IEEE Region 8 News

No. 94 - May 1991

Europe, Middle East and Africa



Editor

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France

Dr Frédérique Vallée (Secretary)

Conferences

In association with other Societies the France Section of Region 8 is participating in the following conferences:

- *CompEuro '91. Advanced Computer Technology, Reliable Systems and Applications (Bologna, 6-10 May 1991). Contact: Prof. Vito A Monaco, Dipartimento di Electronica, Informatica e Sistemistica, Facoltá di Ingegneria, Via Risorgimento 2, 40136 Bologna, Italy.
- *ICDAR '91. First International Conference on Document Analysis and Recognition (St-Malo, 30 September 2 October 1991). The conference will provide an international forum for the development and dissemination of new ideas, basic research, and issues concerning practical applications of both on-line and off-line processing in the domains of automatic analysis and recognition of documents. Contact: V. Ségaut, C.Sweeney, ICDAR '91, AFCET, 156 bld. Péreire 75017 Paris, France; Tel: +33 1 47 66 24 19; Fax: +33 1 42 67 93 12).
- *CMCEN '91. Communications for Monitoring and Control of Electrical Energy Networks (Paris, 8 October 1991). The conference will cover the principal developments concerning communications for monitoring and control of electrical energy networks, with emphasis on three main points: new requirements, proposed and existing solutions, and standard requirements. Contact: CMCEN '91, SEE, 48 rue de la Procession, 75015 Paris, France; Tel: +33 1 45 67 07 70; Fax: +33 1 40 65 92 29.

- *PQA '91. First International Conference on Power Quality (Paris 15-18 October 91). Power quality is a key factor in the productivity of electric energy end-use applications which use sensitive electronic equipment. Experience shows that the presence of intermittent perturbations can lead to costly malfunctions. The search for solutions to these problems requires an extensive knowledge of the causes and consequences of such perturbations and a strong cooperation between end-users, manufacturers and electric utilities. Contact: M. Lucien Deschamps, SEE, 48 rue de la Procession 75015 Paris, France; Tel:+33 1 45 67 07 70; Fax: +33 1 40 65 92 29.
- * 5th International Conference on Putting into Practice Methods and Tools for Information Design. (Nantes, France, 23-25 September 1992. This conference aims to present the latest developments in: concepts, methods and operational tools; it will be attended by those from both the academic and the industrial spheres. Contact: M. Henri Habrias Liana, IUT, 3, rue du Maréchal Joffre 44041 Nantes Cedex 01, France, Tel: +33 40 30 60 56; Fax: +33 40 30 60 01

We have pleasure in announcing that the following conferences are in preparation:

- i) Annual IEEE Robotics and Automation Conference in Europe (Acropolis, May 1991)
- ii) CompEuro 93. Computers in Design and Manufacturing. (Montpellier, 11-14 May 1993. Contact M. Alain Croisier, IBM France, 3-5 place Vendôme, 75001 Paris, France; Tel: +33 1 40 15 53 04; Fax: +33 1 42 60 99 75).

- iii) ICHPS-IV. (Paris, September 94). Contact: M. Gérard Santucci, Club 15 Réseaux d'énergie, SEE, rue de la Procession 75051, Paris France; Tel: +33 1 45 67 07 70; Fax: +33 1 40 65 92 29.
- iii) ICHPS-IV. (Paris, September 94). Contact M. Gérard Santucci, Club 15 Réseaux d'énergie, SEE, rue de la Procession 75015, Paris, France; Tel: +33 1 45 67 07 70; Fax: +33 1 40 65 92 29.

Other French News

Dans la cadre des accords passés entre l'A.R.E. Et la Section française de l'I.E.E.E., nous annonçons les conférences suivantes:

- * Généation et mesure du temps et des fréquences (par M. Jacques Rutman - 29 mai 1991)
- * Le programme nucléaire français Où en est-on? (par M. Bernard 5 juin 1991) * Radiocommunications avec les mobiles (par M. Alain Charbonnie - 12 juin 1991)
- * La guerre électronique (par l'I.G.A. Paul Assens 23 octobre 1991)
- * Optronique det le dimainé militaire (par M. Jean Dansac 27 novembre 1991)

Ces conférences auront lieu à 17h, dans la salle n^o 11 de la FIEE, située au quatrième étage du 11 rue Galilée, Paris 16éme - Métro Boissière ou léna.

Pour tout renseignement ou confirmation, s'adreser à Mme Birckel, 193 rue du Faubourg Saint-Martin, 75010 Paris: Tel:(1) 46 07 40 77.

France Chairman: Dr. Maurice G. Bellanger, 54 Rue de Rennes, 75006 Paris, France. Tel: +33 1 40 94 75 16. Fax: +33 1 46 30 62 24.

Germany

By Prof. Dr-ing. E. Handschin (Publications Officer)

The Executive Committee of the Section had its first meeting in the legislation period 1991/93 on 14th January 1991 in Frankfurt/Main. The Chairman, Prof. Dr. A.Schwab commemorated the late Dr. Berghammer who was recently elected vice chairman; the new vice-chairman is Mr. R.L.Baber. To cover all the Section activities the Chairman suggested the following officers:

Prof. Dr. Kaiser, Stuttgart Awards & Nominations

Prof Dr. Hahn, Passau Student Activity Coordination

Prof. Dr. Proebster, Munich Membership Development

> Dr. Ney, Aachen Conference Officer

Prof. Dr. Handschin, Dortmund Publications Officer

> Prof Dr. Kühn, Stuttgart Assessor Information

Prof. Dr. Saal, Munich Senior Past Chairman

Dr. Coers, Frankfurt Secretary

Prof. Dr. Hartnagel Chairman Microwave Theory Techniques Chapter

Mr. Höhler Chairman, Computer Chapter

Prof. Dr. Mlynski Chairman, Circuits & Systems Chapter

• In cooperation with the German Section the following conference will take place: "Musterekennung '91". 13, DAGM Symposium. 09-11.10.1991. Munich.

Prof. Dr. R. Unbehauen was in 1991 elected a Fellow for "Contributions and Leadership in the Field of Analogue and Digital Filter Design, and Signal Processing".

During the executive committee meeting there was an exchange of information with the VDE general secretary, Dr. Althoff, who emphasised the good cooperation between VDE and IEEE.

At the end of December 1990 the number of members in the Germany Section was 2.615, a figure which includes some 500 student members. Prof. Hahn will continue the work of Mr. Faßbender in student activities.

The next executive committee meeting will take place on 28th October 1991 in Frankfurt.

Section Chairman: Prof. DR.ing. Adolf J. Schwab, Kaiserstrasse 12, 7500 Karlsruhe 1, Germany.

Yugoslavia

By Professor Baldomir Zajc
(Section Chairman)

We wish to inform everyone about the programme for the Melecon '91 Conference which will be ehld in the Congress Centre I. Cankar at Ljubljana on 22nd-24th May 1991. Six parallel sessions means that there will be six Conferences for the appropriate specialists, all under one roof.

Some authors from the Near-East were not able to send their final manuscripts because the mail was not operating satisfactorily on account of the Gulf war; this we deeply regret. Nevertheless we still extend a warm welcome and friendly encouragement to come to the conference. The process of democratisation in Yugoslavia has never affected our foreign guests - to whom the people are always especially kind.

Romania

By Professor Andrei Silard
(Section Chairman)

In January 1991 the Section had 77 members, two months later there were more than 150, of whom 25 were students. New applications are almost evenly divided between academia and the research/industry world. Apart from Bucharest, which accounts for some 75% of the total, the new IEEE applicants reside in four other towns. An IEEE office will shortly become operational in the Department of Electronics at the Bucharest Polytechnic. The adjacent IEEE library is gradually expanding, through both subscriptions and donations.

Membership numbers often hide a reality instead of revealing it; for this reason the Executive Committee does not regard increased membership as a goal in itself. In a society in which the scientific community was from the outside world, whole generations now have no knowledge of what international professional bodies, such as the IEEE are, and what facilities they provide; false expectations and misconceptions are still widespread. In order to establish the place of the IEEE in the Romanian scientific community we are promoting an "explanatory campaign" at both local and national levels and also on the national television. As soon as the

segments of our Electrical Engineering community fully understand the essence of the IEEE and the benefits of joining the Institute, our Section will possess its own self-sustaining strength and membership will grow naturally.

Section Chairman: Professor Andrei P. Silard, Aleea Alexandru 19, Bucharest 712 73 Romania. Tel: +40 0 313331. Fax: 159 957 (CEPES)

Professor Enrico Chiarucci



Professor Enrico Chiarucci, an Italian informatics, radar and EW expert, died in November 1991 at the age of 50. He earned the Licence d'enseignement de physique from the Sorbonne University and started his professional career with the French broadcasting network, where he worked on psychoacoustics, signal processing techniques in the audio and musical fields and in the psychosociology of communication.

For a long period he was head of the Basic Analysis and Scientific Calculus Service at Selenia in Rome, where his work spanned a variety of subjects: electromagnetic compatibility, computer simulation and modelling of battlefield electromagnetic environments. Later he was involved in the Lexar Project (Rabat Morocco) where he was in charge of computer facilities and software development, one part of which was the creating of a very large multilingual bi-alphabetic data base with over one million entries in Arabic, French, English and German.

The last part of his professional life was spent at the NATO SHAPE Technical Centre in the Hague, mainly on the definition and early prototyping of C2 information systems, data base replication, data fusion and KBS for decision support. He was a member of the IEEE, ACM, AFCEA and the Computer Arts Society. His colleagues and friends remember him for his bright professional capability and also for his human qualities, especially as a motivating and supporting team leader with great energy and inventiveness.

A. Farina, Rome.

Students International

By Miss Goze Bozdadi



This is my first opportunity to write for Region 8 News as the Regional Student Representative. First I would like to thank my predecessor Mikko Kaatajamaki for all that he has done for the students in the Region; I hope my term also will be full of activity and that you will all contribute your enthusiasm and creativity.

There are only 60 student branches from the 300 Regional universities and only 23 of the 70 countries in the Region are represented by Student Branches; this is one of the major problems with which we are faced. The IEEE is an international society and by being an IEEE member one can enjoy many privileges and benefits: exchange ideas with students from different countries, experience different cultures, join activities which are both technical and cultural, and learn about the latest developments in electrical engineering. So, why don't we all together try hard to increase the number of our members?

My second point concerns the Trans National Meeting '91, organised by the Benelux Students Branches on 3rd-15th February. It was a great opportunity for me to take part in TNM'91 so soon after being appointed RSR: it was a marvellous meeting and I feel sorry for all those students who were unable to attend. I would like to thank the Student Branches in Eindhoven, Delft, Leuven and Louvain-la-Neuve for their efficient organisation of this great occasion.

Trans National Meeting 1991

In the November issue of Region 8 News, Mikko wrote about the importance of being international; it really is very important and also a great educational experience to visit foreign countries. At TNM '91 there were seventy-eight students from twenty Student Branches in twelve countries, fifty-eight came from countries other than the Netherlands and Belgium - Finland, Ger-

many, Hungary, Italy, Poland, Spain, Sweden, Switzerland, Turkey and Yugoslavia.

I would now like to tell you something of the technical and cultural aspects of the meeting, during which we went to Amsterdam, Eindhoven, Heeze, Hengelo, Venla, Twente, Delft, Rotterdam, and Leidschendam in the Netherlands; and Brussels, Lueven, Louvain-la-Neuve in Belgium; we spent the nights either in student's houses or youth hostels. At this point I should like to mention the names of all those deserving our special thanks; there were a great many but I am sure the R8 News Editor would say that the list was too long. I really must thank those from Eindhoven University - they were constantly with us, day and night, in all the places we visited; it will be hard to forget the efforts of Edwin and Robert-Jan to find enough sleeping bags for everyone.

In the Netherlands we visited Eindhoven and Delft Universities where we were given lectures on the Universities and their Student Branches, there was time to see the laboratories and research projects that are being carried on. We were entertained by Océ, a world-wide company known for its advanced products and services for the presentation of information on paper. We listened to talks given by William Boelens and J. Van't Ooster on Océ, and were shown demonstrations in four different research These demonstrations were on document recognition, parallel processing of images and documents, multimedia and high quality printing. Another company on our programme was Holec, which develops and produces systems and components for switching, distributing and controlling electrical energy. There H. Bravenboer gave us information about Holec; we also visited the factory, including the production



In Brussels we made the acquaintance of the European Community and learned much about the aims of the EEC research and educational programmes, amongst which are: Erasmus, Lingua, Comett, Tempus. On the way to Delft from Belgium we visited the famous "Deltaworks", an enormous project which protects those parts of the country that are below sea level, by means of dams, dikes and sluices; the workings of these engines were explained to us. The last company on our itinerary was the Royal Dutch PTT, the main sponsor of TNM'91.

We visited both the PTT Telecom District Headquarters in Rotterdam and their Research Nehr Labs in Leidshendam. There we were able to meet both the engineers and managers from PTT, have a marvellous dinner, listen to a talk given by M.Franke on PTT research and attend short lectures on Island optic LAN with integrated services and integrated optics.

During TNM '91 we also attended a symposium on Telematics at Eindhoven University, where we were able to listen to several speakers from different universities and research centres. Also a few words must be said about the "Student Awareness Conference" held in Leuven; it provided us with the opportunity to learn of many different educational systems throughout Europe, to see the position of electrical engineers and learn about the research facilities



I hope we can arrange such international meetings as frequently as possible and that students from all over Europe, Middle East and Africa will be able to attend and discover for themselves the advantages and privileges of being an IEEE Student Member. Finally I want to thank again, everyone who took part in the organisation of this meeting and I hope that the friendships established there will last for ever. From now on, I believe that a way must be found for Student Branches from other parts of the Region to visit each other more frequently.

Now the last of my announcements. If you have managed to read this to the end without being too bored and you would like to enjoy yourself at a similar meeting: meet new friends, learn something new, visit different places, universities and companies, here is another chance for your. IEEE Studetn Branches in Turkey are orgfanising a meeting, which will be held during the last two weeks in August. The details will be announced as sooon as possible; if you have any questions just contact me or Lulfi Varoglu, Middle-East Technical University, IEEE Student Branch, Electrical Engineering Dept., 06531 Ankara, Turkey. The Turkish students will be very glas to see you.

Region 8 Student Representative: Miss Gozde Bozdagi, Dept of Electrical Engineering, Bilkent University, 06533 Ankara, Turkey. E-mail: bozdagi: @trbilun.bitnet

United Kingdom and Republic of Ireland

Student Activities

Following on from the success of the recent UKRI heats of the Student Paper Contest, a preliminary to entries for the Regional Student Paper Contest, we are now planning an essay contest for second year undergraduate students. We are grateful to British Telecom for agreeing to sponsor this contest, which will take place early next year. The prizes will be £150, £75 and £50 for the first three places. Further details will be given in future issues of Region 8 News.

In the United Kingdom and Republic of Ireland we have established a network of Student Advisers - members of staff in Electronic Engineering and related departments, who can be contacted on IEEE matters and who provide a link with the Student Counsellors. There are now more than 90 Student Advisers based in the Universities and Polytechnics around the country; this has led to an increase in Student numbers of 22% compared with last year. The increase is also a reflection of the excellent value which Student Membership of the IEEE offers.

I would like to take this opportunity to apologise for an error in the last Region 8 News report on the UKRI heat of the Student Paper Contest. Mr. Papadopoulos (the joint winner) is affiliated with King's College London, not University College as stated.

Assistant Student Adviser: Dr. James Gilbert, Electrical Eng. Dept., University of Hull, HU6 7RX. Tel: 0482 465891. Fax: 0482 466666

Co-sponsored Conferences

Papers are invited for the following 1992 conferences co-sponsored by the UKRI Section. Where the "Contact" is listed as IEE, the address is: IEE Conference Services, Savoy Place, London WC2R 0BL, England.

Eighth International Conference on "Software Engineering for Telecommunications Systems and Services". Conference Centre, Florence, Italy -

30th March-1st April 1992. Synopsis deadline: 1st July 1991; paper deadline: 29th November 1991. Contact: IEE.

International Conference on "Information - Decision - Action Systems in Complex Organisations". University of Oxford, England - 6-8th April 1992. Synopsis deadline: 28th June 1991; paper deadline: 6th December 1991. Contact: IEE.

Fourth International Conference on "Image Processing and its Applications". Maastricht, the Netherlands -7-9th April 1992. Synopsis deadline: 12th June 1991; paper deadline: 29th November 1991. Contact: IEE.

Sixth International Conference on "Dielectric Materials, Measurements and Applications '92". UMIST Conference Centre, Manchester, England 7-10th September 1992. Synopsis deadline: 15th October 1991; paper deadline: 15th April 1992. Contact: IFF

1992 World Conference on "Engineering Education". Portsmouth, England - 20-24th September 1992. Synopsis deadline: 31 October 1991; paper deadline 31st March 1992. Contact: EurIng. Dr. Terry Duggan, World Conference on Engineering Education, Faculty of Engineering, Portsmouth Polytechnic, Anglesea Road, Portsmouth PO13DJ, England. Tel: +44705 842012. Fax: +44705 842351.

Conference Co-sponsorship: Dr. N. Adams, Dept of Electronic Engineering, Queen Mary and Westfield College, Mile End Road, London E1 4NS. Tel: 071 975 5337.

MTT/ED Joint Chapter

The first of a series of Joint IEEE/IEE Colloquia, co-ordinated by the IEEE UKRI MTT/ED Chapter and the IEE, was held atLondon University, on "Millimetre wave Trasnistors and Circuits". This was followed by a Chapter-sponsored invited lecture on "Microwave Subsystems for EW Applications", by Professor J. David Rhodes, Chairman & Chief Executive, Filtronic Components Ltd. Future MTT/ED Chapter sponsored events will include:

27th June 1991: Kings College London. Evening "invited talk" on "Technology Development in Digital Microwave Systems: their Effect on Future TV and Radio Broadcasting" by Dr. John R Forrest, Executive Chairman of National Transcommunications. Contact: Dr.J.K.A. Everard, Dept of Elec-

tronic & Electrical Engineering., Kings College London, Strand London WC2R 2LS. Tel: +44718732744. Fax: +44718364781.

23rd-27th September 1991: University of Leeds. Microwave Vacation School Annual Short Course "Microwave Subsystem Design" Organised by the University of Leeds in co-operation with the MTT/ED Chapter. The vacation school will include an invited Chapter-sponsored evening lecture on 25th September. Contact: Dr. J.R.Richardson, Dept of Electronic & Electrical Engineering, The University, Leeds LS2 9JT, England. Tel: +44 532 332010. Fax: +44 532 332032.

Chairman MTT/ED Joint Chapter: Mr. Terry H. Oxley, "Tremont", Back Lane, Halam, Newark, Notts NG22 &AG England. Tel: +44 636 815737/813608. Fax: +44 636 815737.

Portugal

By Dr. J. Costa Freire (Secretary)

Advanced Applications in Energy Management Systems. This workshop was the first in the series "Meetings on Power" organised by the Power Systems Section of the Electrical Engineering and Computer Science Department of the Instituto Superior Técnico of Lisbon, with the support of the Portugal Section. The main objectives were to present, discuss and demonstrate advanced solutions to problems in Energy Management Systems for present and future generations of electrical networks Control Centres.

There were forty participants from five countries (USA, Sweden, Yugoslavia, Spain and Portugal) representing utilities, universities and software-houses. They met for two days of technical sessions and visited the Electricidade de Portugal Control centre, where a new on-line application (RMVC) for Reactive Management and Voltage Monitoring and Control was demonstrated; this was a successful joint project between IST and EDP

The 200 page Proceedings are available from: WAAEMS '90, Instituto Superior Técnico-Seccao de Energia, Av. Rovisco Pais, 1096 LISBOA Codex Portugal. Tel: 351 1 808257, Fax: 351 1 899242.

Section Chairman: Prof. Antonio S.C.Fernandes, Fundetec, R.D.Estefania 78/82, 1000 Lisboa, Portugal



EE



Enquiries concerning IEEE Region 8 Conferences and Conference Co-sponsorship should be addressed to: The IEEE Conference Co-ordinator, Dr. Jacob Baal-Schem, PO Box 1205, Holon 58112, Israel.

Tel: +972 36417 222. Fax: +972 36410 193

Engelberg, Switzerland

10-12 Sept 91

CODING, SIGNAL PROCESSING & TRELLIS MODULATION

Advamced Technology Seminars, Obere Waldstrasse 17, CH8037 Zurich, Switzerland Tel: 01.363.0006 Fax: 01.363.5919

The Hague, The Netherlands 4-8 May 92

CompEuro '92 Computer Systems & Software

Prof. Patrick Dewilde, Delft Univ. of Tech. Dept of E.E., PO Box 5031, 2600 GA Delft The Netherlands. Fax: 31.15.623271

London, England

2-5 July 91

PROBABILISTIC METHODS IN ELECTRIC POWER SYSTEMS

Miss Sheila Griffiths, IEE Conf Services Savoy Place, London England, WC2R 0BL Fax +71 497 3633

Lausanne, Switzerland

9-11 Sept 91

CALISCE '91. Computer Aided Instruction in Science & Engineering

CALISCE '91. Secretariat LEAO, EPFL Ecublens, CH1015 Lausanne, Switzerland Switzerland. Fax: +41.693.4660

Keszthely, Hungary

20-22 May 1992

ICOLIM '92 INT. CONF. ON LIVE LINE MAINTENANCE

A. Szakonye. Secretary General, DEDASZ ELECTR. BOARD, PECS Pf 85 H-7601 Hungary. Tel: 10-711 Fax: 32-633

Athens, Greece

30 Aug, -01 Sept 91

ATHENS POWER TECH NTUA-IEEE/PES

Prof. B.C.Papadias, Nat. Tech. Univ. E.E. Dept., 42 Patission St. 106 82 Athens, Greece.

Florence, Italy

04-06 Sept 91

DIGITAL SIGNAL PROCESSING

Prof. V. Cappelini, Dip. di Ing. Elett Via S. Marta 3, 50139 Firenze Italy Sesimbra, Portugal

16-20 Sept 91

COMPUGRAPHICS '91 Graphics, Visualization Techniques

Prof. H.P.Santo, Civil Eng. IST, Av Rovisco Pais, 1096 Lisboa Cedex Portugal Tel: +351.1.801579. Fax: +351.1.897650

London, England

1-3 JUly 91

ON 'COMPUTING'

Miss Jane Chopping, IEE Conf. Services Savoy Place, London, England, WC2R OBL Fax: +71 497 3633

Noordwikkerhout, the Netherlands 21-25 Oct 91

VDM '91 — FORMAL SOFTWARE DEVELOPMENT METHODS

MC-Consultancy, Stationsstraat 38 NL-3511 EG Utrecht, The Netherlands Tel: +31.30.311038 Fax: +31.30.321967

Rocquen., Yvelines, France 26-28 June 91

H ROBUST CONTROL THEORY AND APPLICATIONS.

INRIA – Relations Extérieures, BP 105 F-78153 Le Chesnay Cédex, France. Tel: 33(1) 3963 5515 Fax: 33(1) 3963 56 38

Sorrento, Italy

7-11 July 91

EIGHTH COMPUMAG Computation of Electromagnetic Fields:

COMPUMAG — Dip. Ing. Elett., Universitá di Napoli, "Federico II", Via Claudio 21, I 80125 Fax: +39.81.616897

Florence, Italy

02-04 Sept 91

MADEP - MATERIALS & DEVICES FOR POWER ELECTRONICS

Prof P. Spirito, Dip. Ing. Elett. Via Claudio 21, 80125 Napoli, Italy

Zurich, Switzerland

and 04-=06 Sept 91

ACM SIGCOM '91

Communications, Architectures & Protocols

Prof. B. Plattner, Technische Informatik ETH-Zentrum, 8092 Zurich, Switzerland Paris, France

9-12 Sept 91

ECOC/IOOC '91 International Exhibition

SEE 48 rue de la Procession F 7501 5 Paris, France. Tel:+33.1.45.670770 Fax:+33.1.40.659229

New York City, USA,

9-11 October 91

ARTIFICIAL INTELLIGENCE APPLICATIONS ON WALL STREET

Roy S. Freedman, Polytechnic University 333 Jay St., Brooklyn, NY-11201 USA Tel: (718)260.3071 Fax: (718)260.3136

Swansea, Wales

17-19 Sept 91

ANALOGUE - DIGITAL and DIGITAL - ANALOGUE CONVERSION

Miss Sarah Campbell, IEE Conf. Services Savoy Place, London England, WC2R 0BL Fax: +71 497 3633

London, England.

26-28 June 91

POWER SYSTEM MONITORING & CONTROL

Miss Jo Gordon, IEE Conference Services Savoy Place, London England, WC2R 0BL Fax: +71 497 3633

London, England. July 1-6, Sept 9-13, & 16-20

WIND ENERGY, DISTRIBUTION SYSTEMS, Generation & Transmission Economics

Pamela Manser, Continuing Education, Imperial College, Sherfield Building, London, England, SW7 Tel: 71.225.86667 Fax: 71.225.8668

Copenhagen, Denmark

03-06 Sept 91

ECCTD '91 Circuit Theory & Design

ECCTD '91. Ins. of Circuit Theory & Telecom 343 Tech. Univ of Denmark, DK-2800 Lyngby. Denmark.

Pisa, Italy

08-12 Sept 91

TIRENIA WORKSHOP DIGITAL COMMUNICATIONS

Prof. Marco Luise, CSMDR - CNR Via Diotisol 2 I-56126 Pisa, Italy

Sweden

By Dr. Anders Derneryd (Secretary)

The Sweden Section takes pleasure in announcing that two of its members have been elevated to the distinguished Fellow grade. We congratulate:

Erik Kolberg, who received the Fellow grade for "Leadership in, and contributions to, the Advancement of Low-noise Microwave and Millimeter-wave Receivers".

Bjorn Wittenmark, who gained the Fellow grade for "Contributions to Adaptive Control and to the Development of Self-tuning Regulators".

Annual Meeting.

The Sweden Section held its annual meeting on 10th January 1991. The Board's report has been mailed to all Section members; the Board was reelected.

Chapter Activities

The Power Engineering Chapter will hold a meeting this autumn at the Swedish Transmission Research Institute in Ludvika. The topic will be: High Voltage Technology Development. Contact: Roland Eriksson on 08 790 7988.

The Electromagnetic Compatibility Chapter is planning an autumn meeting at Statens Profiningsanstalt in Borås. Contact: Peter Landgren on 0586 814 28.

The joint Microwave Theory & Techniques and Antennas & Propagation Chapter is planning a seminar on Design and Analysis of Reflector Antennas this autumn. Contact: Thomas Lewin on 031 67 1091.

The joint Vehicular Technology and Communications Chapter is planning a meeting on mobile communications. Contact: Henry Schefte on 08 719 2159.

Conferences

INTERMAG '93 will be held in Stockholm in April 1984. The 1984 IEEE Vehicular Technology Conference (VTC '94) will be held in Stockholm in April 1994.

Membership Development

There is a large number of Associate members within the Sweden Section. The Board has decided to investigate the reason for such a large figure; all Associate members have been contacted by mail and encouraged to apply for member grade.

Student Activities

Göran Ericsson, Chairman of the Student Branch at the Royal Institute of Technology, participated in the Trans National Meeting '91. The meeting was held in the Netherlands and Belgium. The report on the trip has been received by the Board. The visit was sponsored partly by the Sweden Section.

Sweden Section Chairman: Dr. Piotr Starski, Chalmers University of Technology, Division of Network Theory, S-412 96 Göteborg, Sweden. Tel: 031 72 1734. E-mail: piotr@nt.chalmers.se(UUCP). Fax: 031 72 1561.

From the Regional Treasurer

Dr. Rolf Remshardt



From time to time I should like to report to you on the financial affairs of the IEEE and especially of our Region. In my last report (Nov. 1989) I explained the different kinds of IEEE funds and encouraged you to make use of them: some of you did, many did not.

In a previous report in R8 News (No. 80 - Nov. 1987) I described how we control income and expenditure in the Region and I presented our financial situation at that time. A coloured piechart illustrated the way in which we distribute our funds among the regional services; fig. 1 is an up-to-date

version of the chart, with the expenditure distribution for 1990. In general the distribution has not changed very much; however, the total expenses and the necessary income have grown significantly. Regional expenses exploded from 100 K\$ in 1986 to approximately 260 K\$ in 1990, due largely to the tremendous growth of our membership and to the continuous devaluation of the dollar. Travel expenses of the R8 Committee and Region 8 News are still the most significant parts of our expenditure; together they use more than 50% of our annual budget.

Today I want to share another financial topic with you; the Institute's financial situation, which has become more critical during the last year. The IEEE's previously high liquid cash reserves had to be used during recent years as additional income to fund necessary activities and projects, and by the end of last year the liquid reserves of the IEEE General Fund fell almost to zero. During the past 10-15 years, the variety of IEEE services provided for a permanently growing worldwide membership - some 320,000 in 1990 -

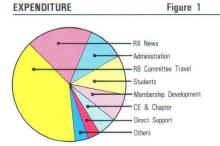
had increased continuously, the total cost of those services had therefore grown significantly. On the income side, however, membership dues have remained almost constant for a long time. Another essential contribution to the increasing expenses is the inflation rate and the very substantial dollar devaluation during the past 15 years. Assuming the purchasing power of the dollar in the seventies, the present IEEE dues would be around \$25-30. In my opinion, all these facts together led to the present situation and help us to understand the recent increase in IEEE dues. The Board of Directors has already introduced many restrictive measures to reduce expenses and so improve the situation for the coming two years.

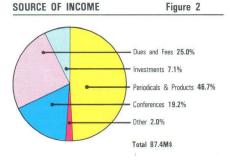
Now a review of the overall IEEE financial operations - you will see where the money came from and how it was spent. Figures for 1989 are from "The Institute"; results for 1990 are not yet available but their distribution will be very similar to that of 1989. In 1989 the total income from all sources was \$87.4 million, with an expenditure of

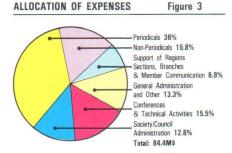
\$84.4 million; an excess of income over expenditure of \$3 million. The sources of income are shown in Fig. 2: \$21.8

million (or 25%) from members' dues and fees, \$40.8 million (46.7%) from periodicals, magazines and other

publications, and \$13.1 million (19.2%) from Conferences.







The allocation of expenses is shown in Fig. 3. A major part, \$43.7 million (52%) was spent on Society periodicals, Spectrum and others, as well as on non-periodicals such as IEEE Press Books, standards and educational material. Conference and Technical Activities accounted for \$13.1 million (15.5%) and Regions, Sections and Branches received support of \$5.8 million (6.8%). The administration of Societies and Councils accounted for \$10.6 million (12.6%), the balance, \$11.2 million, was spent on General Administration. These dollar figures and their accompanying piecharts may give you an idea of the overall financial operation of the Institute.

An even better understanding of what is being accomplished with the IEEE dues is revealed by the "Cost/member" breakdown of the full dues rate. The table below shows in detail, the dollar part of your dues which is used for the various IEEE services.

True figures are available for 1989 but for 1990 we have only the projections. The major part of the dues is spent on Direct Services, i.e. support for Regions and Sections, free publications (Spectrum, The Institute and others); direct communication with you, and for all kinds of technical and educational activities. A minor part goes on administrative, corporate and marketing services. A significant part which should not be overlooked, is the subsidy for partial dues paying members. In my opinion this half-dues payment procedure and its financial consequences for the IEEE, should be a subject for review.

I hope Dear Member that I have again given you some insight into the financial operations both of the IEEE and of our Region. If I have worried you too much with \$ figures, please let me know; I shall reduce that part next time. That's all for today, best regards from your Region 8 Treasurer.

SERVICE COST PER MEMBER - BREAKDOWN OF IEEE DUES

	Cost/member in \$	
Projects	1989 Actual	1990 Budget
Spectrum & The Institute Member Communication and Record Maintenance Region and Section Activities Technical Activities Educational Activities Others	10.15 9.22 8.67 4.87 2.09 0.10	9.00 9.34 8.72 5.04 3.13 2.30
Sub Totals	35.10	37.53
Corporate Activities Administration for Boards & Committees Membership Development & Marketing Administrative Services Public Information Provision for Future Needs	5.91 2.75 2.40 2.57 1.87 0.51	7.23 2.22 2.88 4.09 1.96 0.93
Sub Totals	51.11	56.86
Reserve Funds Interest Income Other	0.00 -6.13 -1.60	-7.09 -4.93 -2.04
Sub Totals	43.38	42.80
Effective subsidy from Full Dues paying members to Partial Dues paying members	13.62	14.20
FULL DUES RATE	57.00	57.00

Regional Treasurer: Dr. Rolf Remshardt, IBM Labs, Dept 3185, Schoenaicher Strasse 220, Boeblingen, Germany. Tel: +49 7031 16 8133. Fax: +49 7031 16 8938

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Dr. I.Avramov, Inst. of Solid State Physics Bulgarian Academy of Sciences Lenin Boul.72, 1784 Sofia, Bulgaria

St. Marlo, France 30 Sept-02 Oct 91

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Dr. Fevzi Belli, University of Paderborn Postfach 1621, Paderborn Germany

Paris, France

29 Oct-01 Nov 92

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IFAC SYR/91, Rockgasse 6, A-1014 Vienna Austria

Torino, Italy

17-20 Sept 91

ICEAA '91 Electromagnetics in Aerospace

Prof. Mario Orefice, Dip. di Elettronica Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

Brighton, UK

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DECISION AND CONTROL

Prof. P.Antsaklis, Dept of Elec. Eng. University of Notre Dame IN 46556 USA

Zurich, Switzerland

18-23 May 92

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Prof. A. Kundig, Institut fur Technische Informatik und Kommunikationsnetze, ETH Zentrum, CH8092, Zurich, Switzerland

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Industry Liaison

By Dr. Hugo Rüchardt

Industry Liaison Representative

Dr. Kurt Richter has appointed me as Industry Liaison Representative on the Region 8 Committee. In spite of a clear recognition of the success of our IEEE Conferences and technical periodicals, particularly in the research field, we still find most of our members in Academia, principally in universities and other educational institutions, where their efforts are naturally directed towards research and development.

The advanced technologies themselves and the markets into which they penetrate are no longer confined to just a few countries, rather they embrace the whole world, whatever may be the state of their cultural and industrial development. This state of affairs should make IEEE membership highly attractive for technical industrial leaders, managers, engineers and scientists throughout the Region. In order to promote this Industry Liaison I propose to put into effect the following programme.

- i) Make optimum use of our Sections and Chapters, supporting them with the right kind of material, programmes and suggestions.
- ii) At Regional level to concentrate on promising projects, such as for example a special membership campaign and the EUROCON '92 Conference.
- iii) Develop a smooth running communication and administrative system which will ensure the success of the project.

If you are aware of any companies that you believe would benefit from an association with this project, or any individuals who might profit from the very considerable pool of knowledge that could be available to them, would you please contact me; I will do the rest. Thank you.

Dr. Hugo Rüchardt, IEEE Industry Liaison Representative, Siemens A.G., Balanstr. 73, DW8000 Munich 890, Germany. Fax: +49 89 4144 5365.

Benelux

By Ir. J. Noordanus (Secretary)

This short report from the IEEE Benelux Section highlights some important events which were discussed at the November 1990 and March 1991 Section Council Meetings.

BOD and Region 8 Meetings.

The Benelux Section, together with the Computer Society, organised the first IEEE Board of Directors meeting in Brussels, May 1990; the Region 8 meeting took place at the same time. This offered a good opportunity for the BOD to meet European leaders in industry, the European Community, several National Engineering Societies and IEEE Sections in Eastern Europe. In this way the international character of the IEEE was brought more into focus. With the increase in members residing outside the U.S.A., the Institute needs to explore ways of increasing both member services and member representation on Committees and Boards. A dinner in the topmost atom of the Atomium, provided by the Benelux Communications Industry, afforded an opportunity to present awards and enhance mutual understanding.

Section Congress, Toronto

A delegation of our Council and a Chapter Chairman visited this very stimulating (internal) IEEE Congress, held in October 1990. Many issues and recommendations were discussed; a personal selection of interest to the Benelux Section:

- 3. Increase publication of applied and tutorial papers in all Institute publications.
- 6. Develop methodologies to increase participation by members from Regions 7-10 in IEEE Society and Institute leadership positions.
- 10.Make available Society outstanding speaker lists, video tapes and other technical programmes to Sections without Chapters.
- 11. Establish an international 800 number to improve accessibility of resources and information on operational procedures for small Sections.
- 13.Initiate and improve interaction between Student Branch and Section.
- 14.Promote a more effective collaboration between IEEE, National Societies and other organisations.

16.Hold more conferences and administrative meetings outside the U.S.

- 21. Provide specific measures of support to members who have been placed in jeopardy as a result of ethical actions.
- 22. Establish a clearing house for conferences with electronic access to information.
- 24.Inadequate E.E. understanding and influence over ecosystems. Publish special editions of SPECTRUM and appropriate journals addressing the topic of ecosystems.

The numbers against these recommendations indicate the voted priorities. There are clear trends from within the IEEE, towards a more international attitude; IEEE could become a truly international technical society, without interfering with the role and aims of National Societies.

Technical Conferences

The Benelux Section is participating in some large conferences.

- * Symposium on Information theory in the Benelux. 23rd-24th May 1991, Veldhoven.
- * CompEuro '92. International Conference on Computer Systems and Software Engineering. 4-8th May 1992 in The Hague

Student Activities

The Benelux student branches developed a lively programme stimulated by the (limited) subsidies obtained from the Benelux Council. The Delft Student Branch organises each year a technical symposium, in July 1990 on Neural Networks; a similar symposium was organised by the Eindhoven branch in January 1991 on Telematics.

Technical trips outside Benelux are being organised year by the branches at the Universities of Leuven, Louvain la Neuve, Liège, Delft, Twente and Eindhoven. An international student meeting took place last February; it was organised by IEEE Student Branches in Benelux. An interesting visit to Belgium and the Netherlands was offered to the foreign participants.

Section Chairman: Professor D. Van Dommelen, Katholieke Universiteit Leuven, Elektrotechnisch Institut, Kardinaal, Mercierlaan 94, B 3030 Leuven - Heverlee, Belgium. Tel: +32 16 220931. Fax: +32 16 221855.

Beyond a Personal Story from Romania

Following 23 years of a professional career, in 1990 I had the privilege of being elected a Fellow of the Institute. This news reached me shortly before my election as Chairman of our Section, which was formed in August of last year. These events ended happily a trying period which was not one of the pleasantest of my life; at no time did I imagine that I would have the honour to be among the nine 1990 Fellows of the Electron Devices Society. I would like to take this opportunity to reveal, beyond personal recollections, some facts which may be less well-known to the IEEE community.

When I am asked how I managed during the past ten years to publish so many scientific papers in professional journals, I can only reply that it was work alone which kept me alive and sane. The concentration on scientific activity sheltered my mind from mounting pressures which stemmed from a darkening of the political landscape. I actually lived as part of a positive feedback process: the more productive I became, the more suspicious my intentions appeared to the authoritative environment; a fact which led to increased isolation and increased pressure to work. This pressure increased following concrete attempts to form an IEEE Section here; and reached a climax in 1986 when I became the Secretary of the Romania Section-in-development. I could not avoid thinking of those of my countrymen who had either been derailed from their professional track or been forced forever to leave their native country.

As a consequence of the isolation forced upon us, only a handful of professionals in the Region and around the world knew that we harboured a Electrical Engineering first-rate school, particularly at the Polytechnic Institutes of Bucharest and Timisoara - my hometown. The success of those graduating from our school, now scattered by fate throughout the world, bears eloquent testimony to the fact that during the past fifteen years, we had one of the highest per capita original contributions in the world. The traditions of our Electron devices school are rooted in the fifties and are epitomised by Professor Dr. Mihai Draganescu's well-known book on the subject, published in 1962; a book which has contributed much to a generation of specialists in Electron Devices. These traditions were kept alive by a succession of dedicated

professors, and they did it in spite of their personal hardships and their growing isolation from the outside world.

The difficult circumstances under which we have laboured during the last decade or so lead me to the conviction that Romania has the potential to make a great contribution to the Electrical Engineering world. Andrei Silard - Romania Section Chairman.

Turkey Students

By Mr. Lutfi Varoglu (METU Student Branch Chairman)

We are very pleased to be able to announce the formation of a Student Branch at the Middle East Technical University in Turkey. Having founded the branch, we believe that it gives us the opportunity to assess and develop students' potential and to assist them in many different ways.

Being in close co-operation with an international Institute such as the IEEE will widen our perspectives, and assist us in the challenging task of reinforcing and motivating scientific activities in a national context. We have always held the belief that productive and efficient scientific activity possesses an institutional and communal character. Along these lines we enthusiastically expect the co-operation of other Student Branches.

Since the foundation of our branch we have organised a technical tour to Istambul and two seminars on telecommunications technology. The number of student members is increasing rapidly. For 1991 our tentative programme is as follows:

i) International meeting of Region 8 Student Members, in co-operation with the Bilkent University Branch, the details will be available very soon.

ii) A short course on VLSI Design, given by the VLSI Design Centre of the Turkish Scientific and Technical Research Association.

iii)Student Paper Contest

iv)Seminars

v)Social Activities.

METU Student Branch Chairman: Mr. Lütsi Varoglu-Karem Karatal, Middle East Technical University, Electrical Engineering Department 0635 Ankara, Turkey. E-mail: e55198@trmetu

Greece

By Professor B.C.Papadias (Section Chairman)

The recently established Communication Chapter in Greece has planned an ambitious programme, mainly in the educational field but also in E-mailing within the Section; a series of technical meetings and a workshop will be held in 1991. The topics will be centered on the Digitisation of Microwave Communication, and Mobile Communication Systems.

Amongst other educational activities in the Section there will be a seminar for postgraduate possibilities, which will be addressed to the graduating students; this will be its third successive year.

The Power Chapter is preparing a new series of educational events and the student Branches are looking ahead to the 1991 Student Paper Contest.

Continuing Education is a project which is strongly supported by the Section, which has been closely associated with its organisation by the National Technical University. There will be a series of research seminars sponsored by the European Community for electrical engineers in industry.

Much of the Section's activity is being devoted to the preparatory work for "Athens Power Tech", an international Power Conference which will be held in Athens from 30th August to 1st September 1993. This will be a joint conference organised by the National Technical University of Athens, the Power Engineering Society, and the Greece Section. The subject will be "Planning, Operation and Control in modern Electric Power Systems"; it will consist of a wide variety of topics covering almost all modern areas of electrical engineering. announcement has already been published and will soon be followed by the first call for papers.

Chapter Chairman: Professor B.C.Papadias, National Technical University of Athens, 42 Pattission st., 10682 Athens, Greece. Tel: +301 3600 551. Fax: +301 3626 792

AWARDS IN REGION 8

By Professor E. Folke Bolinder

1991 Koji Kobayashi Computers and Communications Award

Dr. Martin Reiser shares this honour with another IEEE Fellow; for "Fundamental Contributions to the Theory and Practice of Computers and Communications Systems Performance and Modelling".

Dr. Reiser started his research career at the IBM Zürich Research Laboratory where he accomplished large-scale numerical computations with MESFET. At the Thomas J. Watson Research Centre he carried out research into the computation of queueing networks; here he created QNET4, the first in a series of tool packages which made queueing models amenable to system engineers. From 1986 to 1989 he was Director of IBM Computer Science Department, known for its development of the IBM token ring and high-speed modems.

His discovery, jointly with Dr. S.S.Lavenberg, of Mean Value Analysis marks a turning point in the understanding of queueing networks. Unlike other methods which are algebraic in nature, MVA is based on intuitive laws, which are the key to heuristic extensions yielding solutions to previously intractable problems. Dr. Reiser received the silver medal of the ETH for his thesis, three IBM Outstanding Innovation Awards and the Silver Core Award of IFIP.

1991 Nikola Tesla Award

Dr. Michael E. Poloujadoff is the recipient of this Award for "Contributions to the Theory of Electrical Machinery and its Application to Linear Induction Motors". He has been a professor at the Grenoble Polytechnique Institute for some twentyfive years, during which time he has been an active consultant to the Tunisian University. He was a Distinguished Hooker visiting Professor at McMaster University, Ontario, Canada, and since 1985 has been with the Université Pierre et Marie Curie in Paris.

He developed modern approaches to the modeling of squirrel cage motors, including the influence of harmonic fields and interbar currents, and was amongst the first investigators interested in the numerical solution of electromagnetic field equations and later he defined the basis of the first entirely three dimensional analysis of large transformers. In more recent years Dr. Poloujadoff has been interested in two other subjects: the practical application of Floquet's theorem, which is related to period coefficient differential equations; and the theory of optimisation of electrical machines. His other awards include the Saulees de Freycinet Award from the Academie des Sciences, Fellow of the New York Academy of Sciences and the Silver Medal of the University of Aquila.

1991 Fellows in Region 8

- * Amikam Aharoni. Weizmann Institute of Science, Rehofot, Israel: Theoretical Magnetism
- * Albert Benveniste. Irisa/Centre Inria de Rennes, France. Theory & Application of Adaptive Systems, Identification and Statistical Signal Processing.
- * Georges R. Bienvenu. Thomson-Sinstra ASM, Paris, France. Theory and Implementation of High Resolution Methods in Passive Sonars.
- * Christoph B. Burckhardt. F. Ho-LaRoche, Basel, Switzerland. Diagnostic Ultrasound Imaging.
- * Ruth F. Curtan. University of Gröningen, the Netherlands. Control Theory of Stochastic and Infinite-dimensional Systems.
- * Andrew J. Eriksson. ASEA Brown Boveri, Zurich, Switzerland. Research on the Effects of Lightning and on Improved System Protection.

- * Hans M. Glavitsch. Swiss Federal Institute of Technology, Zurich, Switzerland. Analysis, Control and Operation of Electric Power Systems.
- * Jean-Paul Haton. University of Nancy. Vandoeuvre-Les-Nancy, France. Automatic Speech Recognition.
- * Nordehai Heiblum. Weizmann Institute of Science, Rehovot, Israel. Invention of the Tunneling Hot-electron Transfer Amplifier and its Exploitation for Ballistic Transfer.
- *Giok-djan Khoe. Philips Research Laboratories, Eindhoven, The Netherlands. Single-mode Lightwave Devices and Systems.
- * Erik L. Kollberg. Chalmers University of Technology, Göteborg, Sweden. Advancement of Low-noise Microwave and Millimetre-wave Receivers.
- * Gabriele Saucier. Institut National Polytechnique, Grenoble, France. Logic Synthesis in State Assignment of Finite-state Machines, Test Generation for VLSI and Design of Defect-tolerant Architectures.

- * William Shepherd. University of Bradford, England. Analysis and Design of Power Electronic Circuits in Electric Machine Drives.
- * Andrei Silard. Bucharest Polytechnic Institute Romania. Development of Silicon Power and Photonic Devices.
- * Victor Stefanovic. Siei Peterlongo, Gerenzano, VA, Italy. Development and Practice of Adjustable-speed Drives and Static Power Converters.
- * Rolf Unbehauen. University of Erlangen-Nürnberg, Germany. Analog and Digital Filter Design and Signal Processing.
- * Colin H. West. IBM Research Laboratory, Ruschlikon, Switzerland. Automated Validation of Communication Protocols.
- * Bjorn Wittenmark. Lund Institute of Technology, Lund, Sweden. Adaptive Control and the Development of Self-tuning Regulators.

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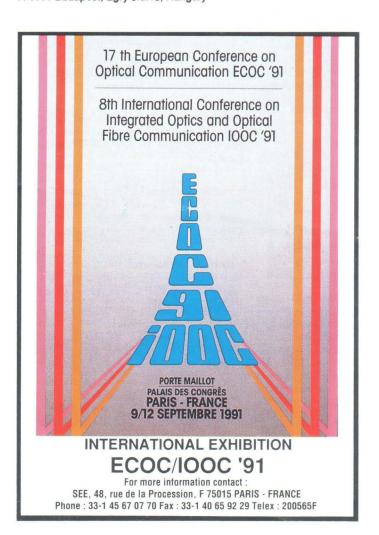
Hungary

By Professor F. Roska

Soon, the Hungary Section will be 5 years old; it was an embryo section in June 1987. With advice from Dr. Hugo Rüchardt a petition for the formation of a Section was signed and in August it was formally accepted as the smallest Section of the IEEE - 51 members - in 1987 this was a breakthrough. The Section has the following committees: Nomination-Awards, Programme, Conferences, Membership Development, Education and Student Activities. The first Chapter (MTT/AP/SS/COM) has recently been formed and two others are in formation. A Hungarian Newsletter has been produced and sent to all members

Many technical conferences have been held in Budapest: Harmonics in PowerSystems, Cellular Neural Networks and their Applications, and shortly the Information Theory Society will organise an international Symposium. It is now possible for membership dues to be converted officially from local to external currencies, an advantage in Membership Development. One of the greatest attractions of the IEEE for our members is the quick access to its publications.

Section Chairman: Professor Gabor Bán, Budapest Technical University, H-1111 Budapest, Egry J.u.18, Hungary



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