

IEEE Region 8 newsletter



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
INCORPORATED



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INSTITUTE NEWS

IEEE Board Recommends Expansion into Non-Technical Areas

Robert H. Tanner, the President, announced that the IEEE Board of Directors, at a special meeting, had agreed in principle to recommend to the membership a change in its constitution which would permit entry into non-technical fields, while continuing its present scientific and educational functions. The action came after analysis by the Board of 57,000 replies to a questionnaire mailed to members in the US early this year. The details of the questions and a tabulation of 47,000 replies appeared in the March issue of "IEEE Spectrum". The US members were asked whether they would favour IEEE becoming more active in political and economic matters of concern to the electrical engineering profession. The response was affirmative by a vote of better than 2:1. Other matters included in the questionnaire were the preparation by IEEE of position papers, recommendations on professional employment practices, pension plans, salary surveys, public relations, technological forecasting, continuing education and career guidance. With few exceptions, the returns indicated a desire on the part of the US membership to enter or enlarge programmes in these areas. President Tanner reported that some of these activities, such as technological forecasting and career guidance, are permitted under the present constitution and the IEEE has active programmes now under way in these areas. Professional activity in economic, social, legislative and ethical areas of the profession is, however, barred by the present constitution. He reported to the Board a legal opinion that the proposed amendment to the constitution would permit the Institute to enter all of the areas dealt with in the questionnaire. He noted that the proposed amendment would expressly bar IEEE from engaging in collective bargaining, customarily dealt with by labour unions. A provision of the proposed amendment, necessary to implement non-technical programmes governed by the laws and customs of individual countries, provides that the IEEE may engage in activity that meets the needs of members residing in a particular country or area of the world. An implementing bylaw, covered by this provision, provides that payment for special services so rendered would be reflected in the dues and fees charged in the respective areas of the world.

Mr. Tanner stated that, as anticipated in a matter of such fundamental importance to the Institute, the vote by the Board was not unanimous, but the vote, 18 to 5 in favour, showed that a substantial majority of the Board supported the proposed move when the vote occurred. Later in the meeting all members of the Board present declared their support of the action. The wording of the proposed amendment will be released after review by legal counsel and after a programme of specific implementation, which would be undertaken if the members adopt the amendment, was acted on by the Board at its May meeting. Thereafter, publication of the amendment and the programme in "IEEE Spectrum" is planned, followed by presentation of the amendment to the members for vote, in ballots to be mailed in September. If approved by the required two-thirds of the members voting, a further step, a confirming modification to the Charter under which IEEE is incorporated in New York State, must be taken, after which implementation of the new amendment can legally occur.

Mr. Tanner said that it was the hope of the Board that the membership would grant approval of the amendment by a substantially larger vote than the required two-thirds. He em-

phasised that the provisions of the constitution relating to the Institute's present technical activities have been retained unchanged, except for minor editorial revisions to improve their clarity, and that the Board was committed to continue and to advance its position as the leading technical society, in membership and resources, in the world.

1973 Dues Increase

Increases above the present level of \$25 per year are effective from 1 January 1973. In *all Regions* the dues, proper, for members, except Students, will rise \$5 per year, that is, to \$30 from \$25. In Regions 8, 9 and 10 (outside US and Canada), that is the *total increase*. The \$5 dues increase will be applied generally to meet the costs of carrying on present service.

Intercon '73

Departing from March Convention-practice of the recent past, Intercon '73 will broadcast a Call for Papers. The technical programme, under Jack Raper, will be grouped about ten topics in seminar-like concentration, each composed of a mix of invited and accepted papers. Exhibits will be clustered in an "Electronics Mall", with ten categories of products.

Under the theme "Solid State Shapes the Future", a special theme area will feature the progress of semi-conductor applications in such fields as automotive, marine, power, processing, and pollution, in addition to the more usual electron-device uses. (Details are available from Bill Hilty at Headquarters). IEEE and Electronic Industries Association (EIA) will collaborate in the observance of the transistor's 25th anniversary. Focal point will be presentation of commemorative medals to the three inventors: John Bardeen (IEEE Medal of Honour 1971); William Shockley (IEEE Liebmann Award 1952) and Walter Brittain.

Labels for Section Mailings

Only 40% of our Sections obtain address labels by automatic striplists on standing order from IEEE. For ten meetings a year, the annual cost comes to only 10c a member. When IEEE delivers labels to meet your mailing dates, they are *hot off the computer*—why use labels from stale lists?



Donald Fink, General Manager of IEEE; Robert H. Tanner, President of IEEE; Prof. Paul Jespers, Region 8 Director; and Harold Chestnut, Vice-President of IEEE, discussing the future of Region 8.

Joint ASE/IEEE Student Membership

The information concerning this joint venture which appeared in the No. 18 (April/May) issue of the Newsletter is premature. At the present time this is still a proposal which we hope will become effective in the near future. (R. Dessoulavy, Chairman, Swiss Section.)

New Style for Newsletter

Attention is again drawn to the urgent need for this Newsletter to carry advertisements. The advertising rates given on the front page of the last issue, and repeated on the back page of this issue, are now available in more complete form from Messrs. Sweatman and Fordham, Byron House, 7 St. James's Street, London, SW1, England.

It was on the advice of these Advertising Representatives, who handle advertising from Europe in "Spectrum", that the size of page now used for the Newsletter has been changed to the American standard size used for "Spectrum" as well as for Transactions, Group and Society Newsletters and, in fact, all the publications issued by IEEE, New York. The Editor apologises to all those members interested in European standardisation for departing from A4 size.

Outstanding Speakers

In addition to the information given about the speakers listed in the last Newsletter, the Officers of each Section have been sent much more complete information about the subjects on which lectures can be offered.

Since that list, the following four extra names or additional information have been received and, here again, if you have an interest in the speakers contact your Section Chairman.

Dr. John J. Allan, College of Engineering, Department of Mechanical Engineering, ELB 219, University of Texas at Austin, Austin, Texas 78712. Titles of lectures: Computer based design; Quantitative measures of storage tube graphics effectiveness; Mine computer executive systems; a computer based science education system; Design optimisation by adaptive control. Available, October 19–November 1. IEEE Sections of preferred interest—any. Languages: conversational Spanish and German. Contact addresses and dates: Philips Laboratories, Eindhoven, Netherlands. Planning Committee of IFIP World Congress on Computer Aided Design, October 16–18; Professor F. Gardiol, Ecole Polytechnique Federale, Chemin de Bellerive 16, CH 1007 Lausanne, Switzerland, October 19+ or 27–; Professor Marco Somalvico, Istituto di Elettrotecnica ed Elettronica, 20133 Milano, Italy; Leonardo da Vinci 32, October 23. Abstracts available.

Prof. Georges A. Deschamps, Director Antenna Laboratory, Department of Electrical Engineering, University of Illinois, Urbana, Ill. 61801, USA. Titles of lectures: Beam optics; Antennas, plasmas, magneto-ionic media; Polarisation; Antenna synthesis. Available: Sabbatical leave, Paris, Fall Semester 1972. Languages: English, French. Contact address: Faculté des Sciences, Laboratoire de Radio-électricité, Orsay, Paris, France. Abstracts available.

Mr. Julian Forster, Manager, Requisition Engineering, General Electric Company, Atomic Power Equipment, 175 Curtner Avenue, San Jose, Calif. 95125, USA. Titles of lectures: Nuclear power; Instrumentation and applications of computers to control of nuclear power. Available: October 3–6, Paris; October 11–13, Rome. IEEE Sections of preferred interest: France, Spain, Greece, Italy, particularly Paris, Madrid, Athens, Rome. Languages: English and conversational German. Abstracts available.

Dr. George Knittel, MIT Lincoln Laboratory, PO Box 73, Lexington, Massachusetts 02173, USA. Title of lecture: Phased array antennas. Available early and late October. IEEE Sections of preferred interest—any. Contact address: Seminar on Phased Array Antennas, Technion, Haifa, Israel. Abstracts available.

Slide Tape Lectures

The following are available on loan from Mrs. C. Stievenart, 206 Avenue Armand Huysmans, 1050 Bruxelles, Belgium, at a handling charge of \$2.50 to Student Branches, \$10 to others, or may be purchased outright:—

Ref. 71-IC-4.5: "How LSI May Affect Future Computers", Rex Rice, sale price \$37.50.

"Government Marketing—An Engineering Application", Chairman: J. H. Sidebottom, Raytheon, Lexington, Ma., USA. A

strong engineering background is needed to successfully market systems and products to the sophisticated Government customer. The need to satisfy performance requirements (fulfill a mission) applies to Defence programmes, NASA programmes, and is becoming more important in DOT, HUD and HEW programmes. Two sessions describe a Government programme as it goes through its marketing life-cycle.

Ref. 72-GM-01: "Matching the Customer Need", J. H. Sidebottom, Raytheon, \$36.50.

Ref. 72-GM-02: "Designing the Win", R. L. Rynearson, Honeywell, \$35.50.

Ref. 72-GM-03: "Preparing the Win", A. E. Williamson, Martin, \$40.50.

Ref. 72-GM-04: "Helping the Customer Decide", P. R. Beall, Consultant, \$18.50.

Ref. 72-GM-05: "You Haven't Won a Thing Yet", S. N. Josephsberg, Fairchild, \$22.50.

Ref. 72-GM-06: "Selling After the Sale", H. D. Lawton, Westinghouse, \$98.50.

Please note that the sale price of the Eurocon slide tape lecture "Integrated Circuits—Revolution in Electronics" by O. W. Memelink is \$35.50 instead of \$54 as indicated in the last issue of the Newsletter.

Cassettes: 71-CC-05: "Upcoming Decade of Automotive Electronics"; 71-CC-06: "Sales Management Techniques"; 71-CC-07: "Engineering Management Interface"; 71-CC-08: "Programming Languages for the Layman".

Engineering Aspects of Medicine

During the recent successful Eurocon 71 Conference, a group of IEEE members interested in the engineering aspects of medicine met to discuss the possibility of forming a Region 8 Council of GEMB. A small Steering Committee was elected and a subsequent ballot of all Region 8 GEMB members produced a significant number who were in support of the proposition. In accordance with the bylaws of the GEMB and the Institute, this temporary Council is now making arrangements for the election of permanent Council members.

The principal aims of the new Council will be to secure a maximum of information exchange between the GEMB members in countries comprising Region 8, and also between Region 8 and the other Regions. To this end all possible steps will be taken to ensure a cordial co-operation between the wide variety of national societies and the GEMB Region 8 Council. The Council consists of Prof. C. D. Ray, Chairman (Switzerland); Prof. R. Magnusson, Vice-Chairman (Sweden); Dr. G. H. Byford, Secretary/Treasurer (UK); representatives-at-large: Mr. G. Francini, Padua, Italy; Mr. L. H. Zetterberg, Stockholm, Sweden; Mr. P. V. Rembold, Freiburg, Germany; Mr. D. C. Poortvliet, Wassenaar, Netherlands; Mr. P. Bucher, Lucerne, Switzerland; Mr. P. Peronneau, Paris, France. Enquiries should be addressed to Dr. G. H. Byford at Royal Air Force, Institute of Aviation Medicine, Farnborough, Hants, England.

1973 European Microwave Conference

The Third European Conference on Microwaves will be held at Brussels University from 4–7 September 1973. It is organised with the support of Fabrimetal, and the co-operation of the IEE (Great Britain), the IEEE (Region 8, Professional Groups MTT, AP, ED), and the Belgian Committee of URSL. The main topics of the Conference will be—

Passive components for microwaves (millimeter and optical waves included) and their computer optimisation; Active semiconductor elements and integrated sub-systems; Components and systems for communication purposes; Microwave acoustics; Industrial applications of microwaves; Microwave tubes.

Conference address: Dr. G. Hoffman, Secretary-General, 1973 European Microwave Conference, St. Pietersnieuwstraat 41, B-9000 Ghent, Belgium.

1973 IEEE Information Theory Symposium

This will be held from 25–29 June 1973 at Ashkelon, Israel, and will be sponsored by the Information Theory Group of the IEEE.

Research papers on all aspects of information theory are invited from all countries for presentation at the Symposium. In addition to papers in the classical areas of coding theory and systems, statistical detection and estimation theory, communication system analysis and design, statistical data processing and

pattern recognition, contributions are especially solicited on newer applications of the basic concepts in biomedical engineering, environmental and urban systems studies, communication nets, the computer-communication interface, and new data-processing devices and techniques.

There will be two types of contributed papers: "long" papers, to be presented in 30 minutes, and "short" papers, to be presented in 15 minutes. Authors of papers for long presentation should submit the complete manuscripts (including an abstract) before 1 February 1973. Short papers will be considered on the basis of an abstract plus a one or two page summary. Furthermore, for both long and short papers, authors are requested to submit a descriptive sheet answering the following questions: (1) Briefly, what advance is contributed by the proposed paper? (2) What are the most important references to prior and related work? (3) What implications, theoretical or practical do you foresee for your results?

Symposium Co-Chairmen are—Dr. A. Wyner, Room 2C-357, Bell Laboratories, Murray Hill, New Jersey 07974, USA; Dr. J. Ziv, Faculty of Electrical Engineering, Technion-Israel Institute of Technology, Haifa, Israel. Send manuscripts, abstracts and descriptive sheets *in triplicate* to Dr. N. J. A. Sloane, Room 2C-363, Bell Laboratories, Murray Hill, New Jersey 07974, USA.

CIREN 1973

The Second International Conference on Electricity Distribution will be held in London, England, from 7-10 May 1973. It will be concerned with matters involving the supply and use of electricity at all distribution voltages, including the design and manufacture of associated equipment. For the purposes of the Conference, the upper limit of distribution voltage is to be understood as the highest voltage at which there is an operational interface between supplier and consumer in any of the participating countries. Primary control of the Conference is in the hands of an International Scientific Directing Committee, with a membership representative of Western European countries. Preferential subjects are system components, component reliability, distribution in high load density areas, and voltage disturbances.

Full particulars are available from CIREN British National Committee, IEE Conference Department, Savoy Place, London WC2R 0BL, England. These include the names and addresses of National Representatives in 8 countries.

Fly to Wescon '72, Los Angeles

The Electronic Engineering Association, in co-operation with American Express, is sponsoring a ten-day return facility flight to Los Angeles to cover the holding of the Wescon '72 Show at the New Convention Center, Los Angeles, from 19-22 September 1972. This flight will leave on 10 September from London, and the return date is 25 September. Charges will be as follows:—twin bedroom: first-class hotel £250 each, standard hotel £242 each, economy hotel £225 each; single bedroom: first-class hotel £275, standard hotel £257, economy hotel £252.

For enquiries regarding the special travel facilities, write to The Electronic Engineering Association, Leicester House, 8 Leicester Street, London WC2H 7BN, England.

Second International Conference on Gas Discharges

The Conference will be held in London from 11-15 September 1972. The emphasis will be on the engineering applications of gas discharges, although many papers will deal with fundamental aspects of the subject. Authors from 21 countries will provide a total of nearly 150 contributions, and there will be plenty of opportunity for discussions between delegates both during and outside sessions. The rapporteur method of presentation will be used to ensure that the maximum time is available for discussion of the texts of the contributions. Further details are available from the Conference Department, The Institution of Electrical Engineers, Savoy Place, London WC2R 0BL, England.

Metering, Apparatus and Tariffs for Electricity Supply

This Conference will be held in London from 26-29 September 1972. The programme includes: "The Work of the Organisation Internationale de Metrologie Legale"; "European Economic Community and its Effects on Manufacturing, Billing

and Legal Aspects of Electricity Meters"; "Calibration for Industry—The British Calibration Service"; "Meter Department Organisation and Methods. Legal Requirements and Quality Control"; "The Problems of Manufacture"; "Tariffs and Economics"; "Data Capture"; "Remote Automatic Meter Reading and Outside Meter Terminations"; "Meter Reading, Billing and Collection"; "Load Control—Remote and Local"; "Engineering Consequences of Tariffs and Metering"; "Meter Engineering and Design".

The majority of contributions will be presented by the rapporteur method, to ensure that the maximum time is available for discussion. On Friday, 29 September 1972, there will be a programme of technical visits. Further details are available from the Conference Department, The Institution of Electrical Engineers, Savoy Place, London WC2R 0BL, England.

Electrical Variable Speed Drives

This Conference will be held in London from 10-12 October 1972. The aim is to provide a forum where the particular advantages of each of the many alternative drives may be clearly formulated and discussed. The programme includes: "Cranes, Machine Tools and Winches"; "Pumps, Fans and Textiles"; "Domestic and Light Industry"; "Comparison"; "Traction"; "Large Reversing Drives"; "Protection, Systems and Reliability"; "Future Developments". Each registrant will receive prior to the Conference a copy of the texts of the contributions included in the programme. As soon as possible after the Conference, participants will receive an Appendix containing a summary record of the discussion. Further details are available from the Conference Department, The Institution of Electrical Engineers, Savoy Place, London WC2R 0BL, England.

Eurocon 74

Following the considerable success of Eurocon 71, which was held in Lausanne over 4 days in October 1971 with 250 papers and over 1100 participants from Europe and overseas, the Regional Executive Committee has decided to stage a second Convention which will be held in 1974.

Eurocon 74 will open on April 22 1974 and last for 3 or 4 days as did Eurocon 71, and the organisation will be shared between IEEE Region 8 and the Convention of the European National Societies (an association which has been formed recently and which groups several of the National Societies of Western Europe).

Following a preliminary discussion held in Brussels a few weeks previously, a first meeting to initiate the Convention was held in Amsterdam on July 5 at which were also present Dr. Roggen-dorf, President of VDE, Dr. Ing Fleischer, General Secretary of VDE, and Mr. Richard, President of the Association Suisse des Electriciens and President of the Convention of the European National Societies. It is encouraging to see the co-operative attitude of the European National Societies and to know already that we can rely on their active co-operation.

The organising Committee of Eurocon includes:

- the President—Professor Stumpers,
- the President of Region 8—Professor Jespers,
- the President of the Convention of European National Societies—Mr. R. Richard,
- the President of the IEEE Benelux Section—Mr. E. Reygaerts,
- the President of the Netherlands National Society KIVI—Ir. van den Broeke,
- the President of Eurocon 71—Dr. F. Eggimann.

The central theme of Eurocon 74 will be "The Engineer and Society", sub-divided into the following subject areas:

- (1) Controlling the future
- (2) Instrumentation electronics
- (3) Communications in the 1980s.
- (4) The computerised society
- (5) Biomedical engineering
- (6) Education.

A detailed programme has been prepared by Dr. Stumpers and was presented at the Brussels and Amsterdam meetings.

The nucleus of a Working Committee comprising Professor Stumpers, Dr. Ing Fleischer, Mr. Gaikhorst and a KIVI representative has been constituted. Other members will be chosen later and this Committee will deal with the practical organisation of Eurocon 74.

The nucleus of a Programme Committee has also been formed under the chairmanship of Professor Stumpers and initially comprises Professor Kleen and Professor A. Vander Vorst, the Region 8 Student Activities Chairman for 1972/73.

NEWS OF THE SECTIONS

IRAN SECTION

The annual meeting of the Section took place at the Arya-Mehr University of Technology on 20 May 1972. The Bylaws of the Section were approved unanimously, then the ballots for electing the new Section Officers were counted. The result is: Chairman, Mr. G. Farman-Farmaian; Vice-Chairman, Mr. P. Jabbehdar; Secretary, Mr. A. Rahimi; Treasurer, Mr. H. Mahdi. According to the Section Bylaws, the new officers will assume office on 1 July 1972.

The first Section Officers would like to thank all IEEE members who assisted the establishment of the Iran Section and its operation. We wish the newly-elected Officers every success, and encourage all IEEE members to help in running the Section. Details of eight seminars, dealing with electromagnetic interference control, digital control of sub-stations, preferred fuel and economic transmission of energy in Iran, control problems, power system analysis, colour TV, filters, show authors coming from England, Germany and India as well as Iran.

NORTH ITALY SECTION

The Section Officers elected in April are: Chairman, Prof. E. de Castro, Istituto di Elettronica, Viale Risorgimento 2, Bologna; Vice-Chairman, Prof. V. Svelto, CISE, Via Redeciesio, Segrate; Secretary/Treasurer, Prof. V. A. Monaco, Istituto di Elettronica, Viale Risorgimento 2, Bologna; Awards Committee: Prof. G. Zoldan, Istituto di Elettrotecnica, Via Valerio, Trieste; Membership Committee: Prof. E. Volta, Istituto di Elettrotecnica, Via Cambiaso 6, Genova; Publicity Committee: Prof. P. P. Civalieri, IENGf, Corso Massimo d'Azeglio 42, Torino; Student Activity Committee: Prof. G. Cariolaro, Istituto di Elettrotecnica, Via Gradenigo 6/a, Padova; Senior Past Chairman: Prof. E. Gatti, Politecnica di Milano, Piazza Leonardo da Vinci 32, Milano; Junior Past Chairman: Prof. G. Catenacci, CESI, Via Rubattino 54, Milano; Junior Past-Secretary/Treasurer: Mr. G. Carrara, CESI, Via Rubattino 54, Milano.

UNITED KINGDOM AND REPUBLIC OF IRELAND SECTION

The Professional Group G25-Education has decided to hold its annual Frontiers in Education Conference in 1974 in the UKRI Section.

The following organisations will be co-sponsors of the Conference:

The Institution of Electrical Engineers in association with other national bodies.

The UKRI Section (Education Chapter) of the Institute of Electrical and Electronics Engineers.

The Group on Education of the Institute of Electrical and Electronics Engineers.

The Educational Research and Methods Division of the American Society for Engineering Education.

An Organising Committee, under the chairmanship of Professor Robert C. G. Williams is being established. Dr. Lindon Saline will serve as Programme Co-ordinator for the Group on Education, Dr. E. C. Jones, Jr., and Mr. L. H. Noggle will serve with him for the Group, and it is anticipated that Professor Helen Plants will appoint representatives from ERM to complete the representation from the USA.

The Conference will be held at the City University, London, England, where residential accommodation will be available, during week commencing July 15, 1974, and will occupy 5 days, probably with one day free for a programme of visits. The Conference will give particular emphasis to the latest developments in the field of educational technology, and consideration is being given to a parallel professional exhibition of apparatus and demonstrations associated with the papers being presented. Further information from Frontiers in Education, Conference 1974 Secretariat, Institution of Electrical Engineers, Savoy Place, London WC2R 0BL, England.

STUDENT ACTIVITY NEWS

No information has been submitted for inclusion in this issue of the Newsletter.

SUMMARY OF ADVERTISING RATES

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