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IEEE Region Eight NEWS

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One of the less well known of the Institute's Technical Societies has the title "Professional Communication"; it is easier to say what that title does not mean than what it does mean. "Professional" as it is frequently used in the IEEE, implies some kind of an upmarket trade union activity: conditions of employment, salaries, professional ethics, but that is not what the word is intended to convey in relation to the Society; and "communication" has nothing to do with radio, television or the sending of coded digital messages. This is all most unfortunate, for the P.C. Society has, or should have, a wide appeal to engineers in general; it deserves a great deal more support than it at present enjoys.

The Society is concerned with the way in which engineers communicate with one another, with management, with diverse scientific disciplines and with the lay public, by any means: chalk on a blackboard, speech, pictures, satellites, flags, smoke or the talking drums of Africa. If you mumble illogically to a customer he will not buy your products, and if your writings fail to persuade politicians and the public of the advantages of your proposed engineering schemes, then those schemes will come to nothing and you will join the ranks of the unemployed.

Two examples from the Society's Publications. Miss Rosemary Greene has considered the problem of measuring the benefits, if any, of including Computer Aided Instruction in teaching technicians. She provides statistical evidence to suggest that the technique meets with the approval of both instructor and students, and judged by examination results, it improves the teaching process. No doubt in some intuitive way you all knew that, but she has gone some considerable way

Professional Communication

towards proving it, logically.

Those who have tried to make use of a computer with the aid of the manufacturer's "manual of instruction", will readily agree that those manuals are produced by people who already know for the benefit of those who don't need to know. All too frequently they are written in a daunting, ill defined and inexplicable jargon, whose information content is concealed from all but the expert. Mr. John Carroll and Miss Sandra Mazur have examined this problem, from the point of view both of those unfamiliar with computing, office workers and the like, and of professionals; two groups who need quite a different approach to enable them to "get started" with computers.

Consider the following as a model of bureaucratic clarity on the part of a government department communicating with its

"clients"; it is from an explanatory document accompanying a simplified United States income tax form:

"Your required installment for any payment period is the lesser of 22.5% of the tax shown on your 1987 return or 25% of the tax shown on your 1986 return, if your 1986 return covered all 12 months of the previous year. However, if the annualized income installment for any period is less than the required installment for the same period and you use the annualized income installment in figuring your underpayment, you must add the difference between the annualized income installment to the required installment for the next period. If you also use the annualized income installment for the next payment period, you must add the difference between the annualized income installment for that period

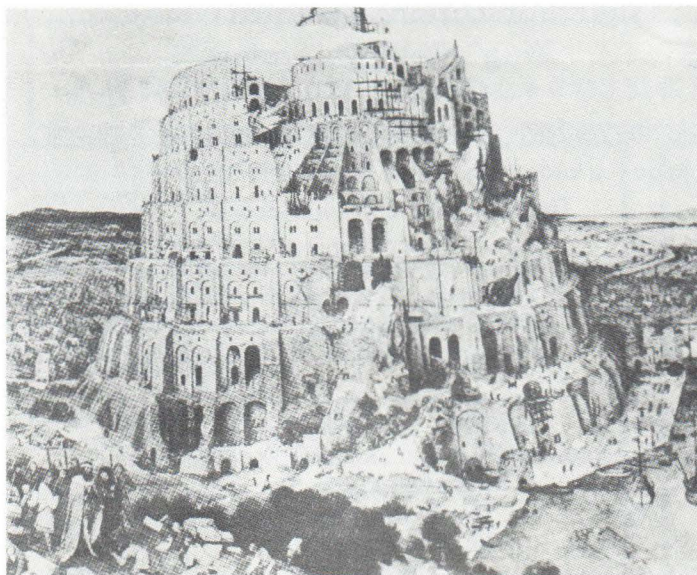
and the required installment (as increased) for that period to the required instalment for the following payment period"

Before Region 8 members sit comfortably back in their armchairs wearing a smug expression, remember that the same problem exists in all our countries. The P.C. Society does not set out to solve the problems of those concerned about the education of the young, but it is concerned about the disturbingly low standards of expression among many of those who are otherwise well educated in their chosen speciality; no editor of a scientific Journal is unaware of the problem, even at professorial level.

The use of statistics in communicating ideas, the proper role of good illustrations in print and on slides, the efficient use of video techniques and how to make the best of modern technology, are all subjects which fall within the scope of the P.C. Society. In 1990, in conjunction with the UKRI Section, the Society will, for the first time, be holding its annual conference outside North America, in the UK. Preliminary information may be obtained from the Chairman of the UKRI P.C. Chapter: Mr. Brian Harrington, 33 Brentwood Rd, Essex, England CM13 3RE; Telephone (+44) 277 218144.

There remains the problem of a more suitable title for the P.C. Society, whose President and Committees are well aware of the shortcomings of the present one. If any member of Region 8 has a suggestion, please write to the address at the top of this page. The P.C. Society regrets that it is unable to help you with your Personal Computer problems.

The Editor.



"The Tower of Babel" - Peter Brueghel (1563) - Kunsthistorisches Museum, Vienna.

Yugoslavia

By Prof. Baldomir Zaje

In August a new joint chapter was established; Acoustics, Speech and Signal Processing, and Circuits and Systems; the Chairman of our new chapter is Prof. H. Babic, Electro-technical Faculty Unska 3, 41000 Zagreb.

When the Yugoslav Section was established in 1971, the main interest was in technical literature, but there are other advantages associated with IEEE membership. Additional chapters are being organised at several centres, for further information you could contact Prof. D. Drajić at EF Belgrade, Prof. A. Szabo at EF Zagreb, or Prof. B. Horvat at EF Maribor; additional names will be provided later.

The Yugoslav Section was successful in its request to organise Melecon '91; in that year the Yugoslav Section will have been formed for 20 years, another cause for celebration. You should plan now to attend Melecon '91, either by presenting a paper or by taking advantage of the tutorial sessions. More information will be made available later.

Sweden

By Professor P. Starki

Following the 50th IEEE Region 8 Committee meeting in Stockholm, the Section was involved in the organisation of Eurocon 88, which was held in Stockholm and attracted more than 400 participants – it produced a surplus of \$25,000.

In September the Section, together with MTT/AP Chapter, organised a membership booth at the 18th European Microwave Conference; about 30 new members were enrolled. The Sweden Society and MTT/AP Chapter would like to thank Al Estes from MTT ADCOM and all MTT members in Europe who volunteered their help for this project. MTT/AP Chapter is very active in Sweden. During this year the Chapter organised nine technical meetings, with over 20 participants on each occasion.

The Sweden Section is growing fast; we have 45 new members – a 7% increase. In total there are 654 members in Sweden (August 31, 1988)
Section Chairman: Dr. J. Stariski, Chalmers Univ. of Technology, S-412 96 Gothenburg, Sweden.

Chapter workshop in Madrid

By Basil W. Osborne

The TAB OPCOM committee of the Technical Activities Board of the IEEE joined with the IEEE Industrial Electronics Society for a colloquium in Madrid between 26th September and 1st October 1988, culminating in a Region 8 Society/Chapters Workshop at the hotel Mindanao.

TAB OPCOM had invited Chapter Chairmen in the Region to take part; and of the 48 attending, over half were actively engaged in running Chapters. The remainder comprised the members of TAB OPCOM under the Vice-president for Technical Activities, Mr. N. Rex Dixon, the Workshop Chairman, Donald Bolle, invited speakers including Society Presidents, the IEEE President-elect, Emerson Pugh and Secretary Wallace Read, and representatives from the Regional Activities Board, from Region 8 and from some Sections.

This was the first occasion on

(A brief explanation of the abbreviations used here will be found in the August 1988 Region 8 News.)

which such an important and significant venture by the Technical Activities Board had taken place in our Region: it demonstrated the close working relationship which now exists between the Technical and Regional activities boards, and the very full awareness of all concerned that the IEEE is a transnational entity. A full report on the workshop is being prepared by TAB.

Workshop topics included the development of increase support by Societies for their Chapters, and in particular to obtain improved communications with them; possible financial support of Chapters by their Societies; the need for closer cooperation with the national Societies, noting that the IEEE Societies need to work through local contact (Chapter and Section) so as to avoid creating friction through lack of awareness of the local conditions; and the need to maintain close RAB/TAB cooperation at all levels.

The third annual short course on MICROWAVE AND MILLIMETER-WAVE MONOLITHIC INTEGRATED CIRCUIT DESIGN

9-10th January 1989
Communications Research Group
King's College London

A two day course is to be held for researchers and engineers wishing to gain a knowledge of the latest techniques in MMIC design.

The course lecturers will include:

Professor Stephen Schwartz	University of California at Berkeley
Dr Donald Estreich	R&D Project Manager, Hewlett Packard, California
Rolf H. Jansen	IEEE TT Distinguished Microwave Lecturer 1987-88
J. A. Turner	Research Executive, Plessey Research and Technology

For further details please contact:

The MMIC course organiser
Department of Electronic and Electrical Engineering
King's College London
The Strand, London
WC2R 2LS ENGLAND

From the Regional Director

Dear Region 8 Colleagues

This is my last letter to you as your Director in Office; at the end of the year Sven-Olaf Ohrvik from Sweden will take over the lead in Region 8.

I have tried to add to the importance of our Region as an integral part of the IEEE and also as an important body in our own geographical area. We have grown substantially in members and have progressed by increasing the number of Sections, Chapters and Student Branches. As a result of several meetings with leading representatives of the Soviet Academy of Sciences, I hope that the first USSR Section will be established in the near future. Our regional conferences have not only increased in numbers but they have also avoided a financial deficit. The expanded Region 8 News is an important service to the Region for all our members and we shall try to improve it even further; the special airmail programme has helped substantially to shorten the delivery time to remote areas.

During personal visits to many of our Sections I have found a

large number of encouraging activities.

In the many Board meetings at Headquarters we have covered almost every aspect of the Institute's activities: elections, bylaw changes, budget problems, administrative improvements, publicity, conferences, Institute policy issues and many others. Of specific importance to Region 8 were the introduction of the IEEE Heinrich Hertz Award and Medal, and the establishment of a transnational office at Headquarters, the latter being made possible only by the exceptionally good cooperation between the four non-US directors and the excellent leadership of the Chairman of the Transnational Committee, Arthur Stern.

The centrepiece of my work as Director has certainly been our special anniversary programme to celebrate 25 years of Region 8 Progress. With the special support of the Israel and UKRI Sections and many other friends from all parts of the Institute, we arranged some extremely interesting workshops on basic technical and organisational

issues. Encouraged by the success of these workshops, we organised in Munich a final "get-together" of some 180 outstanding engineering leaders.

Amongst the matters requiring future effort, I would list the following:

★ A systematic improvement in Society/Chapter relations

★ The development and improvement of the Chapter workshop held in Madrid

★ Due to political circumstances, some of our Sections are encountering difficulties; I think particularly of those in East Africa, Iran and Nigeria. Some sections are too weakly staffed to guarantee stable long-term operations.

★ We are still in the "definitions" phase of our discussions with EUREL. We shall have to explore very carefully if and how the IEEE should support, or even promote, professional activities in Region 8, as seems to be expected by several groups.

Hugo Ruechardt

Electronic Communication

By Mr. R. C. Winton

(Long Range Planning)

Now that electronic means of communication are becoming more widely used, I feel that Region 8 should take an initiative in enabling members to communicate electronically with their Sections and with each other.

I ask all members in Region 8 who are interested in helping other members to communicate with them by telex, fax and/or Ethernet, to advise the Region 8 News Editor of their names, addresses, telex and fax numbers, and/or Ethernet code, which will be published in the News; similar information will be published for the Section Chairmen and the Region 8 Director.

New information will be published as it is received, but since the list may become too large for Region 8 News, those who require a complete list are advised to create their own from the published information.



**Palais des Congrès
Paris
April 12-14, 1989**

Conference programme: April 12-14, 1989

The European Test Conference has been established as a high-quality forum for the discussion of technical developments in electronic product testing, covering all types of product from integrated circuits through to systems, analogue and digital.

ETC89 will feature approximately 50 papers on topics including :

- Design-for-testability
- Built-in self-test
- CAE/ATE integration
- ATE systems and their application
- Failures and fault models
- Test pattern generation

Tutorial programme: April 11, 1989

ETC89 will be preceded by full-day tutorials on : ASIC test techniques (chip and board level); Design-for-test techniques for VLSI; Artificial intelligence and applications to test.

For further information and a registration form contact :-

ETC89, c/o SEE, 48 Rue de la Procession, 75724 Paris Cedex 15, FRANCE

Tel (+33) 1 45 67 07 70

Sponsored by the SEE. Supported by: EUREL, IEEE Computer Society, AICA, GME, IEE.
ETC89 is organised by the European Sub-Committee of the IEEE Computer Society TTTC.

MELECON '89 is gathering momentum. The Technical Programme Committee had the difficult task of choosing some 220 from the 312 papers received. Therefore, in Lisbon, where MELECON '89 will be held from 11-13th April, only papers that have been accepted by at least two reviewers will be presented. They will be accompanied by nine invited lectures by well known experts on the principal topics, and by two Keynote Tutorial Lectures on subjects of general interest to Electrical, Electronics and Computer Engineers. The main topics are:

- ★ Alternative Energy Systems
- ★ Electronics for Telecommunications.
- ★ Educating Engineerings for the Future

In addition to Region 8 and the Portugal Section, the Centro de Electronica Aplicada of the Technical University of Lisbon and the Ordem dos Engenheiros of Portugal are involved in the organisation. Three IEEE Societies have accepted an invitation to cooperate in this Conference: Communications, Power Electronics, and Education.

Professor Madeiro de Silva, Chairman MELECON '89, and Dr. Barbosa, Technical Prog-

ramme Chairman, are confident that more than 400 participants will fill the four parallel sessions at the Forum Picoas lecture halls in Lisbon next April.

An invited lecture by Prof. Carassa from the Politecnico di Milano, will open a series of three sessions on Communications and Broadcasting by Satellite. The sessions on Communication by Optical Devices

and Systems will be introduced by Dr. Knerr from AT&T; he is the Distinguished Lecturer of the MTT Society and will speak on Light Wave Communications. A lecture on Design and Development trends in Commercial Millimetre Wave Radio Systems by H. Meinel of AEG-Telefunken in Ulm, will precede the presentation of papers on Microwave Systems. A total of



Lisbon - "The Bethlehem Tower" - Symbol of mankind's discoveries and scientific achievements during the 15th century.

more than 60 papers will be presented during 12 sessions dealing with recent developments in this field.

Telecommunications Electronics will be covered in 14 sessions dealing with Speech Recognition, Image Filtering, Adaptive Signal Processing, Frequency Hopping, and Spread Spectra. The session on Image Analysis and Coding will begin with an invited lecture on Image Coding Strategies and Applications, by Prof. N. Garcia from E.T.S.I. of the Polytechnic University of Madrid; another introductory lecture will open the session on VLSI.

As usual in MELECON Conferences, Alternative Energy Systems will receive a wide coverage, through two invited lectures and forty eight accepted papers. Dr. D. Swift-Hook, Chairman of the British Wind Energy Association will present recent developments in Wind Energy Generation, and Dr. Y. Chevron of CNRS will give a lecture on Developments in Power Electronics.

In the field of Engineering Education, participants will be hearing about Curricula Development for Electrical and Electronics Engineers, → p8 col 4.

CompEuro '89

International conference on VLSI and computer peripherals

By Mr. R. C. Winton

The International Conference on Advanced Technologies and Trends in VLSI and Computer Peripherals will be held in Hamburg, Federal Republic of Germany, on 8-12th May 1989. Offers of 180 papers have been received from 30 country in Western Europe, North America and the Middle East, and from China, Hong Kong, Hungary, India, Iran, Japan, Korea, Poland, Romania and Taiwan.

The annual CompEuro conference is a major event in the Region 8 calendar. The scope of CompEuro '89 is: VLSI and external memories; VLSI and I/O systems and devices for the human interface; VLSI sensors and controls; VLSI and computer communications; VLSI technologies and trends. The anticipated attendance is 400-500. CompEuro '89 is sponsored by the Computer Society of the

IEEE, Region 8 and VDE (Verband Deutscher Elektrotechniker), and is supported by eight other societies. Lufthansa is the official carrier.

The plenary session speakers are: Dr. G. E. Thomas, Philips Research, Eindhoven - "Optical Recording"; Mr. Robert A. Meyers, IBM Japan - "Printers and Displays"; Dr. Weyrich, Siemens Munich - Sensors; Dr. Ohnsorge, SEL/Alcatel, Federal Republic of Germany - "Broadband Communication"; Prof. W. Liebman, Burlington University, Vermont USA - VLSI Materials; Prof. Niervergelt, University of North Carolina USA - "Surface and Structure of User Interfaces".

The CompEuro '89 programme will include tutorials, a technical exhibition of components, visits and a social programme. Reduced fees are available for early registration and for students.

Denmark



By Professor P. Martin Larsen
One of the Section's most successful meetings was held in August on the theme "Mini-EI, the Future Electric Vehicle for Individual Transport". More than 100 attendees were at the presentation by the inventor Steen V. Jensen, Entrans, Randers, who described the background,

development and production of an electric vehicle for one person and baggage (baby); it has a limited speed and distance (40km/hr - 40km/day). The Mini-EI was introduced in Denmark in 1987 and marketing is now planned for Switzerland and the United Kingdom.

Obituary

It is with regret that we announce the death, at the age of 89, of Dr.-Ing. E. H. Herbert Wuesteney. He was a Fellow of the Institute and was one of the 'fathers of tele-

typewriter technics'. Under his leadership that most successful product 'Teletypewriter 100' was developed; for this he became known throughout the world.

NEW HORIZONS IN ELECTRONIC MEDIA

GENEVA 3 · 8 OCTOBER 1989

ITU-COM 89, the first World Electronic Media Symposium and Exhibition, will be held in Geneva from 3-8 October 1989, under the general theme "Towards Global Information: The electronic media explosion."

Are you a manufacturer, equipment or specialized systems supplier, service provider or user? Or are you a policy-maker, industry-leader, investor, researcher, engineer, scientist?

Are you engaged in electronic media activities, broadcasting, journalism or publishing? Or are you working in the field of computer terminals, software and databases for the mass media?

Whatever your specialization, the current explosive growth of mass media communications technology is undoubtedly affecting your life in some way, either at work or in the home. Maybe you are already fully conversant with the immense scope of the new technologies and the tremendous economic and social changes that will be brought about by the rapid transfer of information. In that case, you are looking for the ideal show-place for your latest products and ideas. Or perhaps you are seeking the appropriate forum for a dialogue with tomorrow? ITU-COM 89 will provide you with the appropriate answer.

All aspects of modern life are becoming increasingly interdependent. There are no longer clear demarcation lines. The International Telecommunication Union (ITU), being the U.N. specialized institution in that sector, has always played a leading and guiding role in telecommunications of all kinds. Mass media communication applications are no exception.

ITU-organized events are unparalleled in reputation and ITU-COM 89 provides that vital first step in focusing world attention on the dynamic growth area of electronic media — a step that is possibly a quantum leap into the Information Age.



Please send more detailed information on:

- ITU-COM 89
- Policy Symposium, 2-4 October 1989
- Technical Symposium, 4-7 October 1989
- Legal Symposium, 4-6 October 1989

Name/Company/Organization _____

Address _____

Tel. _____

Date _____ Signature _____

send to: International Telecommunication Union · ITU-COM 89 Secretariat · Place des Nations · CH-1211 Geneva 20 · SWITZERLAND

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

No. 15

Issued by the INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS Region 8 and printed in the Region 8 News sent free of charge to all IEEE members in the Region. Dr. J. Baal-Schem, the Region 8 Conference Co-ordinator is always interested in receiving information on future Conferences and Exhibitions being held in the Region. Information should be sent to him at the address given below.

Nov 1988

NOVEMBER 1988

22-24. Fourth Conference on Electrical Safety in Hazardous Areas.

London, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

28-30. Conference on Overhead Line Design and Construction.

London, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

DECEMBER 1988

05-09. Workshop on Software Engineering and its Applications

Toulouse, France.

Contact: EC2, 269 rue de la Garenne, 92000 Nanterre, France

06-09. Eurocom 88 – Exhibition & Congress: Business, Public & Home Communications.

Amsterdam, The Netherlands.

Contact: EuroCom 88, RAI Gebouw bv., Europaplein 1078 GZ Amsterdam, The Netherlands.

FEBRUARY 1989

07-09. 2nd Conference on Road Traffic Monitoring

London, UK.

Contact: IEEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

22-24. Conference on Communication in Distributed Systems.

Stuttgart, FRG.

Contact: Prof. O.J. Kuhn, I.O.C.S., Seidenstrasse 36, D-7000 Stuttgart 1, FRG.

MARCH 1989

07-09. Zurich Symposium & Technical Exhibition on Electromagnetic Compatibility

Zurich, Switzerland.

Contact: EMC Symposium & Exhibition, ETH Zentrum-IKT, 8092 Zurich, Switzerland.

13-14. IEEE Conference on Microelectronic Test Structures

Edinburgh, UK.

Contact: Mr. A.J.K. Walton, Edinburgh Microfab. Facility, Kings Buildings, EG9 3JL, UK.

13-15. Conference on Microelectronics

Baden-Baden, FRG.

Contact: Dr. A. Heuberger, IMT Dillenburger Str. 53, 1000 Berlin 33, FRG.

APRIL 1989

02-05. Second IEE Conference on Telecommunications.

York, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

04-07. ICAP 89 – Sixth Conference on Antennas Propagation

Warwick, UK

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

11-13., Melecon '89 Mediterranean Electrotechnical Conference.

Lisbon, Portugal.

Contact: Prof. de Medeira Silva, Ins. Technico Av. Rovisco Pais, 1096 Lisboa Codex, Portugal.

10-14. Conference on Frequency Control and Synthesis

Leicester, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

11-14. 4th Conference on Development in Power System Protection

Edinburgh, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

12-14. Conference on Stochastic Models and Methods in Information Technology

Nuremberg, FRG.

Contact: Prof. Dr. F. Othmer, Philips AG, Thurn und Taxis Str. 10, D-8500 Nuremberg, FRG.

12-14. ETC 89 – European Test Conference

Paris, France.

Contact: Mr. C. Maunder, British Telecom Research Laboratories, Marlesham Heath, Ipswich, IP5 7RE, UK.

25-29. Conference on Acoustics, Speech and Signal Processing

Glasgow, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

MAY 1989

02-05. Third Conf. on Command, Control, Comm. and Management Information Systems

Bournemouth, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

08-10. Conference on Vacuum Electronics and Displays.

Garmisch-Partenkirchen, FRG.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

08-12. CompEuro 89 – VLSI and Computer Peripherals

Hamburg, FRG.

Contact: Prof. W. Proebster, c/o IBM POB80 08 80, D-7000 Stuttgart 80, FRG.

09-11. MIEL 89 – 17th Yugoslav Conference on Microelectronics

Nis, Yugoslavia.

Contact: Paule Tepina, MIDEM, 61000 Ljubljana, Titova 50, Yugoslavia.

23-25. 10th Tunisian French Seminar on Computer Science.

Tunis, Tunisia.

Contact: Prof. A. Mili, Faculty of Sciences of Tunis, Campus 1002 Belvedere, Tunisia.

25-27. Symposium on Electric Energy Conversion in Power Systems

Capri, Italy.

Contact: EECPS, c/o Cath. di Impianti Elettrici, Univ. of Naples, Via Claudio 21, 80125, Italy.

28-01. 16th Annual Symposium on Computer Architecture

Jerusalem, Israel.

Contact: Secretariat, PO Box 3190, Tel-Aviv, 61031, Israel.

29-31. 3rd Workshop on Time-varying Image Processing & Moving Image Recognition

Florence, Italy.

Contact: ENIC, via S. Caterina d'Alessandria 12, 50129, Florence, Italy.

31-02. IPAT 89 – 7th Conference on Ion & Plasma Assisted Techniques.

Geneva, Switzerland.

Contact: IPAT Secretariat, c/o CEP 26, Albany St., Edinburgh, EH1 3QH, UK.

JULY

03-06. Seventh Conference on Software Eng. for Telecommunications Switching Systems.

Bournemouth, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

11-14. Sixth Conference on Num. Analysis of Semiconductor Devices & Integrated Circuits.

Dublin, Republic of Ireland.

Contact: Prof. J. Miller, Dept. of Mathematics, Trinity College, Dublin 2, Republic of Ireland.

18-20. Third Conference on Image Processing and its Applications.

Warwick, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

AUGUST

21-25. 10th International Conference on Noise in Physical Systems.

Budapest, Hungary.

Contact: Prof. A. Ambrozy, Technical University H-1521 Budapest, Hungary.

SEPTEMBER 1989

03-07. ECOC '89 – 15th Conference on Optical Communication.

Goteborg, Sweden.

Contact: Mr. P. Andrekson, Dept of Elec Meas., Chalmers Univ, S-412 96 Goteborg, Sweden.

05-08. ECCTD 89 – European Conference on Circuit Theory and Design.

Brighton, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

20-22. Symposium on Electromagnetic Fields in Electrical Engineering.

Lodz, Poland.

Contact: Prof. A. Krawczyk, Electrotech. Inst. Pozaryskiego 28, 04-703 Warszawa, Poland.

25-27. Conference on Main Line Railway Electrification.

York, UK.

Contact: IEE Conference Dept., Savoy Place, London, England, WC2R 0BL.

OCTOBER 1989

03-05. Carnahan Conference on Security Technology.

Zurich, Switzerland.

Contact: Pieter de Bruyne, ETH-Zentrum-IKT CH-8092, Zurich, Switzerland.

03-08. ITU-COM 89. 1st World Electronic Media Symposium & Exhibition.

Geneva, Switzerland.

Contact: ITU, ITU-COM Secretariat, Place des Nations, CH1211, Geneva 20, Switzerland.

10-12. 1989 Journées d'Electronique on Artificial Neural Networks.

Lausanne, Switzerland.

Contact: Sec. Journées d'Electronique, EPFL-Ecublens CH-1015, Lausanne, Switzerland.

APRIL 1990

17-20. INTERMAG '90.

Brighton, UK.

Contact: Courtesy Associates Inc., 655 15th Street, N.W. Suite 300, Washington, D.C. 20005, USA.

MAY 1990

07-09. CompEuro 90 – Computer Conference.

Tel Aviv, Israel.

Contact: Conference Secretariat, c/o ORTRA, POBox 50432, Tel Aviv, 61500 Israel.

13-17. Conference on Applications of Industrial Electronic Systems.

Jerusalem, Israel.

Contact: Conf. Sec., c/o ORTRA, PO Box 50432, Tel-Aviv 61500, Israel.

Mailing Addresses

IEEE Region 8 Conference Coordinator
Dr. J. Baal Schem, PO Box 1205,
Holon, 58112, Israel.

IEEE Conference Activities.
345 East 47th St., New York,
NY 10017, USA.

Egypt

By Prof. Abdel-Latif I. Ahmed

1988 Meetings:

★ 6th January – Computer Chapter. “The Development of Arabic Software” by Dr. M. Hashish.

★ 24-25th February – AP & MTT Chapter. Workshop on “Fading Phenomena on Microwave Terrestrial Links”.

★ 20th March – Section Meeting. Dr. H. Ruechardt, Region 8 Director.

★ 13th April – AP & MTT Chapter. Field Exposure near Power Frequency High Voltage Installations” by Professor Dr. Hussein Anis.

★ June – AP & MTT Chapter. Workshop on “Microstrip Circuits and Antennae”.

★ July – Computer Chapter. “Computer Networks” by Eng. Safwat El-Nahas”

★ August – Computer Chapter. “Expert Control Systems” by Dr. Raafat Asfour.

★ October – Computer Chapters. “Intelligent Planning Techniques” by Dr. Osman El-Desouki.

Planned Meetings:

★ November – Power Chapter and Computer Chapter. “Determination of an Electrical Network Configuration out of Syntax and Values of a Data Language by means of Digital Computers”.

★ December – Second International Workshop on Methodology for Complex Systems with Applications to Communications Systems”.

★ December 1988 – Computer Chapter. “Expert System for VLSI design” by Dr. Hamed El-Semary.

A new Chapter of the Power Engineering Society was formed and has been approved by Headquarters.

Special efforts are being made to increase IEEE membership; liaison officers have been appointed in universities and industrial and electrical companies. We expect that membership will increase soon to more than 300.

Greece

By Prof. Basil C. Papadias

Membership continues to grow in the Section and is now approaching 500 (494 in August last). One technical meeting was held in June. The Cyprus subsection of the Greek Section has been approved and has been in operation since July, with Mr. A. Constantinou as the Interim Chairman.

The future activities of the Section are now being considered, including the establishment of two new Chapters in Microwave Theory and Techniques, Control Systems, and one Student Branch is being formed in the University of Patras.

Since continuing education is always a major objective of our Section, educational activities and access to information, constitute a permanent concern for our administrative council.

Section Chairman: Prof. Basil C. Papadias, Dept of Electrical Engineering, National Technical University of Athens, 42 Patission Str., Athens 106 82, Greece.

Regional Activities Board – suggestion programme.

By Mr. R.C. Winton

The Regional Activities Board has taken an initiative to improve its services to members in Sections, Subsections and Student Branches. It asks members to submit suggestions for improvements; these it will act on whenever practicable.

I ask members please to send suggestions to me, since I have been appointed Region 8 Coordinator. I shall study each suggestion carefully before sending it to the Co-ordinating Committee in U.S., which is responsible for considering all the suggestions from IEEE members, globally. I look forward to hearing from you.

Mr. R.C. Winton, 224 Creighton Avenue, East Finchley, London, England, N2 9BD.

Obituary

Robert Frederick Oxley

Frederick Oxley came into the infant Electronic Component Industry in 1928 and in 1942 founded the Oxley Developments Company carrying out Research, Development and Manufacture of the highest quality electronic components, principally for the Army, Navy and Air Force. In the post-war years the range of products widened to include devices for civilian use. His policy was to pro-

duce high quality components, to be self sufficient wherever possible and to be innovative. He had more than 100 Patents, while his staff took out many others. For a small company he employed an unusually large number of fully qualified professional staff, who carried out pioneering research work over a wide field, especially in ceramics. This led to the production of special components used by the Defence Services of NATO,

including recently, ceramic packaging for GaAs as well as night vision devices.

The principal Laboratories and Manufacturing facilities are at Ulverston in England but in 1976 Oxley Inc was established with Laboratories and a Production Unit now in operation in Branford, CT, USA.

Mr. Oxley was a man of wide culture and encyclopaedic knowledge. He had a great ability to select, guide and encourage his

staff and this together with his insistence that nothing short of the very best was good enough, gave him and the products that he made, a worldwide reputation. He was admired, respected and liked by all who knew him. He was a member of the IRE since 1935 and a Senior Member of the Institute since 1945.

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25th anniversary highlights

The 25th Anniversary of the foundation of Region 8 was celebrated in Munich. Amongst the distinguished guests were the Presidents of several national electrical engineering societies, members of the Technical Activities Board Operational Committee and Dr. Russell Drew, President of the IEEE; the Chairman was Dr. Hugo Ruechardt, Director of Region 8.

Following the opening fanfare and an introductory address by Dr. Drew, came the presentation of awards, details of which will be given in the next issue of Region 8 News.

The general theme of the celebratory lectures was "Engineering in Society", the three principal contributions being "The Technical Means to Meet the Challenge of Flight" – Dr. J. P. Bateman, "Technical Challenges Leading into the Third Millennium" – Prof. Dr. Hans Gunter Danielmeyer, and "The Technological Revolution and the Future of the Third World" – Prof. Dr. U. Colombo.

of computer are used for electrical control, they have dissimilar redundancy, each type being manufactured by a different supplier, using dissimilar software and hardware and different major components. Physical separation between cable looms to the main computers. The use of metal shielding and twisted wires for protection against lightning strikes. Multiplexed and segregated electrical power sources. A fascinating lecture which would do much to allay public concern if, in a suitable form, it were to be presented to a wider audience.

Professor Danielmeyer pointed out that we shall need to model increasingly larger sections of the world on a computer and in an increasingly elaborate form, and also that the path from homogeneous microelectronics to heterogeneous microsystems has the potential to revolutionise the field of measurement and control. High temperature superconductivity, after a long period of stagnation, has recently achieved a significant break-



Dr. Hugo Ruechardt receives his 25th Anniversary Certificate from the IEEE President

Dr. Bateman, clearly a practical engineer, emphasised the considerable time required to develop and test a civil aircraft, the substantial advantages which have flowed from the introduction of digital electronics into aircraft and the very great design and manufacturing effort which is devoted to all aspects of reliability, safety and performance; all three of these latter characteristics are interlinked:

- ★ An unsafe aircraft would not be allowed to fly.
- ★ An unreliable vehicle no one would use.
- ★ A bad performing vehicle no one could afford.

Among the features contributing to safety are: Two types

through. A major task for the future is to provide:

- ★ larger and faster digital systems
- ★ provable correctness of software
- ★ higher density on a chip
- ★ new synthetic substances with very specific properties.

There must exist an open intellectual interdisciplinary atmosphere to examine unorthodox ideas, and that will make R & D more difficult. Our care for social life, for our natural environment and for our personal individualism may eventually be found to be more important than all other considerations.

Professor Colombo pointed out that the ability of developing

countries to derive benefit from the new technologies, faces one serious stumbling block. They seem to permeate effortlessly the economic and production systems of the world, but are not available "off the shelf"; they have to be absorbed, metabolised, mastered and controlled. Their application calls for a pre-existing capability to insert new ideas, new practices and new elements into a flexible system. In the majority of developing countries this simply does not exist. By introducing new technology into the Third World it is important to ensure that there is no impairment of existing local cultures.

The traditional role of the third world countries is as suppliers of raw materials, exported to be processed elsewhere.

Without the capacity to undertake research and apply it to their real needs, they will be deprived of the opportunity to exploit their resources. This is to say that the most important resource today is human intelligence, creativity and ingenuity and that therefore education and training must be the number one priority in any sound development strategy. Science and technology can be made to help such problems as deforestation, overgrazing of the land, excessive depletion of surface and ground water resources, and the control of population growth.

All the speakers are to be congratulated on the clarity with which their lectures were delivered. Our thanks are due to Dr. Ruechardt and his hard-working secretary; their excellent organisation, sometimes in the face of considerable difficulties, contributed much to the success of these 25th Anniversary events; the organisers of the 50th Anniversary will find it hard to do better.

G.H.B.

Poland

By Professor W. Seruga

The Steering Committee of the International Symposium on Electromagnetic Fields in Electrical Engineering (ISEF '89) met in September. One hundred and thirty papers have so far been submitted, 75 from abroad; 108 have been accepted.

Between May 88 to October 88, seventeen technical meetings were organised, making thirty two since the beginning of the year. A Circuits and Systems chapter is being organised.

Melecon '89

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Information Technology Education and University/Industry Interactions. They will become acquainted with the experience of the Bilbao University of the Basque Country on using Artificial Intelligence tools in Curriculum Development, with trends in EE Education in Portugal, as well as with the development of Optics teaching in a well known Brazilian school of Engineering. This topic will be preceded by an invited Lecture by Prof. Braustein of Tel-Aviv University on Problems in Curriculum Development, and by another invited lecture by Dr. J. Henaff, Chief Engineer of the CNET in Paris, on Industry and University Interactions.

An intensive Student Programme will be prepared under the leadership of Horacio Ramos, Chairman of the Portugal Student Branch, other Region 8 Branches are invited to contact him. This programme will culminate in a Student Paper contest, where the best contributions will be presented orally before a jury.

As to the Social Programme, a reception at the Lisbon Town Hall is planned and there will be a Conference Dinner. All participants, and especially accompanying persons, will enjoy the charms of Lisbon, its historic monuments, Portuguese cuisine and the many attractions which Portugal has to offer.

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