

IEEE Region 8 newsletter



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
INCORPORATED

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REPORT FROM THE REGIONAL DIRECTOR



Increase in Dues

Your Director represented the Region at the Board of Directors meetings in April and September. At the first meeting an increase in dues was rejected by a relatively small majority, the main reason being that the Executive Committee and the Treasurer thought that even without an increase in dues for 1975 a positive balance of 150,000 dollars could be reached. In the opinion of the majority this would make it possible to wait for another year before taking a decision, all the more as the suggested use of the

increased income would be for services of doubtful value, as e.g. the possibility to phone the computer for changes of address. However, several of us thought it rather unlikely that a target of a positive balance of this amount, without deterioration of services, could be met under the present inflationary conditions.

As a matter of fact the income of the Institute from advertisements etc. took a steep downward turn, and though the expenses were kept within the budget, in September it looked likely that no gain or a small loss would be the result for 1975, and a rather large loss would be incurred in 1976. Under these circumstances, the Board of Directors agreed to reconsider its earlier decision. Moreover, attention had been drawn to the fact that a change in dues would need an amendment to the Bylaws, which has to pass by a two-thirds majority. Anyway, the increase in dues from 30 to 35 dollars for non US engineers and from 35 to 45 dollars for US engineers was adopted by a large majority (19 to 4). Members will realize that no Director is very fond of such measures, but the circumstances simply forced our hands.

The extra ten dollars paid by US members are for professional purposes, pensions, lobbying for good laws in Washington DC etc. In this case the US Directors are most likely to be well informed on the wisdom of the expenditure. The sums involved are quite large, and some results may take several years.

In the Regional Activities Board it was stressed that many active Sections cannot develop with the present subsidy system, and it was hoped that at least one dollar of the five-dollar increase could come back directly to Region or Section. On the other hand the Technical Activities Board, representing Groups and Societies, stressed that if a reasonable part of the increased income did not go in their direction, an increase in dues would be necessary. The quality of the publications is one of the more attractive parts of the IEEE service, especially for our Region.

Election

Mr. Dillard was elected President for 1976 with 33,000 votes against

Mr. Feerst 19,000 votes. This is a good result from the point of view of Region 8, as the second candidate was opposed to all international activities of IEEE and would like to stress its US character. However, that this candidate got 19,000 votes seems to show that many engineers in the United States are not satisfied with the way the Institute is going. In bad times it is easy to criticize a Board, if the economical and social situation of the engineer is not as good as might be hoped for. What is astonishing in my opinion is that more than one out of every three engineers voting, used their vote the way they did. Only one third of the membership voted. We may suppose that those two thirds not voting were not interested in a change.

Regional Meeting Region 8 in Zurich, 31 October and 1 November 1975

Although the Airport of Zurich was closed by fog in the morning of 31 October, the Regional Meeting in the Eidgen. Techn. Hochschule started reasonably on-time. The Chairman welcomed Vice-President Saunders, Chairman of the Regional Activities Board, and Mr. Stewart, Director Membership Services, representing IEEE Headquarters. Prof. Gardiol spoke a word of welcome on behalf of the Switzerland Section.

The Director gave a review of the Board of Directors meetings results, e.g. the dues increase (see elsewhere). He also reported on the successful Symposia held under the auspices of IEEE Region 8, such as the Montreux Symposium on Electromagnetic Compatibility (450 participants) and the World Telecommunications Forum Technical Symposium in Geneva (1,200 participants).

With regard to Eurocon 77 the following Section Chairmen have accepted: Mr. Favez (France) Communications and Power Engineering, Prof. Dadda (Italy) Communications and Computers (also micro-processor and other technological devices), Mr Bray (UK) New Developments in Communications, Prof. Magnusson (Sweden) Signal Processing and Communications for Medical Purposes, Dr. Rao (India) Communications and the Developing Countries. The Director and Professor Carassa are laying the last hand to a Call for Papers, expected in January 1976. Each Section of the Symposium will have a programme committee of limited size, and it would be helpful if IEEE Section Chairmen sent in the names of possible corresponding members who could help with the stimulation of contributions.

The Secretary-Treasurer presented his Report. We will probably stay within the budget for this year.

Dr. Rannestad reported on the Membership Development Committee. He lacked support from the Sections. For want of a good successor he had agreed to continue for one year, but he hoped that in the meantime Section Chairmen would look for better support of Membership Development in their Sections, so that next year a successor would be available. For Section Chairmen, who thought that an advertisement in the engineering society journal of their country would be accepted and was likely to get results, he noted that a budget for this purpose was available.

Dr. Wellinger reported on the Awards Board and the Fellowship Committee. He stressed the necessity for well-founded nominations, an opinion shared by Prof. Saunders. As the Zworykin Award (for television) could not be given at this time for lack of suitable candidates, it is clear that there are opportunities being missed.

The Regional Committee expressed its regret that the Distinguished Visitors Programme had fallen a victim of budgetary considerations.

PUBLISHED QUARTERLY		JAN.	APRIL	JULY	OCTOBER
DEADLINES	News to Editor	Dec. 7	Mar. 7	June 7	Sept. 7
	Advertisements to County Secretarial Services	Dec. 15	Mar. 15	June 15	Sept. 15
	Delivery inserts to County Secretarial Services	Dec. 22	Mar. 22	June 22	Sept. 22

Dr. Schulke announced that such visitors, when communicating with Headquarters, will be given the addresses of Section Chairmen on or near their road of travel. The Director doubted that this would do much good. Under the former programme Section Chairmen could take the initiative but under the new conditions a lot more would depend on the visitor. One could hardly expect visitors to go to so much trouble. Several Chairmen had profited from the programme and regretted its discontinuation. It was agreed that the Director would try to get the decision reconsidered at the next RAB and BOD meetings.

With regard to short courses, Prof. Saunders mentioned that although certain directives were given to pay for the costs, IEEE Headquarters were willing to take the risk, if a well prepared course ran into financial difficulties, because of lack of interest. Moreover, Sections organizing such a course could expect a large part of the profit. (Region VI got 3,400 dollars from a few successful courses). The Benelux Section expressed interest in the microwave communication systems course. Prof. Gardiol enquired whether IEEE movies were available in Region 8. Mr. Stewart will ask Mr. Kinn.

Prof. Kleen and Prof. Saunders had discussed with the VDE management, the problems with regard to a Communications Chapter in Germany. A satisfactory solution had been found. In order to prevent such difficulties in the future, a new agreement between IEEE and VDE will be set up. (The difficulties arose because the 1965 agreement asked for VDE approval of nearly every IEEE action in the Federal Republic, despite VDE managing the IEEE Secretariat).

Mr. Stewart gave a survey of the possibilities of paying in local money at specific banks in certain countries. Some of these facilities had been removed because the bank was no longer interested or because the bank did not send the necessary information to IEEE. The Director mentioned the possibility of having a national Committee member as a central dues office. This would have the advantage that it is noted in time that a member is running into arrears. The relatively high percentage of members in dues arrears, who receive all publications for four months free, is a major source of annoyance. **In the opinion of the Director all members who have not resigned in writing before 1 November are morally bound to pay their dues for the next year.** Many other national organizations have such a ruling, although it is seldom enforced by law. The Iran Section will try to have the dues cashed by the Section Treasurer. It is realized that for large Sections some work is involved. In view of the relatively small dues, Student Branches also should send their dues together, but see that all the necessary information goes to IEEE Headquarters.

The Newsletter had at least been able to compensate for cost increases by advertisements and inserts. Prof. Williams was sure that no other publication reached such a high level international audience at such a low cost per reader, and he asked members to bring this opportunity to the notice of advertisers in their countries. Also, inserts need not be sent to the whole membership but can be limited to one country or to a group of countries. This service is frequently used by UKRI for Section announcements and is of course available to all Sections.

The Sections represented gave a survey of the meetings held since the last Regional Committees convened. The Israel Convention with over a hundred papers in three days, and a nice book of contributions, drew 1,500 participants. Another interesting event was the joint meeting of Canadian and Polish scientists in a Warsaw IEEE meeting, possibly to be followed by an analogous event in Canada next year.

In view of the cost, central locations are preferred for the Regional Committee meeting. It was suggested that once in two years a meeting should be held in a non-central section. All depends on the financial possibilities. The next meeting is foreseen for 3 and 4 April 1976, meeting place to be announced. The Director drew attention to the fact that at this meeting a nomination for a new Director (preferably two or three candidates) will have to be agreed upon. Sections are asked to submit names of candidates to the Secretary-Treasurer, Dr. de Vrijer, Philips Research Laboratories, Eindhoven, The Netherlands, before 15 March. As customary, a panel of former Directors will form a nomination committee.

Austria

The Director has sent a letter to all Austrian members to advocate the foundation of an Austrian IEEE Section. It is hoped that there is sufficient enthusiasm among our Austrian members to achieve this goal. It would certainly increase our present membership in this country (46) and make it possible for IEEE to do more for those members, since part of the membership fees goes directly to the Section.

1976 Microwave Power Symposium

International Microwave Power Institute, 28-30 July 1976. This meeting will be held at the Catholic University of Louvain in Belgium. IEEE Region 8 is a co-sponsor. Dr. B. Schiffmann, President IMPI, Prof. van Bladel, Univ. of Ghent, Prof. van der Vorst, Univ. of Louvain, Prof. Renneboog, Univ. of Brussels, and Prof. Gardiol, E.P.F. Lausanne, are members of the organizing committee with Prof. P. J. Luybaert from whom more information can be obtained at the following address: Kardinaal Mercierlaan 54, B3030 Heverlee—Belgium. M.W. heating systems; M.W. power generation; Biological effects; Use of microwaves in the food industry; are among the subjects to be treated.

Christoffel Columbus Award

Your Director had the pleasure to participate in the Nomination Committee for the Christoffel Columbus Award of the City of Genova, Italy. It is always given in the area of communications, and this year especially to theoretical contributions. From the two names proposed the city selected Andrew Viterbi, Los Angeles, Fellow of IEEE. The official presentation took place in Genova on 9 October 1975.

No Benelux Section Split

The Benelux Section held an enquiry among its Belgian members in order to find out whether a separate Belgian Section was preferred to the present arrangement. The answer was negative. The Section Committee will now try to bring more of its activities to Belgium.

EUROCON 77—VENICE 3-6 MAY 1977

Announcement and Call for Papers

EUROCON 77, the European Conference on Electrotechnics, will be held in Venice on 3 through 6 May 1977 and papers are now invited. The main theme of the Conference will be Communications, covered under four main headings; communications in large power systems; new developments in communications; communications and computers; communications and signal processing in medicine. There will be an additional special one-day session on communications in developing countries.

The timetable for authors is: 300/500-word abstracts, in English, to arrive by 1 June 1976. Authors whose papers are accepted will be notified by 31 July 1976, and requested to submit a two-page summary for printing in the Conference Digest by 30 December 1976. The full text of papers, which will be made available to those attending EUROCON 77, is required by 31 March 1977.

Twenty minutes will be allowed for the verbal presentation of each paper, to allow adequate time for discussion. Before submitting abstracts, authors should obtain instructions on the way in which they are to be presented. These instructions, together with information on the detailed programme and on Conference registration, are available from the EUROCON 77 Office, c/o AEI, Viale Monza 259, 20126 Milan, Italy, to which abstracts, summaries, and completed papers should also be sent.

EUROCON 77 is being organised by Region 8 and the Convention of National Societies of Electrical Engineers of Western Europe (EUREL).



Fondazione Giorgio Cini, Venice, where Eurocon 77 will be held.

Implementation of the programme and arrangements is in the hands of the Associazione Elettrotecnica ed Elettronica Italiana (AEI) and the North Italy Section and Middle and South Italy Section of Region 8. EUROCON 77 will be one of the most important meetings in 1977 for

electrical and electronics engineers. The Regional Director hopes that all members of the IEEE will give their utmost support by making it known to their colleagues, attending the Conference themselves, and submitting papers.

INSTITUTE NEWS

Nikola Tesla Award

The Nikola Tesla Award has been established to recognize outstanding contributors to the field of generation and utilization of electric power. The award will consist of a plaque and \$1,000. The first presentation is scheduled for the 1976 Winter Meeting of the IEEE Power Engineering Society.

Those wishing to submit nominations may obtain the appropriate forms by request to the Technical Services Department at IEEE Headquarters or Hal Gold, Southern Calif. Edison Co., P.O. Box 800, Rosemead, Ca 91770. Forms should be completed so that significance of the candidate's accomplishments is apparent. Two supporting letters are also required. These letters should be from members who are well acquainted with the record and contributions of the candidate and should concentrate upon the qualifications pertinent to the award. Nominations, together with supporting letters, must be submitted by the fall of each year and nominations, or requests for more information, should be sent to the Chairman of the Awards Committee, S. H. Gold, at the address given above.

1976 USSR Popov Society Congress

Delegation from IEEE is now being formed as part of the IEEE-Popov

Society Annual exchange. Topics for the meeting will be focused on all facets of medical electronics and all facets of instrumentation. Send your nominations for delegates to your Group/Society presidents as soon as possible. Selections were to have been finalized in December 1975. (See October Spectrum. For further information: J. M. Kinn, Secretary, or Audrey van Dort, Administrative Assistant of the Subcommittee, HQ).

Candidates for IEEE Committee Service

Candidates are solicited for IEEE Committee Activities from individual members and all IEEE organizational units for the 1977 standing committees and boards.

Composition and responsibilities of the committees and boards are described in the IEEE Bylaws. The general qualifications for committee and board service are the same as those in any other position of leadership responsibility and trust: competence, experience, willingness to take on the task, availability of time to participate, enthusiasm and vigour.

April 1 1976 is the deadline date for receipt of recommendations. Forms to be used in submitting recommendations may be obtained by writing to the Secretary of the Nominations and Appointments Committee at IEEE, 345 East 47th Street, NY, NY 10017.

REGION 8 NEWS

New Fellows Elected in 1976

Our congratulations to the following members of Region 8 who have been honoured by elevation to Fellow.

Egypt	Essam Nasser	For contributions to the field of high-voltage engineering education and to the understanding of contaminated insulator breakdown.
France	Elie Roubine	For contributions in teaching and research in the field of electromagnetic theory, communication theory, and applied mathematics.
Germany (West)	Karl J. Schmidt-Tiedemann	For contributions in management of industrial research.
Israel	David Treves	For contributions to magneto-optic memories, and for leadership in the field of applied physics.
North Italy	Giuseppe Biorci	For contributions to network theory.
	Mario Sforzini	For contributions to the development of EHV and UHV transmission.
United Kingdom and Republic of Ireland	Frank A. Benson	For advances in knowledge of guided waves and ionized gases.
	Robert J. Clayton	For contributions to airborne microwave system design.
	Andrew R. Cooper	For contributions to high-voltage network transmission.
	Peter J. Lawrenson	For contribution to electromagnetic field analysis and to the theory and design of electrical machines.
	Sean O. Scanlan	For contributions to distributed circuit theory, and for leadership in engineering education.

URSI Plenary Assembly, Lima, Peru, August 1975

The International Union of Radio Science held its 18th Plenary Assembly in Lima, Peru. The programme had business and scientific sessions of the eight commissions as well as three open symposia, on Ionospheric wave propagation, on Non-stationary signal analysis and on Communications and the noise environment.

The Executive Council discussed and approved a plan to make URSI more telecommunication science oriented (rather than geophysics oriented). The URSI will now consist of nine commissions: Standards and measurements; Fields and waves; Systems and circuit; Ionospheric wave propagation; Waves in plasmas; Waves in non-ionized media; Radio electronics; Radio astronomy; Communications and the noise environment.

The vice-presidents Migulin (USSR) and Christiansen (Australia) were re-elected. Vogt (France) was elected president, and Stumpers (Netherlands) and Gordon (USA) were elected new vice-presidents. All three last mentioned functionaries happen to be Fellows of IEEE, so that a good co-operation with IEEE Societies and Groups may be hoped for. Migulin is in charge of membership development (National academies are eligible for membership), Gordon is Treasurer, and Stumpers is in charge of co-ordination (for symposia and assemblies). Minnis was re-elected Secretary-General but he will spend only half his time on it. 23 countries were represented (Bulgaria became a new member). Nearly 400 participants attended the symposia and commission meetings. Dr. Giesecke and his co-workers in the organization committee earned the thanks of chairman and assembly. The next Plenary Assembly is foreseen for Helsinki in 1978.

Mervin J. Kelly Award Presented

Harold M. Barlow was honoured by the IEEE at the first European conference on Optical Fibre Communication held in London, England. He was presented with the Mervin J. Kelly Award, an IEEE Field Award which recognizes outstanding contributions to the advancement of the art of telecommunications.

The presentation (on 16 September) was made to Mr. Barlow "for outstanding work in the measurement and properties of radio frequency waves, and their application to telecommunications." The Mervin J. Kelly Award, established in 1959 through agreement between IEEE and Bell Telephone Laboratories, consists of a bronze medal, a certificate, and one thousand dollars.

Originally a student at University College, London, where he received his B.Sc. (Eng.) and Ph.D degrees, he joined the Department of Electrical Engineering there as a lecturer in 1927, rising to become, after

war service from 1939 to 1945, Pender Professor of Electrical Engineering in the University of London. He held this appointment until retirement in 1967, when he was granted the title of Emeritus Professor. Mr. Barlow has been concerned throughout his career with the study and development of telecommunications and, in particular, with the use of microwaves. On his return to University College in 1945, he applied himself to the problems involved in guided-wave propagation, concentrating in particular on the development of the circular metallic

waveguide propagating the TE mode. He also did pioneering work on guided surface waves and made significant innovations in the techniques of power measurements.

Elected a Fellow of the Royal Society in 1961, Harold Barlow has received many other professional honours, both national and international. He has some notable publications to his credit, including a book on microwaves and waveguides, two other books of which he is a joint author, and over 100 research papers.

MEETINGS IN REGION 8

International Zurich Seminar on Digital Communications

The Call for Papers for this conference included in the April issue has been very successful in that an interesting programme was drafted at a recent meeting of the organizing committee. The printed version of the programme for 9-11 March 1976, including registration forms, is now available from: 1976 International Zurich Seminar Technisches Zentrum PTT/V907, CH-3000 Bern 29, Switzerland. Telephone: 41-31-62 38 72; Telex: 3 20 61 vptt ch.

1976 IEEE International Symposium on Circuits and Systems

The IEEE International Symposium on Circuits and Systems is the annual international conference sponsored by the IEEE Circuits and Systems Society. It will be held in Munich 27-29 April 1976 and is co-sponsored by the German Section of IEEE Region 8, with the participation of the Nachrichtentechnische Gesellschaft (NTG).

The symposium will be devoted to all aspects of the theory and design of circuits and systems in the widening field of electrical engineering science. Particular emphasis will be placed on links between theory and practice, novel approaches to analysis and synthesis, circuits involving newly emerging technologies, and computer oriented methods for design, layout, and manufacturing.

Authors are invited to submit papers suitable for a 20 minute presentation. The format of the papers should be in accordance with the "Information for Authors" which are printed on the back cover of each issue of the IEEE Transactions on Circuits and Systems. The preferred language for the conference is English, but papers in German will also be accepted.

Further information from: Wilhelm Schussler, University Erlangen—Nürnberg, Cauerstr. 7, D 8520 Erlangen. Tel: (09131) 857100, Telex: 629755.

Summer School on Electromagnetics and Antennas

The Benelux Section of IEEE in co-operation with Eindhoven University of Technology, Netherlands, plans to offer a summer school on electromagnetics and antennas at Eindhoven University from August 30—September 3 1976. The programme will cover the following topics:—

1. "Low frequency asymptotic techniques" by Prof. J. van Bladel, University of Ghent, Belgium.
2. "Feeds for Microwave reflector antennas" by Prof. P. J. B. Clarricoats, Queen Mary College, London.
3. "Numerical approaches to electromagnetic problems" by Prof. J. B. Davies, University College, London.
4. "Ray optics" by Prof. L. Felsen, Polytechnic Institute of New York, USA.
5. "Engineering applications of the geometrical theory of diffraction" by Prof. Henning Bach, Technical University of Denmark, Lyngby.
6. "General considerations on the integral equation formulation of diffraction problems" by Prof. A. T. de Hoop, Delft University of Technology, Netherlands.
7. "Some computational aspects of numerical and asymptotic techniques for antennas and scattering problems" by Prof. Raj Mittra, University of Illinois, USA.
8. "Optical waveguides" by Prof. H. G. Unger, Technical University of Braunschweig, West Germany.

For further information contact Dr. Eduard J. Maanders, Eindhoven University of Technology, Electrical Eng. Dept., Eindhoven, Netherlands. Tel: (040) 473427.

Symposium on Micro-Architecture

The symposium is to be held at the Giorgio Cini foundation on the Isle of San Giorgio Maggiore Venice, 12-14 October 1976. Organized by: EUROMICRO in co-operation with ECI (AFCET, AICA, BCS, GI, NTG, NRMG), European Research Office and the IEEE Computer Society. The objective is to provide a high-level forum for discussion on micro-programming and microprocessor systems. Papers covering new concepts, or recent developments are solicited. Prospective authors and participants are invited to contact the organizing committee. Four double-spaced copies of the manuscript (20 pages max.) and a 200 word abstract should be received by the Programme Chairman by

15 March 1976. The abstract to include the author's name, complete mailing address and telephone number. Authors will be notified of acceptance by 7 June. The final paper will be due on 28 June. Proceedings will be available at the symposium. Authors are encouraged to submit papers as early as 5 January, as it will result in early notification and allows due time for modifications.

An industrial exhibition will be held on the symposium site. In addition industrial sessions consisting of short notes and equipment demonstrations will be organized. Exhibitors and authors should contact the Industrial Programme Chairman rapidly.

Members of the Programme Committee come from seventeen countries throughout the world and the Organizing Committee is:—

Programme Chairman: Jan Wilmink, Twente Univ. of Technology, P.O. Box 217, Enschede 7801, Netherlands.

Organizing Chairperson: Mariagiovanna Sami, Politecnico Istituto di Elettr., Piazza Leonardo da Vinci 32, 20133 Milano, Italy.

Conference Chairman: Rodnay Zaks, Univ. de Compiègne, B.P. 233, 60206 Compiègne, France.

Industrial Chairman: Reiner Hartenstein, Univ. Karlsruhe, Institut für Informatik IV, Postfach 6380, 75 Karlsruhe 1, Germany.

Finance Chairman: Pierre le Beux, Univ. de Compiègne, B.P. 233, 60206 Compiègne, France.

Electronics—Micromechanics Interactions

This international conference is organized within the framework of the "Journées d'électronique et de microtechnique 1976" of the Swiss Institute of Technology in Lausanne—19-21 October 1976. Its aim is the study of interdisciplinary problems that arise from the design of products or equipment that have both electronic and mechanical components, as may be found in office machines, computer peripherals, watchmaking products, servomechanism, measuring instruments, etc.

The first day will be devoted to the presentation of general papers, the subsequent days to the study of specific cases.

Original contributions of a didactic or specialized nature are invited on such subjects as: comparison of mechanical and electronic functions in information processing; electronic specifications (requirements) for the optimum utilization of actuators such as step motors, electromagnets, etc.; new developments in the field of sensors; influence of microprocessors on systems design in micromechanics.

Summaries of 300-500 words should be submitted not later than 15 April 1976 to: Secrétariat des Journées d'électronique, Ch. de Bellerive 16, CH-1007 Lausanne, Switzerland.

International Conference on The Future of Aircraft All-Weather Operations

Organized by the Electronics Division of the Institute of Electrical Engineers in association with the Institute of Electrical and Electronics Engineers (United Kingdom and Republic of Ireland Section), the Institute of Mathematics and its Applications, the Institution of Electronic and Radio Engineers, the Royal Aeronautical Society and the Royal Institute of Navigation in London, 22-25 November 1976.

The conference will examine the operational, technical and economic aspects of all-weather aircraft operation in all phases of flight and cover the following: Operational Requirements; Guidance Navigation and Surveillance Techniques; Current Guidance Navigation and Surveillance Systems; Alternative Guidance Navigation and Surveillance Systems; Siting and Integrity; Weather/Climate; Choice of a System-Value Analysis.

Those intending to offer contributions should have submitted a synopsis (approximately 250 words) to the Conference Department by 8 December 1975. The synopsis should include the main points of the paper and, where possible, indicate where the emphasis will be placed. The authors whose synopses are selected will be requested to provide full typescripts of not more than 3,200 words of text or correspondingly less if illustrations are included, for assessment by 9 June 1976.

Registration forms and further details from IEE Conference Department, Savoy Place, London, WC2R 0BL.

MEETINGS OUTSIDE THE REGION

International Conference on Communications

Sponsored by the Communications Society of the Institute of Electrical and Electronics Engineers Inc., the Conference will be held 14-16 June 1976 in Philadelphia, Pennsylvania, and focus on "Communications—Cornerstone of Freedom". Original papers in the field of Telecommunications are invited but not limited to, the following areas; including related questions of their social and economic impact. Wire Transmission; Transmission Planning; Mobile Radio; Satellite Communications; Digital Communications Networks; Radio Propagation; Data and Computer Communications; Voice and Data Terminals; Communication Switching; Public Telecommunications Policy; Analog Carrier Systems; Communication Theory; Modem Design; Voice and Image Processing; Radio Interference; Integrated Circuit Design; Microwave and Millimeter Technology; Fibre Optic Systems.

Prospective authors were requested to send, by 1 December 1975, five copies, in English, of both the paper and a one-page summary of the paper to: Dr. Ralph W. Wyndrum Jr., Bell Telephone Labs., Inc., Whippany, N.J. 07981.

International Microwave Symposium

The 1976 IEEE MTT-S International Microwave Symposium will be held near Philadelphia, Pa., 14-16 June 1976 and will attempt "To Attain a Realistic Perspective in Microwaves". To achieve this role, the conference will use tutorial as well as contributed papers in the appropriate areas.

Papers are solicited describing original work, not published or presented previously, which can be theoretical, technological, or applications oriented. Any papers concerned with microwave techniques, devices, systems, and applications will be considered.

Authors were requested to submit both a 35-word abstract and a 500-1,000 word summary (up to six illustrations), clearly explaining their contribution, its originality, and its relative importance, before 2 January 1976 to: Dr. Martin Caulton, Chairman, TPC 1976 MTT-S Symposium, RCA Laboratories, Princeton, New Jersey 08540.

1976 Conference on Precision Electromagnetic Measurements

The 1976 Conference on Precision Electromagnetic Measurements

(CPEM) will be held 28 June through 1 July at the National Bureau of Standards (NBS) Laboratories in Boulder, Colorado. This conference is held every two years to discuss recent advances in techniques of precise measurement of all electromagnetic quantities at frequencies from DC through to the optical range.

Topics include measurements of fields and signal characteristics such as power, current, voltage, field strength and frequency; transfer characteristics of devices and networks, such as impedance, attenuation; and the electromagnetic properties of materials.

Contact: Dr. R. A. Kamper, CPEM '76 Technical Program Chairman, National Bureau of Standards, Boulder, Colorado 80302.

1976 IEEE Power Engineering Society Summer Meeting

The 1976 Summer Meeting of the IEEE Power Engineering Society will be held 18-23 July 1976 in Portland, Oregon. This meeting will include all subjects in the power field.

Authors who have significant contributions in the power field are invited to submit papers for review by the appropriate Technical Committee. 1 February 1976 is the deadline for receipt of original manuscripts at IEEE Headquarters if the paper is to be considered for the 1976 Summer Meeting. Page limits, typing requirements and the location of illustration and photographs are specified in the Power Author's Guide. Each paper will be reviewed by the appropriate Technical Committee. All accepted papers will be published in the Transactions on Power Apparatus and Systems either in full or in abstract. Preprints of all papers approved for presentation will be available prior to and at the meeting.

Following presentation, all papers classified for full publication, along with accepted written discussion and closure, will be published in Power Apparatus and Systems. All papers classified for abstract publication will be bound together in a special volume which will be available from IEEE Headquarters as Catalog Number 76CH1075-1 PWR. In addition, all accepted written discussions and closures of abstracted papers will be published in a separate bound volume which will also be available from IEEE Headquarters as Catalog Number 76CH1076-9 PWR.

Further information from: W. S. Greer, Technical Program Chairman, 1976 Summer Meeting.

EMI/EMC TRAINING

ELECTROMAGNETIC COMPATIBILITY AND INTERFERENCE COMPREHENSIVE ACCELERATED TRAINING
COURSES TAUGHT BY DON WHITE, INTERNATIONALLY-KNOWN CONSULTANT

ELECTROMAGNETIC COMPATIBILITY – DESIGN AND MEASUREMENT FOR CONTROL OF RFI/EMI –APR. 12–16, 1976, PARIS, FRANCE

This 5-day course covers the RFI/EMI/EMC field including system, subsystem and equipment prediction and analysis, EMC specifications, control and test plans, instruments, test methods and procedures, and EMI design, control, fix, and retrofit techniques. The latter includes wiring, grounding, bonding, shielding, filtering, and active circuits. Also included are prediction and analysis of EMI amongst communications, broadcast, land mobile, radar, and navigation systems. Price 695 U.S.A. dollars including all training materials.

SHIELDING & GROUNDING – APRIL 20-22, 1976, PARIS, FRANCE

This 3-day course covers the design of shields for cables, circuits, compartments, boxes, equipments, sub-systems, systems and complete vehicles; ground, naval, and space. The design, layout and analysis of wiring, shielding & grounding cables and harnesses is stressed. The course establishes the rationale and philosophy of grounding at all levels and a quantitative systems approach to the subject found in no other EMC course. Price 435 U.S.A. dollars including all training materials.

To register or obtain additional information on the above courses, contact M. van Schagen, SIMAC Electronics, b.v., Eindhoveneweg 58, Steensel, Netherlands. Phone: (04970)2011 or TLX 51037.

Other EMI/EMC and related seminars taught in U.S.A. during Spring 1976 include above courses, EMI Control in Design & Installation of Computers, Prediction & Analysis for Control of EMI, EMP – Design & Measurement for Control of Susceptibility, and MIL-STD-462 & System EMI Testing & Clinic. In addition, a 2-day Symposium on Computers & Programs for EMC will be presented in Washington, D.C., March 22-23.

Also available are EMI/EMC and related handbooks and computer programs and math models for programmable calculators and mini-computers.

For more information, contact:

U.S.A.
PHONE:
301-948-0028

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NEWS OF THE SECTIONS

Germany Section

On October 30 1975 the votes for the election of the Executive Committee of the Germany (West) Section of IEEE for the term 1976/78 were counted in Frankfurt/Main. The result of this election was:—

1. **Chairman:** Prof. Dr. phil. nat. habil. W. Kleen, Munich.
2. **Vice-Chairman:** Prof. Dr.-Ing. H. Doering, Aachen.
3. **Secretary:** Dr.-Ing. F. Coërs, Frankfurt/Main.
4. **Treasurer:** Dr. rer. nat. H. Ruechardt, Munich.
5. **1st Assessor:** Dr. H. J. Schmitt, Hamburg.
6. **2nd Assessor:** Prof. Dr.-Ing. W. E. Proebster, Stuttgart.

The next member meeting of the German Section of IEEE will take place on 13 October 1976 in Munich within the course of the 59th VDE-Congress '76; all members of the German Section will receive invitation and agenda therefore in due time.

Iran Section

The outcome of election for Iran Section Executive Committee for July 1975—July 1976 is as follows:—

- Chairman:** Reza G. A. Tourzan, P.O. Box 14-1687, Tehran, Iran. Tel: 659187.
- Vice-Chairman:** Ali A. Beiheghi, Ministry of Science and Higher Education, Villa Ave. Building No. 2, Tehran, Iran. Tel: 837103.
- Secretary:** Farzad Beglari, Dept. of Electrical Engineering, Arya-Mehr University of Technology, P.O. Box 3406, Tehran, Iran. Tel: (Home) 873637; (Office) 972001-9, Ext. 230.
- Treasurer:** Armen H. Ghocasian, Ave. Bahar, Zolmajd Tabatabaie No. 15, Tehran, Iran, 15. Tel: (Home) 757960; (Office) 662305.

Poland Section

Canadian Days in Poland—The first experiment in co-operation between two Regions of IEEE—were organized by Region 7, IEEE, and the Association of Polish Electrical Engineers (known as SEP—Stowarzyszenie Elektryków Polskich) with the IEEE Poland Section, Region 8, last October.

The Canadian delegation to the Days was composed of the following members: Dr. G. Sinclair, Director of the Canadian Region IEEE (Sinclair Radio Labs., Toronto, Ontario)—head of the delegation, Mr. D. M. Hinton, Junior Past Director of the Canadian Region IEEE (Bell Telephone Co. of Canada), Mr. E. W. Humphrys and Dr. O. J. C. Runnals (Dept. of Energy, Mines and Resources, Ottawa), Prof. W. Janischewskyj and Prof. G. R. Slemon (University of Toronto), Prof. E. Kuffel (University of Windsor), Mr. W. A. Patterson (New Brunswick Electric Power Commission), Mr. W. Pronovost (Research Institute of Hydro-Quebec), and Mr. H. W. Winter (Ontario Hydro). The delegates were accompanied by their wives.

The members of the Canadian delegation visited Warsaw, Cracow and Zakopane in the Tatra Mountains as guests of SEP.

During the event, the first two-day Canadian Electric Power Symposium was held in Warsaw. Over 250 participants were welcomed by the President of SEP, Mr. T. Dryzek, the Deputy Minister of Energy, and the Canadian Ambassador to Poland.

The following papers were presented: "Electric Power in Canada" (E. W. Humphreys), "IREQ Facilities and Research" (L. Boulet, G. Cloutier, R. Pronovost), "Ontario Hydro's Data Acquisition and Computer Systems (DACS) for Power Systems Operation" (W. H. Winter, E. A. Watson), "The Eel River HVDC Scheme" (W. A. Patterson),

"Network Analysis and Control of Synchronous Machines" (W. Janischewskyj), "Nuclear Energy and the CANDU Reactor" (O. J. C. Runnals), "The Canadian MAGLEV Project on High-Speed Inter-Urban Transportation" (G. R. Slemon), "Power and Communications: Partners and Adversaries" (D. M. Hinton, W. Janischewskyj), "Future of Fusion" (G. Sinclair).

The results of the Days were reported by Professor A. Smolinski, Poland Section Chairman, at the IEEE Region 8 Committee Meeting in Zürich, and were received with appreciation.

United Kingdom and Republic of Ireland Section

At the Annual General Meeting held in February 1975, several suggestions from members resulted in changes in activity in the Section. One of these changes has been the re-activation of the Professional Communication Chapter under the Chairmanship of Professor E. Openshaw Taylor, Clare Cottage, Pett Road, Guestling, Sussex, TN35 4EX, with Mr. G. A. Hanley, School of Electrical Engineering, Plymouth Polytechnic, Drake Circus, Plymouth, PL4 8AA, as Secretary. Any member interested in this most important area of activity is asked to get in touch with one of them so that a useful programme may be generated.

It is proposed to hold the first meeting for the whole Section organized by the revived Chapter at 6 p.m. (tea at 5.30) on Tuesday, 11 May 1976, at King's College, Strand, London, when a talk reviewing the scope of and attitudes towards Professional Communication will be given by P. H. Walker, M.Sc., F.R.Met.S., M.R.T.S., Lecturer in Television and Communication at Heriot-Watt University, Edinburgh.

The next Annual General Meeting will be held at the Institution of Electrical Engineers, Savoy Place, London, WC2, on Wednesday, 11 February 1976, at 6 p.m. (tea at 5.30). In the past two years it has been followed by an informal buffet supper in the IEE Refectory but, this year, the funds of the Section do not permit this to be provided free but a cash bar will be open after the meeting. As the last AGM was so productive of ideas, the Executive Committee hopes that this year's meeting will be equally well attended and stimulating.

The meeting at Imperial College on 18 November, when Dr. J. D. Wright asked "Can novel energy sources fill the energy gap", was well attended and produced an interesting discussion both at the formal meeting and the informal one which followed it. The next such evening is planned for Friday, 27 February, when a lecture on "The Electro-Optic Properties of Liquid Crystals" by Professor L. E. Davis (Paisley College of Technology, Scotland) will be given at The City University, London EC1V 4PB, in Room U317 at 6 p.m. Tea will be available from 5.30 p.m., and all IEEE members, students and guests are welcome. For confirmation contact Dr. A. C. Davies (The City University), 01-253 4399, Ext. 425 or 420.

Introductory Course on Microprocessors

The course held on 16 October 1975 was oversubscribed so it is to be repeated in mid-February. The two days on which it will be held at The City University may be learned from Dr. Davies. It is again sponsored by IEEE Circuits and Systems Chapter plus The City University, Department of Electrical and Electronic Engineering, with lectures from D. Wright, D. Shipperlee and staff of The City University. The fee will be approximately £30 including meals. (We plan to have a much reduced fee for research students). For details contact Dr. A. C. Davies, The City University, St. John Street, London, EC1V 4PB, Tel: 01-253 4399, Ext. 425.

Any member interested in joining an organized group to visit the International Convention and Exhibition (INTERCON) in New York next April should write to Catherine Dunseath, Meon Travel Agency Ltd., 32 High Street, Petersfield, Hampshire.

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