Developments in

TELECOMMUNICATIONS AND ENERGY SYSTEMS

By Dr. Jacob Baal-Schem

One hundred and sixty seven papers have been selected from the 230 received. Together with two keynote lectures by eminent scientists and 19 invited lectures to open each of the technical programmes, a prominent feature of this Conference will be its wide ranging technical programme, presented in four parallel sessions.

In the field of Communication Systems, the Programme Committee, under the chairmanship of Prof. Carassa, who recently received the Marconi Award, selected a series of papers to cover the subjects of Space, Switching, Optical Fibres and Terrestrial Radio. Invited lectures will include "Planning for Optical Fibre Installations in Italy" and "Development of Satellite Communication Systems".

Beginning with a lecture on "LAN performance evaluation", the programme on Communication and Computer Networks will also include sessions on Local Area Networks, Implementation and Application of Networks, Design and Planning of Networks, and a session on Multiservice Systems (ISDN). Prof. Decina from Italy will be one of the invited speakers.

Technology for Communications will be covered by sessions on Microelectronic Technology, Radio Frequency Systems, Algorithms and Protocols, and Digital Signal Processing; invited lectures will be given by Prof. Venetrsanopoulos from Canada, and Prof. Bellanger from France. Among the papers received for these sessions is one from Tianjin University in China and another from Taganrog in USSR.

Energy Systems and Networks will include a lecture by the President of the Industrial Electronics Society, Prof. Fumio Harashima of the University of Tokyo. There will be sessions on Power Generation Systems, Power Distribution, Solar Cells, Solar Energy Systems and Alternative Energies.

A Student Paper Contest is planned for the afternoon of 26th March; this together with the special low fee for IEEE students – approximately 40,000 lire – should encourage a substantial student attendance.

MELECON '87 will be held in conjunction with the International Electronics, Energy and Space Exposition (RIENA) to which Conference participants will be admitted free of charge.

The Social Programme for participating and accompanying persons will include a Cocktail Party and a Conference Banquet; Technical Visits will add a touch of Italian hospitality to the rich Conference programme. The magic of the Eternal City, its artistic masterpieces, the museums, the craftsmanship and fashion to be found in its shops, not to mention the excellent wine and food in its restaurants, will all contribute to an enjoyable stay in Rome next.

Further information may be obtained from:

MELECON '87 Secretariat, c/o RIENA, Via Crescenzio 9, ROME, Italy.

MELECON '87
ROME – 24-26 MARCH 1987

News from the Sections
Poland
April–September 1986
By Dr. W. Seruga, Chairman, Poland Section

Membership Development

At the end of July 1986 Section Membership was 75. A Student Branch is being formed, twenty completed applications have been forwarded to the IEEE Service Centre.

Conference Activities

The Steering Committee for the International Symposium on Electromagnetic Fields (ISEF '87) has met twice; on 19th June and 5th September in Warsaw. The conference will take place in Pavia, Italy and is being organised, amongst others, by the North Italy Section and Poland Section of the IEEE. More than 100 papers were selected. The Committee is most grateful for the financial support obtained through Mr. Basil Osborne, Director of Region 8.

Technical Meetings

Sensors for Robot Systems – Professor Paul Regtien from Delft University of Technology.

Electrical Engineering Curricula in Universities of USA and Brazil – Assistant Professor Mariusz Nieniewski from the Electrotechnical Institute, Warsaw.

Computer Vision in Robotics and Elastic Production Systems – Assistant Professor Mariusz Nieniewski from the Electrotechnical Institute, Warsaw.

Plan for Electronization of the National Economy in SRC – Dr. Ing. Vladislav Hudel from the Institute of Mechanical Engineering, Bratislava.

Eddy Currents in Cylindrical Structures due to Rotating Fields – Professor John Tegopoulous from the University of Athens.

New Developments in Computers and their influence on Communications – Professor F. L. Stumpers, Member of the Royal Academy of Science, Netherlands.

Berechnung von Wechselstromkommuatormototen mit nichtsinusformigen Stromen – Professor H. D. Stolting from the University of Hanover.

Other matters

W. Seruga and J. Nasilowski met Mr. R. S. Duggan, Chairman of the IEEE Transnational Activities Committee, in June 1986. Amongst other subject the discussion dealt with the problem of helping other East European countries, and if possible to pass on some of 14 years of experience, especially in the foundation of our Section. A number of letters have been received on this subject. The IEEE Poland Executive Committee takes the view that, (a) there is no possibility of organisational connections between the Poland Section and sections from other East European countries and (b) we are ready to impart our experience to other countries.

Problems

The Poland Section is still in dispute with Field Services concerning the Custody Account Statement for the Section; at the end of March there were important differences. We await the Custody Account Statement for the first half of this year.

Romania

A Romania Section-in-Development within Region 8 has been established as from 1st November 1986.

The Interim Chairman is Professor Mihai Draganescu, Secretary is Dr. Andrei Silard, and Treasurer is Dr. Marcel Profirescu.

Romania members please note that the Postal Address is:
c/o Department of Electronics and Telecommunications,
Polytechnic Institute,
Bucharest, O.P.16, Romania 76206.

Denmark
October 1986
By P. Martin Larsen, Section Chairman

Section Meetings

What Happened to the Energy Crisis? Prof. Bent Elbek, H. C. Oersted Institute, Roskilde.

Transport; Ageing and Breakdown Mechanisms in Solid Dielectrics. P. Pfluger, BBC Research Centre, CH.

Optical Fibre Cables and Interface Modular System. G. Mogensen, NKT Electronics, DK.

Practical Problems in Digital Control of Continuous Processes. Prof. R. Tuschak, Technical University of Budapest.

Electrification of Railways – Electromagnetic Interference in the Signalling and Telecommunication Networks and Cables. Sven Svensson, Professional Consultant, Stockholm.

Application of Optical Fibre Cables in an Electrical Power Network. Processor O. Toennesen, Technical University, DK.

Gallium Arsenide, Key to Modern Microwave Technology. E. C. Niehenke, Westinghouse, USA.

How to Optimise Users' Productivity on Large Computers. Bucky Pope, IBM Watson Research Centre, USA.

Computer Safety: a Technical Management Problem? P. Rhein Hansen, DK.

Modern Danish Electronics – Joint meeting of Denmark and Sweden Sections – NORSILC/NORCHIP, the Nordic VLSI joint Project – Modern Automation.

ALGOL 60 and the Boundary Problem. Prof. Peter Naur, Copenhagen University, DK.

Icelandic Subsection

For the last three years the IEEE Denmark Section has been trying to encourage IEEE members (32 in June 1986) in Iceland to establish a subsection.

Within the EE section of the Icelandic Engineering Association a committee has been appointed in January 1986 to carry out the preparatory work for a subsection.

UKRI
By Dr. B. J. Cory

The United Kingdom and Republic of Ireland Section will be holding its Annual General Meeting on Wednesday, 4 March, at Kings College, Strand, London, commencing at 6 p.m. (tea 5.30 p.m.). Following the AGM a lecture of interest to all Electrical Engineers will be given. Watch out for details in the next Newsletter.

Three members of the UKRI Committee retire at the end of 1986. Anyone interested in joining the Committee should contact the Chairman, Prof. C. W. Turner at King's College as soon as possible (Tel: 01-836 5454 ext. 2438).

First Announcement And First Call For Papers

1988 INTERNATIONAL ZURICH SEMINAR ON DIGITAL COMMUNICATIONS MARCH 8-10, 1988 ETH ZURICH, SWITZERLAND

President: B. Plattner, ETH, Zurich
Chairman: P. Guenzburger, Hasler AG, Berne

Conference Topics

The dramatic progress in the development of medium to high speed switched networks, both local and wide area, raise the expectations that within the time frame of this century a high performance, fully connected infrastructure for the transport of information will be reality. This means that future applications may take advantage of wide area communication facilities that are equal or superior to today's local area networks in terms of transmission speed and service quality. Several factors are responsible for this development:

- successful research and development in the field of fast communication media and devices (e.g. fibre optics)
- the development of cheaper and faster processors
- advances in the techniques of managing large software projects
- progress in the field of public data communications (ISDN, Broadband-ISDN)

However, in spite of these developments, much remains to be done. In particular, the following questions, among others, still await anwers:

- Which applications will really need and use the bandwidth offered by future transport infrastructures?
- A high grade of interconnectivity and a large number of distributed applications and users inevitably lead to increased technical and managerial complexity. Will we be able to handle this complexity? By which means? Are there concepts or tools that help manage such systems?
- Current information processing equipment is not able to cope with future transmission speeds. Which hardware and software techniques should be applied to make available to the user the benefits offered by a performant infrastructure?
- It is obvious that tomorrow's systems are not mainly implemented by hardware. Instead, advanced software techniques and perhaps VLSI design techniques/components will be used. Which impelementation techniques are suitable to handle the complexity, re-usability, flexibility, and required user-friendliness of future communication systems?

While the questions asked above cannot possibly be fully answered during the '88 IZS, it is the intention to focus the attention of contributors and participants to the *main theme*

Mapping New Applications onto New Technologies

This theme emphasizes three important issues, which will serve to classify conference papers:

Applications: Discussion of user aspects of communications systems and specific applications.
Architecture: Treatment of basic concepts of communications systems.
Technology: Hardware and software techniques used to implement applications and concepts.

We solicit papers that fit into one or more aspects of the following classification:

1   Applications
1.1   Services
           Services for business and industry
           Services for private needs (residential use)
           Services for educational institutions
1.2   Applications for managing distributed systems
           Operation
           Administration
           Maintenance
1.3   Applications of distributed data bases
1.4   Applications of distributed operating systems
1.5   Man-machine interfaces

2   Architecture
2.1   Services
2.2   Protocols
2.3   LAN-WAN interworking
2.4   Coping with complexity
2.5   Architectures beyond OSI
2.6   Security Architectures
2.7   Reliability

3   Technology for digital communications
3.1   Computer hardware relevant for communications
           High speed input/output architectures
           VLSI protocol implementations
3.2   Software: Methods and tools
           Specification, validation and testing
           Performance evaluation and modeling
           Design and implementation
           Operating systems interface
           System building (configuration management, reusability)
3.3   High speed communications infrastructure
3.4   New technologies
           Artificial intelligence, expert systems
           Adaptive, self-regulating systems

These topics embrace both public and private telecommunications systems, and cover the range from local area networks (LANs) to wide area networks (WANs).

Seminar Environment

It is planned to organize a one-day tutorial on OSI architecture preceding the 1988 IZS, taking place on March 7, 1988.

Submission of Papers

Novel and previously unpublished contributions to the above mentioned topics are invited. Contributions will be reviewed by the Technical Program Committee for their suitability for the 1988 IZS on the basis of a *10 to 15 page draft full paper* (in English). The paper should clearly indicate its relevance, outline the principal assumptions and methods used and show all results, findings and conclusions; diagrams, photographs, and/or tables ought to be included in the paper. The title page must contain the name, title and affiliation of each author, as well as the full mailing address and the telephone number of the author to whom correspondence is to be sent.

Deadlines

July 31, 1987	Draft full paper required (at Secretariat)
Sept. 30, 1987	Notification of acceptance
Nov. 30, 1987	Camera-ready manuscript required (at Secretariat)

Conference Language

The conference language for all papers and presentations is English. Simultaneous translation to other languages, regrettably, cannot be provided.

Contact Address

The address for submission of the papers and/or for general enquiries is as follows:

Secretariat 1988 IZS
c/o P. Guenzburger
Hasler AG, Abt. 34
Belpstrasse 23
3000 **Bern** 14 (Switzerland)

Tel.: +41-31-632111
UUCP: izs88@ethz.uucp

Mapping New Applications Onto New Technologies

Message from your Regional Director

The IEEE, the world's largest engineering society, has a mandate to enhance the quality of life for all people through the application of new technology, the exchange of information, and the continuing education of engineers, both young and old. I ask all of you to take an active part in promoting these objectives; and to obtain full benefit from your IEEE membership by contributing to and taking part in the activities of our Section and in those of the IEEE Societies, the local Chapters of which form an integral part of the Sections.

My objectives this year included closer relationships and better communication between the IEEE Societies and the Sections of Region 8; and to increase the rate of membership growth. We did, for a short time in mid-1986, reach the number one position as the fastest growing Region (in terms of membership growth). Having been pushed back to second place by our friends of Region 9 Central and South America, we are now trying to get back on top – our task is to inform others of the advantages and opportunities of IEEE membership.

We are looking forward to the formation of new Sections in Region 8. A petition for the establishment of a Section in the United Arab Emirates is being prepared; and there is considerable interest in Section formation in Romania and in Hungary.

Apart from contacts at Section and Chapter meetings and at conferences, this newsletter provides the main channel of communication between the Region and our members. Please make full use of it. We would like to increase the amount of correspondence from individual members – let the Newsletter be your forum.

In addition, let me remind Section, Chapter and Conference representatives to use the Newsletter to best effect, remembering the quarterly deadlines of 1 January, 1 April, 1 July and 1 October for the receipt of material.

The wide circulation of the Newsletter, to engineers in Europe, the Middle East and Africa, makes it a powerful advertising channel, and I would remind any of you who can influence the placing of advertisements of our very reasonable rates.

By the time this reaches you, my two-year term as your representative on the IEEE Board of Directors will be nearly ended – Dr. Hugo Rüchardt, of Siemens at Munich, takes over from me on 1 January 1987, and I wish him every success in guiding our Region to increased levels of activity and to expansion of membership.

BASIL W. OSBORNE

IEEE Video Conferences

Starting with the 4 December 1986 Videoconference the IEEE will transmit broadcasts live to Europe on an experimental basis; the latest date for joining is 10 November. If the December transmission is a success it would be possible to add Africa and the Middle East to the network.

For the IEEE this represents a major step forward in its efforts to serve all its members. Under the network arrangement, the IEEE will license a government office, an IEEE Section, a University or a corporation to be its representative in that country (and to commit itself to the fee of $5,000 (US) for the right to receive the programme).

The licence will permit the authorised agent to distribute the programme throughout the country to colleges, companies, section offices or meetings, etc.; the agent may establish fees to cover its costs for the licence and re-transmission.

The agent may use national television in the country or any other means to distribute the signal and is responsible for all government clearances to permit the reception of the program. The agent is responsible for setting up a phone network in the country to receive calls with questions and to call the broadcast studio with questions for later replies.

The licence agreement includes the right to make, sell and hire tapes of the programs, which are of five hours duration and begin at 06.00 hrs GMT; they cover topics of considerable interest to a large number of engineers. The programs are transmitted in English and the notes also are in English. The 4 December 1986 program is entitled "Data Communications Systems" and will include topics such as Network Security, trends in Local Area Networks, and the emergence of ISDN.

Full descriptions and brochures are now available from Dr. Robert Kahrmann, IEEE Education Department, 445 Hoes Lane, Piscataway, NJ 08854, USA.

The dates and topics for 1987 are: 26 February Optical Discs, 13 May Computer Integrated Manufacturing, 22 September Electronic Packaging, 2 December Micro Contamination Controls.

(Many details would need to be considered, not the least of which is system and re-recording compatibility. – Ed.)

VLSI AND COMPUTERS

CompEuro '87

By Bob Winton

A total of 320 offers of papers from 40 countries has been received for CompEuro '87; the VLSI and Computers International Conference which will be held in Hamburg, Federal Republic of Germany, on 11–15 May 1987. Two-thirds of these papers have been selected for inclusion in the Preliminary Programme, a copy of which is enclosed with this Newsletter.

The highlights of the Conference are: a plenary session of six presentations by widely-known experts, who will provide a survey of the VLSI and computer field; a Technical Symposium on designing systems with VLSI, intended to enable participants to discuss with suppliers' representatives, requirements, experiences

and the latest available systems; tutorials; poster sessions; a Technical Exhibition; industrial visits; and a social programme.

The registration fees are reduced for members of one of the sponsoring societies and for students. There are further reductions for persons registering before 31 January and before 31 March.

The State of Hamburg is supporting CompEuro '87 in a number of ways and has invited participants to a Reception in the historic Town Hall. The Conference is also receiving active support from the airline Lufthansa, which has agreed to act as Official Carriers.

CompEuro '87 is sponsored by Region 8, the IEEE Computer Society, the Verband Elektrotechniker Deutscher (VDE) and the Gesellschaft fuer Informatik (GI).

. . . **HAMBURG** . . . **11–15 MAY 1987** . . .

International Broadcasting Convention

IBC has broken all its previous records, with over 13 thousand participants from 49 countries at the 11th Broadcasting Convention held at Brighton, UK, from 19–23 October 1986.

The Technical Programme generated interesting, informed and lively discussions, with 82 papers presented in 14 sessions. Not surprisingly the chief interest was in High Definition Television, Digital handling of television signals and satellite Broadcasting. The full texts of the papers in the Technical Programme are published in the IBC 86 Convention Publication which can be purchased from the IBC Secretariat.

There was a total of 180 exhibitors at the Convention, 28% of these being from overseas, with all major manufacturers being represented, together with a number of smaller firms manufacturing a wide range of specialisd equipment. The outside exhibits of mobile broadcast and satellite equipment occupied the lower esplanade from the Metropole to the Brighton Centre, and formed a big attraction. Many orders for equipment were announced by exhibiting companies during the Convention.

The next International Broadcasting Convention (IBC 88) will again be held at Brighton in September 1988.

You May Wish To Know

Preparations are being made for the Region 8 25th Anniversary Celebration; its object is to make IEEE activities in Region 8 better known, to discharge engineers' professional responsibility for making the public aware of their work and its implications, and to enable many of those who have made special contributions to Region 8 to be present. The Celebration will be held in Munich, Federal Republic of Germany, on 13–14 October 1988.

The Diners Club has been added to the approved list of credit cards acceptable to the IEEE. This credit card may be used for the payment of dues and for purchasing other IEEE goods and services.

"Parallel Processing and its Applications" is the title of a conference to be held at L'Aquila (near Rome) on 23–25 September 1987. Information from: Prof. Chiricozzi Enzo, Universita' di L'Aquila, Fac. di Ingeneria, 67100 L'Aquila, Italy.

Professor Pieter Eykhoff of the Eindhoven University of Technology has been awarded an honorary professorship at Xi'an Jiaotong University, one the the leading institutions in the Peoples' Republic of China. The award is in recognition of Professor Eykhoff's contribution to measurement and control systems, and his work as Chairman of the China–Netherlands Friendship Society. His book "System Identification, Parameter and State Estimation" has been translated into Chinese.

The XXII General Assembly of the International Union of Radio Science will take place in Tel Aviv from 24 August to 2 September 1987. Further information may be obtained from URSI Secretariat, PO Box 50006, 61500 Tel Aviv, Israel.

The fifth International Symposium on High Voltage Engineering will be held in Braunchweig, FRG, from 24–28 August 1987. Further information may be obtained from Secretariat, German Section of the IEEE, Stresemannallee 15, VDE-Haus Frankfurt 70, Federal Republic of Germany.

The fifth Workshop on Multidimensional Signal Processing (IEEE–ASSP and EURASIP), sponsored by the IEEE Acoustics, Speech and Signal Processing Society, will be held in Noordwijkerhout, The Netherlands, from 14–16 September 1987. Further information from: Dr. J. J. Gerbrands, Delft University of Technology, Dept. of Electrical Engineering 11:30, PO Box 5031, NL-2600 GA DELFT, The Netherlands.

The 1987 Information Theory Workshop will be held at the Grand Hotel Villa Serbelloni, Bellagio (CO), Italy, from 21–25 June 1987. Please contact Professor Ezio Biglieri, Dipartimento di Elettronica, Politecnico di Torino, Corso Duca degli Abruzzi 24, I-10129 Torino, Italy.

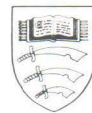# IEEE Annual Report

By R. C. Winton, Secretary Region 8

At the end of 1985 Region 8 was the second largest Region outside the USA, with 15,000 members, just behind Region 10 with 15,900. The UKRI Section was the third largest Section outside the USA, with 2,459 members; Germany (1,408) was eighth, Benelux (1,369) ninth and Switzerland (1,188) tenth.

These figures come from the IEEE Annual Report for 1985, which also shows that the Computer Society is the largest Society, 89,578 members, almost four times the size of the next largest, the Communications Society 23,421 members. amongst the smallest Societies was Professional Communication, a strange reflection on members' interests, since communication is not a specialised subject, but something every engineer uses regularly.

The Board of Directors hoped to pass the milestone of one quarter million members during the Centennial Year, 1984. However, the target was achieved only in 1985; the end-of-year membership total was 273,700. The 15,100 members in Region 8 form 5.5% of the total membership and 6.7% of the membership in the USA.

Our annual subscription has strongly resisted inflation. If it had risen in line with the rise in the American Consumer Price Index it would have been $80.64 in 1985 instead of $52 (excluding the $7 Region 8 assessment); this compares with the $25 which the subscription actually was in 1967.

The IEEE Treasurer reports that our Institute is in a good financial position. Total assets have risen by 20%; the global reserve fund has risen by $7.5 million; investments increased in value by over $3.5 million; investment income increased by $3.8 million.

Of interest to students

A Region 8 Student Activities Bulletin has been produced; its editor is Maurice Paquay, Tech. Univ. Eindhoven, EH103, PO Box 513, NL-5600 MB Eindhoven, The Netherlands.

It represents students in The Netherlands, West Germany, Spain and Belgium; additional editorial material from other Student Branches would be welcome.

Design a Student Membership poster

Would you recognise the current IEEE membership posters (coloured arrows, with KEEP YOUR CAREER GROWING, JOIN IEEE, or the superman-like poster with GET A HEAD START)? Probably you would, because they are older than anyone can remember.

Perhaps you have never noticed them – in that case you will know how appealing they are.

Here is your chance: design a new poster and earn a reward – your poster will be used by Student Branches all over Region 8 and even all over the world.

RULES: Deadline for submission 1 March 1987, size 420 x 297 mm (A3).

Send it to

Mr. D. Poortvliet
Region 8 SAC Chairman
TNO Research Unit
Westeinde Hospital EEG Department
Lijnbaan 32
NP-2512 VA The Hague
The Netherlands.

Letters to the Editor

Transnationalism

New York

Sir – I was surprised and saddened to read your editorial regarding IEEE "Transnationalism". As president last year, and a member of the Board of Directors of IEEE for the past eight years, I consider your remarks to be unkind, unwarranted, irrelevant and, in some references, just plain wrong.

It is just plain wrong to assert that "the US governing bodies do not THINK of the IEEE as a transnational organisation. . .". My own many speeches and writings last year are a testimony to how I think, and I know from experiences that you have not had that I am representative of the Board. In fact, I can think of no Board member of the past eight years who has not expressed pride at the transnational character of the IEEE.

It is irrelevant to refer to USAB positions as evidence that the IEEE is xenophobic: that is explicitly a United States entity of IEEE. I am on record as having opposed their opinion about non-US engineers and I know others who agree with me.

It is both unwarranted and unkind to denigrate the efforts of large numbers of members throughout the world, whose activities and co-operative attitudes I came to know last year, because they have not yet been successful in getting IEEE publications written in languages other than English.

In several places (PRC, Japan and Latin America) I found IEEE papers written in local languages and I encouraged local translation and publication. IEEE has contracts for translation into several languages. On the other hand, acceptance of English as a common language has made it possible for an increasing percentage of conference and publication papers to be submitted by members outside the US – often more than half the papers at technical conferences.

In summary, IEEE "transnationalism" is, like so many other things, "in the eye of the beholder". Fortunately, in my opinion, the founders of the AIEE and IRE and all the IEEE leaders I have known, tried to develop an organization that encompasses all those in our field of interest, whatever their national identity, rather than developing rules and procedures to deal BETWEEN nations. That surely is the way I see IEEE. I trust that the majority of members also behold IEEE that way – and that they always will.

Sincerely
Charles A. Eldon (Immediate Past President)

Paris

Sir – My congratulations on your article in the Region 8 Newsletter entitled "Transnationalism".

I have just written to Mr. Weinschel, like myself an electronic technician living and working outside his native country and where he did most of his studies. I have asked him whether he has read it, and if so what he intends to do to make the mass of American members consider the problem.

The place for that article is on the front page of Spectrum, where Mr. Christiansen usually has some pertinent remarks.

Yours sincerely

Hugh McLachlan

ELECTRICAL & ELECTRONICS ENGINEERS CALENDAR
of CONFERENCES and EXHIBITIONS
in EUROPE, the MIDDLE EAST and AFRICA

No. 11   November 1986

NOVEMBER 1986

November 27–29. LCA '86 – IFAC Symposium on Components, Instruments and Techniques for Low Cost Automation and Applications. Valencia, Spain
Organisers: CEA-IFAC, Politechnic Univ. of Valencia
Sponsor: IFAC
Contact: LCA '86, Dept. de I.S.y Automatica, Universidad Politecnica de Valencia, PO Box 22012, 46071 Valencia, Spain
Deadline: August 15 1986 (Final version)

DECEMBER 1986

December 3–5. IFAC/IFIP/IMACS International Symposium on Theory of Robots. Vienna, Austria
Organiser: Austrian Center for Productivity and Efficiency
Sponsors: IFAC, IFAC/THEORY
Co-Sponsors: APCOM, MOC, MAN, TECH., IFIP, IMACS
Contact: OPWZ, Ing. W. Karner, Rockgasse 6, 1014, Vienna, Austria
Deadline: February 1 1986 (Abstracts)

December 3–5. International Conference on Industrial Power Engineering. London, UK
Organiser: IEE
Sponsors: IMC, IME
Contact: IEE Conference Department
Deadline: June 6 (Full typescript)

December 10–12. 1986 IEEE Conference on Decision and Control (CDC). Athens, Greece
Organiser: IEEE Control Systems Society
Co-operating: IEEE Greece Section
Contact: Spyros G. Tzafestas, Control Systems Laboratory, School of Engineering, University of Patras, Patras, Greece 26500

FEBRUARY 1987

February 24–26. International Conference Revitalising Transmission and Distribution Systems. London, UK
Organiser: IEE
Contact: IEE Conference Department
Deadline: October 1 1986 (Full typescript)

MARCH 1987

March 3–5. 7th International Zurich Symposium and Technical Exhibition on Electromagnetic Compatibility. Zurich, Switzerland
Organiser: EMC Zurich
Sponsor: Inst. of Communications ETH
Co-Sponsor: Swiss PTT
Co-operating: IEEE Switzerland Section, URSI
Contact: Prof. Dr. T. Dvorak, EMC 1987, ETH-Zentrum-IKT CH-8092, Zurich, Switzerland

March 16–18. Conference on "Large Scale Integration", Baden-Baden, FRG
Organiser: VDE/VDI
Sponsor: NTG
Co-operating: IEEE German Section
Contact: Prof. Dr. Ing. E. Lueder, University of Stuttgart
Deadline: 10 October 1986

March 21–24. First Symposium on Electrical Power Systems in Fast Developing Countries. Riyadh, Saudi Arabia
Organiser: King Saud University
Co-operating: IEEE Region 8
Contact: Dr. Abdulaziz A. El-Sulaiman, E.E. Dept., King Saud University, PO Box 800, Riyadh 11421, Saudi Arabia
Deadline: May 15 1986

March 24–26. MELECON '87 – Mediterranean Electrotechnical Conference and 34th Congress on Electronics. Rome, Italy
Organiser: RIENA
Sponsors: IEEE Region 8, IEEE Middle and South Italy, RIENA
Contact: MELECON '87 & 34 Congress on Electronics Secretariat, c/o RIENA, Via Crescenzio 9, 00193 Rome, Italy
Deadline: June 15 1986 (Abstract)

March 30–April 2. ICAP 87 – Fifth International Conference on Antennas and Propagation, York, UK
Organiser: IEE
Sponsor: URSI
Contact: IEE Conference Department
Deadline: 30 November 1986 (Full typescript)

APRIL 1987

April 1–3. Second International Conference on Command, Control, Communications and Management Information Systems, Bournemouth, UK
Organiser: IEE
Co-operating: BCS, IMA, INC, IERE
Contact: IEE Conference Department
Deadline: 20 October 1986 (Full text)

April 7–8. The Fifteenth Convention of Electrical and Electronics Engineers in Israel, Tel-Aviv, Israel
Organiser: IEEE Israel Section
Contact: Secretariat, Israel Section IEEE c/o Ortra, POB 50432. Tel-Aviv 61500, Israel
Deadline: 15 February 1987 (Full text)

April 7–9. Energy Options – Conference on the role of alternatives in the World Energy Scene. University of Reading, UK
Organiser: IEE
Co-Sponsors: EUREL, ACE, BREF, Inst. of Energy, Inst. of Math.
Co-operating: IEEE UKRI Section, IP, ICE, IME
Contact: IEE Conference Department

April 13–15. Eurocrypt 87 – Conference on Cryptography. Amsterdam, The Netherlands
Sponsor: International Association for Cryptologic Research with support from CWI
Contact: Dr. Wyn L. Price, National Physical Laboratory, Teddington, Middlesex TW11 0LW, UK
Deadline: January 16 (Abstract)

April 14–16. Fifth International Conference on Metering Apparatus and Tariffs for Electricity Supply. Edinburgh, UK
Organiser: IEE
Contact: IEE Conference Department
Deadline: September 18 1986 (Full text)

April 29–May 1. ABUJA '87, International Conference on Computers and Communication, Abuja, Nigeria
Organisers: Computer Association of Nigeria
Contact: Prof. S. B. Jaiyesimi, Computer Association of Nigeria, Dept. of Computer Science, University of Ife, Ife-Ife, Nigeria

MAY 1987

May 4–8. CIRED – International Conference on Electricity Distribution. Liège, Belgium
Organiser: AIM
Co-operating: National and Liaison Committees
Contact: Mme. Ch. Lacrosse, c/o AIM, Rue St. Gilles 31, B-4000 Liège, Belgium.

May 11–15. CompEURO '87 – International Conference on "VLSI in Computing Systems". Hamburg, FRG
Organisers: IEEE Region 8, IEEE Computer Society
Sponsors: GI, VDE
Contact: Prof. Walter E. Proebster, IBM Deutschland GmbH, Dept. 3280, 7030-15, Schoenaicher Strasse 220, D-7030, Boeblingen, FRG
Deadline: July 1 (Letter of intent)

May 13–15. The 7th International Workshop on Expert Systems and their Applications, Avignon, France
Organiser: Agence de l'Informatique
Contact: Mr. Jean-Claude Rault, Agence de l'Informatique, Tour Fiat Cedex 16, 92084 Paris–La Defense, France
Deadline: 15 November 1986 (Full paper)

May 27–29. IPAT 87, 6th International Conference on Ion & Plasma assisted techniques, Brighton, UK
Organiser: CEP Consultants Ltd
Contact: IPAT Secretariat, CEP Consultants Ltd, 26 Albany Street, Edinburgh EH1 3QH, UK
Deadline: 31 October 1986 (Abstracts)

JUNE 1987

June 2–4. The First IEE National Conference on UK Telecommunications Networks – Present and Future, London, UK
Organiser: IEE
Co-operating: IERE
Contact: IEE Conference Department
Deadline: 10 November 1986 (Full typescript)

June 15–18. INTELEC 87 International Telecommunications Conference, Stockholm, Sweden
Organiser: IEEE COM
Contact: Dr. Ted Wolpert, Ericsson Power Systems, RISA ABCo, S163 81 Stockholm, Sweden

June 17–19. NASECODE V, Dublin, Ireland
Organiser: IEEE ED
Contact: Prof. John J. H. Miller, School of Mathematics, 39 Trinity College, Dublin 2, Ireland

JULY 1987

July 1–4. CAR 87 – Computer Assisted Radiology, Berlin, FRG
Organiser: IEEE C
Co-operating: TUB
Contact: Michael L. Rhodes, 2730 Pacific Coast Hwy, Torrance, CA 90505, USA

July 27–31. 9th International Conference on Conduction and Breakdown in dielectric liquids, Salford, UK
Organiser: IEEE DEI
Contact: Dr. W. G. Chadband, 91CDL, Dept. of E&E Engineering, Univ. of Salford, Salford M5 4WT, UK

AUGUST 1987

August 24–September 2. URSI 22nd General Assembly, Tel-Aviv, Israel
Organiser: Israel National Committee for Radio Science
Sponsor: URSI
Contact: Secretariat 22nd General Assembly of URSI, POB 50006, Tel-Aviv 61500, Israel
Deadline: 31 October 1986 (Contributed papers)

August 25–28. Sixth COMPUMAG Conference on the Computation of Electrical and Magnetic Fields, Graz, Austria
Organiser: EE Dept. Technical University Graz
Sponsors: IEEE MAG
Contact: COMPUMAG Secretariat, c/o Interconvention, PO Box 80, A-1107, Vienna, Austria
Deadline: 1 December 1986 (Short version)

SEPTEMBER 1987

September 1–4. ECCTD 87 European Conference on Circuit Theory and Design, Paris, France
Organisers: CNET, ENST, EPFL, CESTA
Sponsors: SEE, CNFRS, URSI
Co-operating: IEEE French Section
Contact: Dr. J. Henaff, CNET-DIT, 38 General Leclerc, F-92131 Issy-les-Mlx, France
Deadline: 1 November 1986 (Full papers)

September 2–4. European Conference on Speech Technology, Edinburgh, UK
Organisers: CEP Consultants
Co-sponsors: Alvey Directorate, ESPRIT, BCS, EUREL, IA, IEE, IERE, Inst. of Physics
Contact: Secretariat, European Conference on Speech Technology, CEP Consultants Ltd, 26 Albany Street, Edinburgh EH1 3QH, UK
Deadline: 9 January 1987 (Abstracts)

September 3–4. Workshop on Beam methods for High Frequency radiation, propagation and diffraction – Theory and applications
Organiser: Israel National Committee for Radio Science
Sponsor: URSI
Contact: Beam Workshop Secretariat, POB 50006, Tel-Aviv 61500, Israel
Deadline: 30 November 1986 (Abstracts)

September 9–11. 3rd International Conference on Fault-Tolerant Computing-Systems. Bremerhaven, FRG
Organiser: VDE/VDI
Co-operating: EWICS, AFCET, OCG
Contact: Prof. Dr.-Ing. F. Belli, Hochschule Bremerhaven FB2, Columbusstrasse 2, D-2850 Bremerhaven, FRG
Deadline: 30th January (Summary)

September 13–17. ECOC 87 – 13th European Conference on Optical Communication, Helsinki, Finland
Organisers: CPEF (Consulting Committee of Professional Electroengineer Organisations in Finland), AEEF, SEEF
Sponsor: EUREL
Co-Sponsors: IEEE Region 8, URSI
Contact: A. B. Sharma, ECOC 87, c/o Sähköinsinööriliitto, Merikasarminkatu 7 J 53, 00160 Helsinki, Finland
Deadline: 9 March 1987

September 21–25. ICDCS 87 – The 7th International Conference on Distributed Computing Systems, Berlin, FRG
Organiser: Hahn-Meitner Institut
Sponsor: IEEE Computer Society
Co-operating: GI
Contact: ICDCS 87, c/o Hahn-Meitner-Institut Berlin, Glienicker Strasse 100, D-1000 Berlin 39, FRG
Deadline: 1 February 1987 (Papers)

September 22–25. International Conference on Electric Railway Systems for a new Century, London, UK
Organiser: IEE
Co-operating: IME, IRSE, ICE
Contact: IEE Conference Department
Deadline: 30 March 1987 (Full typescript)

OCTOBER 1987
October 19–21. RADAR 87, London, UK
Organiser: IEE
Sponsors: IEEE AES, EUREL
Co-operating: IMA, RIN

Contact: IEE Conference Department
Deadline: 23 January 1987 (Synopsis)

October 22–27. FORUM 87 – 5th World Telecommunication Forum Technical Symposium on "Telecommunication Services for a World of Nations". Geneva, Switzerland
Organiser: ITU
Contact: Forum 87 Secretariat, International Telecommunications Union, CH-1211 Geneva 20, Switzerland
Deadline: September 1 1986 (Summaries)

JUNE 1988
June 7–9. 1988 IEEE International Symposium on Circuits and Systems. Helsinki University, Espoo, Finland
Organiser: IEEE CAS
Sponsor: IEEE Finland Section
Contact: Dr. Jorma Skytta, Helsinki University of Technology, Dept. of Technical Physics, SF-02150 Espoo, Finland

June 13–17. EUROCON '88 – Eighth European Conference on Electrotechnics. Stockholm, Sweden
Organisers: SER, IEEE Sweden Section
Sponsors: IEEE Region 8, EUREL
Contact: SER, Malmskillnadsgatan 48 A, Box 7087, 10387 Stockholm, Sweden

APRIL 1989
April 25–29. ICASSP 89 – International Conference on Acoustics, Speech and Signal Processing, Glasgow, Scotland, UK
Organiser: IEEE ASSP
Contact: Prof. T. S. Durrani, Univ of Strathclyde, Dept of EE, Royald College Bldg, 204 George St, Glasgow G1 1XW, Scotland, UK

MAY 1989
May 8–12. CIRED – International Conference on Electricity Distribution. Brighton, UK
Organiser: IEE
Co-operating: National and Liaison Committees
Contact: IEE Conference Department

EUREL Acronyms:

A	– Austria	DIF'sE-Gr	– Elektroingeniorgruppen (in Dansk Ingeniorforening)	NEF	– Norsk Elektroteknisk Forening
ÖVE	– Österreichischer Verband für Elektrotechnik	E	– Spain	NL	– Netherlands
B	– Belgium	AEE	– Asociación Electoténica Española	KIvI	– Koninklijk Instituut van Ingenieurs, Afd. Elektrotechniek
SRBE	– Société Royale Belge des Electriciens	F	– France	NERG	– Nederlands Elektronica-en Radiogenootschap
AIM	– Association des Ingenieurs Electriciens sortis de l'Institut Electrotechnique Montefiore	SEE	– Société des Electriciens, des Electroniciens et des Radioélectriciens	P	– Portugal
CH	– Switzerland	GB	– Gt. Britain	–	– Conselho Directivo Nacional/ Ordem dos Engenheiros – Department Electrical Engineers
SEV/ASE	– Schweizerischer Elektrotechnischer Verein/Association Suisse des Electriciens	IEE	– Institution of Electrical Engineers	S	– Sweden
		IERE	– Institution of Electronic and Radio Engineers	SER	– Svenska Elöekroingenjörers Riksförening
D	– Germany	I	– Italy		
VDE	– Verband Deutscher Elektrotechniker	AEI	– Associazione Elettrotecnica ed Elettronica Italiana	SF	– Finland
DK	– Denmark			–	– Aatteellisten sähköinsinöörijärjestöjen neuvottelukunta
IS	– Ingenior-Sammenslutningen I-VD	N	– Norway		

IEEE Society Acronyms:

ASSP	– Acoustics, Speech, and Signal Processing	EI	– Electrical Insulation	OE	– Oceanic Engineering
AES	– Aerospace and Electronic Systems	EMC	– Electromagnetic Compatibility	PE	– Power Engineering
AP	– Antennas and Propagation	ED	– Electronic Devices	PC	– Professional Communications
BT	– Broadcast Technology	EM	– Engineering Management	PEC	– Power Electronics Council
CAS	– Circuits and Systems	EMB	– Engineering in Medicine and Biology	QEA	– Quantum Electronics and Applications
CE	– Consumer Electronics	GRS	– Geoscience and Remote Sensing	R	– Reliability
COM	– Communications	IE	– Industrial Electronics	RA	– Robotics and Automation
CHMT	– Components, Hybrids, and Manufacturing Technology	IA	– Industry Applications	SIT	– Social Implications of Technology
		IT	– Information Theory	SSC	– Solid State Circuits
C	– Computer	IM	– Instrumentation and Measurement	SU	– Sonics and Ultrasonics
CS	– Control Systems	MAG	– Magnetics	SMC	– Systems, Man, and Cybernetics
E	– Education	MTT	– Microwave Theory and Techniques	VT	– Vehicular Technology
		NPS	– Nuclear and Plasma Sciences		

Mailing Addresses

IEEE Region 8 Conference Coordinator – Dr. J. Baal-Schem, P.O.B. 1205, Holon 58112, Israel.
IEE Conference Department, Savoy Place, London, England, WC2R 0BL. Telephone National 01-240 1871 (Ext. 222). International + 44 1 240 1871. Telex: 261176.
IEEE Conference Activities, 345 East 47th Street, New York, NY 10017, USA.
IERE Conference Secretariat, 99 Gower Street, London WC1E 6AZ. Telephone National 01-388 3071. International + 44 1 388 3071. Telegrams: Instrad London England WC1E 6AZ.

ELECTION RESULT

PRESIDENT-ELECT
Drew 18,374   Feerst 18,132   Smith 15,828

EXECUTIVE VICE-PRESIDENT
Buckley 28,791   Read 20,475

CONGRATULATIONS AND WELCOME
Approximately 20% of Eligible Members voted.