. Almstrom (in co-operation with R. Bertilsson and R. Bergstrand) from Chalmers Institute of Technology, for a paper on 'Theory and Construction of a Binary to Ternary Coder.' He won \$25.00 and his paper is also competing in the final contest in New York.

The third prize was awarded to H. van Brussel (in co-operation with R. Thore), from the Catholic University of Louvain, for a paper on 'Stability and Design Criteria for Action Linear Two-Ports with Generalised Scattering Parameters.' He won \$15.00. He won \$15.00. All contestants, and especially the three winners, are congratulated on their performance.

IEEE CONVENTION, NEW YORK, MARCH 1969:

As the Region 8 winner for 1968, Lars Odman, from the Chalmers Institute of Technology, Sweden, was invited to the IEEE Convention held in March 1969. Mr. Odman won the Institute Student Paper Contest Prize for his paper entitled Analog Computation of Surface Field at P.M. Junctions." picture shows Mr. Odman receiving his prize.

ACTIVITY REPORTS FROM STUDENT BRANCHES IN REGION 8 FOR THE ACADEMIC YEAR 1968-1969:

Reports were received from the Student Branches in Gothen-It would take up too much room to give here a sumburg, Louvain, Helsinki, Madrid, Milan, Rome, Stockholm and mary of all the student activities in those Branches, but this will probably be given in the next Newsletter. It is, however, encouraging for all of us to see that this year the volume of activities and also their quality showed a definite increase. Furthermore, the average student membership continues to increase.



IEEE President Willenbrock presenting the Second Student Paper Contest Prize to L. Odman and congratulating him on winning the 1968 First Prize Award. Dr. George Sinclair, Chairman of the Awards Board, is also shown in the photograph.

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS **REGION 8**

Regional Committee

Chairman (Director): Dr. Roger P. Wellinger, Port-Roulant 50, 2003 Neuchatel, Switzerland.

Vice-Chairman (Immediate Past Director):

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Field Plot, The Flower Walk, Guildford, Surrey, England.

Secretary / Treasurer:

Dr. Fritz Eggimann.

Rauchackerstr. 27, 8102 Oberengstr., Switzerland.

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Secretary/Treasurer

Associate Professor P. E. Gudmandsen,

Laboratory of Electromagnetic Theory, Technical University of Denmark, DK-2800, Lyngby, Denmark.

Assistant Secretary / Treasurer:

Mr. O. Ring.

DENMARK SECTION (continued)

Contributing Editor:

Mr. T. K. Tawfig,

Electronics Laboratory, Technical University of Denmark, DK-2800, Lyngby, Denmark.

EGYPT SECTION

Chairman and Contributing Editor:

Dr. M. A. B. El-Koshairy, 22 Ibn Zenki Street, Zamalek, Cairo, U.A.R.

Vice-Chairmen .

Mr. El-Gaerhi El Kashlan.

Mr. A.-L. I. Ahmed.

Secretary / Treasurer:

Mr. A. M. A. Elmoety, 4 Emarah Elyamani Street, Zamalek, Cairo, U.A.R.

FRANCE SECTION

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Mr. G. Lehmann,

Directeur Scientifique, C.G.E., 54 rue la Boetie, Paris 8, France.

Vice-Chairman:

Mr. J. Voge.

Vice-Chairman and Contributing Editor:

Mr. R. Baudry, 26 rue de l'Yvette, Paris 16, France.

Secretary/Treasurer:

Mr. J. J. Damlamian,

3 Avenue de la Republique, 92-Issy les Moulineaux, France. G-C Chapter Chairman:

Mr. P. Dreyfus.

GERMANY (WEST) SECTION

Chairman and Contributing Editor:

Dr. L. Rohde,

Rhode & Schwarz, Muhldorfstrasse 15, 8 Munich 8, F.R. Germany.

Vice-Chairman

Professor K. O. Franz.

Secretary: Dr. H. H. Burghoff,

D-6 Frankfurt (M) 70, Stresemann Allee 21, VDE-Haus, F.R. Germany.

Treasurer .

Dr. J. Berghammer.

Assessor: Dr. P. Jacottet.

ISRAEL SECTION

Chairman .

Mr. G. Melzer,

Tadiran, Derech Hashalom 3, Tel Aviv, Israel.

Secretary/Treasurer and Contributing Editor:

Mr. A. L. Eichenbaum.
Elta Electronics Industries Ltd., P.O. Box 127, Lod Airport, Israel.

Past Chairman:

Mr. J. Lavi.

Past Secretary/Treasurer:

Mr. M. Shavit.

Professor I. Cederbaum.

MIDDLE AND SOUTH ITALY SECTION

Professor G. Barzilai,

University of Rome, Electronics Department, Via Eudossiana 18, 0C184 Rome, Italy.

Secretary/Treasurer:
Professor V. Cimagalli,
University of Rome, Electronics Department, Via Eudossiana 18, 00184 Rome, Italy.

Contributing Editor:

Mr. D. Solimini,

University of Rome, Electronics Department, Via Eudossiana 18, 00184 Rome, Italy.

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