

IEEE Region 8 News

No 87 - November 1989

Europe, Middle East and Africa



Editor

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IEEE REORGANISATION

by Professor Sven-Olof Öhrvik - Region 8 Director

The Board of Directors decided late last year that a high priority should be given during 1989 to a review of the Institute's administrative organisation. With the support of an outside consulting firm "Cresap", several studies were initiated; their results suggested that the rapidly increasing number of members would best be served by a reorganisation of the IEEE administration. The new structure is centred around three Associate General Managers responsible for: volunteer services, technical programmes, and finance and administration. The changes will be implemented gradually during 1990.

Of more direct interest to our Region is probably the recently presented proposal for a drastic restructuring of the volunteer organisation. This proposal was developed in June 1989 by an ad-hoc committee chaired by Region 5 Director, Mary Alys Lillard; it presented its report at the August meeting of the B of D. Preliminary discussions at this Board meeting indicated a majority for the concept, but also that a thorough discussion and evaluation of the details were needed before a final decision could be taken, perhaps in about one year's time; a full report of the proposal is given in the October issue of the "Institute". I shall therefore give here only a short review and concentrate on those aspects that seem most important to our Region.

One of the main background factors is the gradually increasing importance of IEEE international affairs. Membership outside

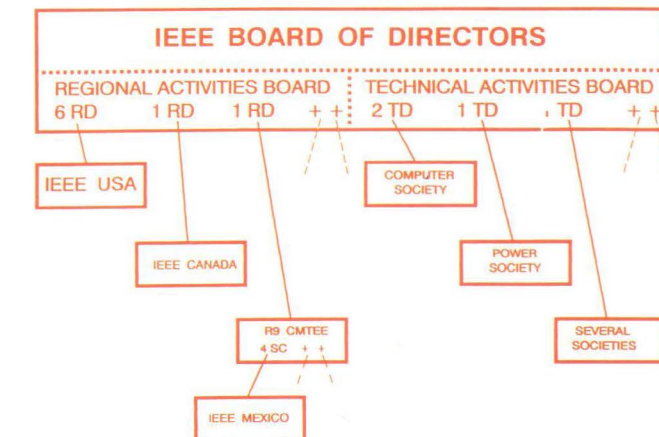
the USA is increasing 5 times more rapidly than inside the USA, in addition there seems to be a need to adapt the IEEE organisation to the rapid changes in technical and market developments external to the USA. An example from our Region is the approaching 1992 changes in the European Common Market, which will have a considerable impact on objectives and operations of the regional and national engineering organisations in this part of the world. On the other hand about 80% of the IEEE members live within USA. Many of those members value the "professional activities" of

professional and other primarily USA activities without day-to-day control from the IEEE, which could then give more attention to international problems, including a closer cooperation with Local Societies outside USA. If local members so wish, geographical entities similar to IEEE-USA could be established in other parts of the world. Examples mentioned in the report are IEEE-Canada and IEEE-Mexico.

One controversial issue is which activities should be considered primarily of local USA

Even if I find the concept of this restructured IEEE valuable in principle, it seems of very limited direct value to Region 8. The key concept of the proposal is the new geographical entities, which would be of interest only in areas of the world where the local IEEE organisation is strong and active and also the major Electrical Engineering society. This does apply anywhere in Region 8. In the countries where we have strong, active sections they are never the less much smaller than the National Society and if we are not very careful, this key concept could well make our cooperation with the National Societies more difficult; the invitation to form National or Regional IEEE Sections could be interpreted as part of an IEEE strategy of expansion and world domination.

What I think is missing, is a parallel activity of formulating an international policy with a concrete implementation plan, defining goals and objectives and suggesting ways of interacting with Electrical Engineering bodies outside USA. It would not be an easy task, as the world external to the USA is much more complex and differs greatly between regions. Without such an international flexible policy, I am pessimistic about the long range possibilities for the continuation of our present record growth within Region 8 and our ability to become an accepted member of the complex but vital European engineering society of post 1992. Perhaps it would have been better to start by first defining the goals and objectives of an international reorganisation, before defining the best organisational structure.



IEEE which would be provided by the proposed US Activities Board "IEEE-USA".

The key concept of the restructuring plan is to place the primarily international and technical activities in one organisation and the "professional" USA activities in another organisation - Fig 1. A stronger and more autonomous IEEE-USA would be given considerable freedom to deal with the

interest and which are of a more world-wide nature. Difficult activities in this respect are standards and education. The solution might be to divide these activities between IEEE and IEEE-USA. Another controversial issue is which interests should have direct representation on the IEEE-B of D. Here a compromise seems necessary, since it is a general feeling that the present B of D is too large.

North Italy

By Professor Vito Monaco

Giovanni Giorgi Meeting A successful historical Meeting to celebrate the 50th Anniversary of the introduction of the Giorgi System was held in Turin, Italy on 21st and 22nd September 1988. Wellknown American and European scientists took part and there were lectures covering the many historical facets of the System and its development.

The Proceedings of the Meeting are not being printed, a copy of which will be sent free of charge, by surface mail, to any applicant. (If overseas parcel mail is requested, a contribution of \$20 US is required)

Please write as soon as possible. The address for orders is: Prof. Claudio Egidi, Dept. Elettronica, Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129 Torino, Italy.

Section Chairman: Prof. Vito Monaco, North Italy Section IEEE, Viale Risorgimento 2, 40136 Bologna, Italy.

Poland

By Professor A. Filipkowskia

On June 8th the new Chairman, Vice-chairman, and Secretary/Treasurer of the Poland Section were elected; the new Executive Committee was nominated.

Chairman	Professor Andrzej Filipkowski
Vice-chairman	Professor Zbigniew Ciok
Secretary/Treasurer	Docent Zbigniew Czyz
Past Chairman	Professor Wieslaw Seruga
Awards and Promotions	Professor Adam Smolinski
Student Branch Counselor	Professor Andrzej Sowinski
Newsletter Editor	Professor Bohdan Mroziewicz
Members Affairs & Library	Docent Ryszard Jachowicz
Meetings	Dr. Wieslaw Dudek
Professional Activities	Docent Jan Nasilowski

The Section now has 125 members, an increase of 18%. Since April 1989 sixteen technical meetings have been organised.

On September 20th-22nd the International Symposium on Electromagnetic Fields in Electrical Engineering (ISEF) took place in Lodz, Poland. It was sponsored by the Poland Section of IEEE. There were 106 participants - 43 from abroad - and eighty papers were read.

On October 17-20th the 12th National Conference on Electronic Circuits and Network Theory will take place in Rzeszow, Poland; this too is sponsored by the Section.

The Chairman took part in the Region 8 Committee Meetings in Budapest and Vienna.

The IEEE Student Branch at the Technical University of Warsaw has now seventeen members (15% increase) and under the chairmanship of Mr. Lukasz Brud it has had a very dynamic development. The principal success is a broad international student exchange.

Section Chairman: Prof. Andrzej Filipkowski, Warsaw University of Technology, Nowowiejska 15/19, 00-665 Warszawa, Poland. Tel: 253709. Tx: 813307. Fax: 295968.

Yugoslavia

By Professor Baldomir Zajc

With the help of our IEEE Section quite a number of conferences were organised this year:

- In June, the Sixth International Symposium on Networks, Systems and Signal Processing - ISYNT '89 - was held in Zagreb. In addition to 100 papers in twentyfour sessions, 5 tutorials were given by leading scientists in this field. A symposium of this kind is organised every four years.

- In September there was the Nineteenth Annual Meeting of the International Continence Society, where medical and electronics specialists, more than 600, discussed new technologies in urology.

- An International Seminar on Intelligent Measurement Systems and Equipment - ISEMED '89 - was held in October; there were nineteen papers and a round table discussion on "Metrology in Europe '92".

- A Symposium on Telecommunications - YUTEL '89 - was one of twentythree such annual symposia, the last two conferences taking place in Ljubljana at the same time as the Electronic equipment exhibition.

- On October 11-13th the First International Modular-2 Conference was held at Bled, where participants took part in a workshop; there were also both invited and submitted papers. I had the impression that Modular-2 programming is used both professionally and as a relaxation for this very enthusiastic audience.

The CAS/ASSP Joint Chapter was organised last year by the Chairman Prof. H. Bubic at the Electrical Engineering Faculty in Zagreb. In addition, approval was given for the MTT Chapter, the Chairman for which is Mrs. B. Zokanovic, Institut of Primjenu Fiziku pp-58, 11071 Novi Beograd

Two petitions have been signed: 1. For an Electronic Devices Chapter, with Professor P. Biljanovic at the Faculty for Electrical Engineering in Zagreb as coordinator, and for a Communications Chapter with Dr. M. Zagodic, Iskra Telekom, Ljubljanska 24d, 64000 Kranj, as its coordinator.

Chapters are units within IEEE Sections and are formed to serve the specialised technical interests of Society members, and to coordinate these with the local activities of the Section and the broader activities of the parent Society. The Chapter Chairman is the focal point.

Enclosed with this issue of Region 8 News you will find a **Melecon '91** Call for Papers form. This is for your future planning - think about it! Each participant will work in a highly specialised field according to his own interest, will present his own work, attend invited and tutorial lectures, and make contacts in specialised and interdisciplinary fields.

Section Chairman: Prof. Baldomir Zajc, Fakulteta za Elektrotehiko, Trzaaka 25, 61000 Ljubljana, Yugoslavia. Tel: +38 61 265 161. Tx 31573 EIEFAK YU. Fax: +38 61 264 990.

IEE and IEEE Publications on Discs?

The Institution of Electrical Engineers (UK), and the Institute of Electronics & Electrical Engineers, have entered into a joint agreement to create and test an experimental CD-ROM image data base system for IEE & IEEE publications.

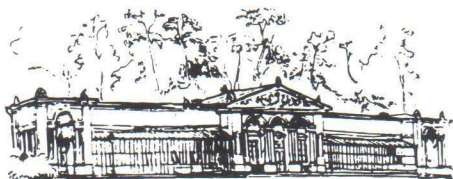
The aim is to make available the complete publications of both organisations in an easily accessible form. Some 200,000 pages of text can be stored, any of which can be recalled using the standard INSPEC searching terms.

Twelve test sites have been selected, including Imperial College of Science & Technology, London, and The General Electric Company Hirst Research, Wembley, England. Selected articles can be produced on laser printers.

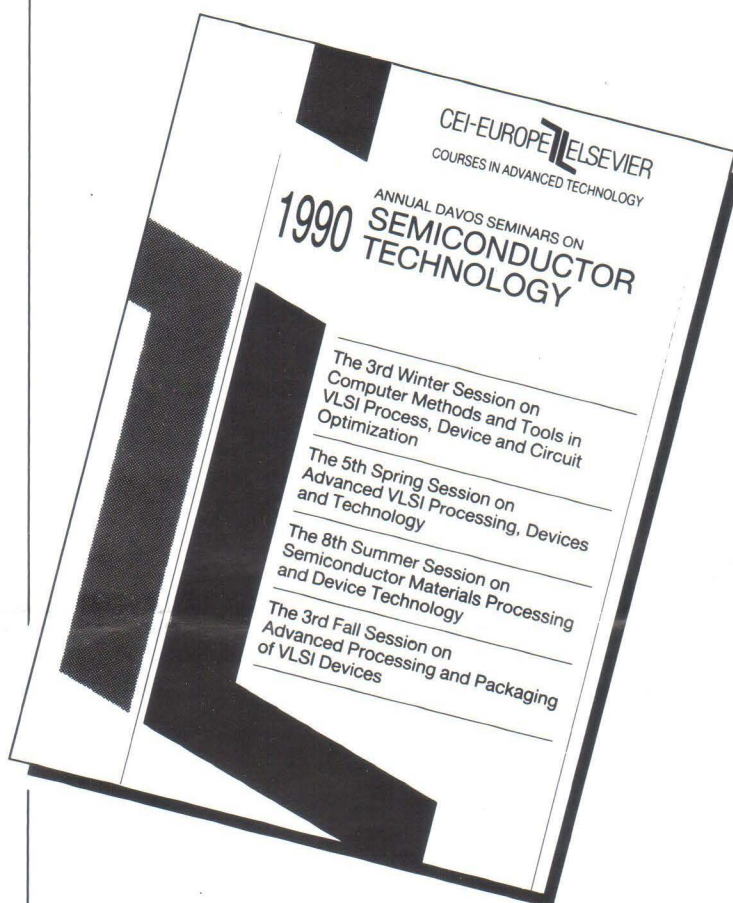
The experiment is designed to provide data on the practical use of CD-ROM technology as an alternative to printed technical information. The frequency of use and the types of material requested most often, will be examined, as will the differences in use at

university, government and business levels. It is anticipated that the data will be brought up-to-date every two weeks. By the autumn of 1989 decisions will be made about the project's future.

Both the IEE and the IEEE are prolific publishers of technical literature; between them these two organisations account for between a quarter and a third of the world's literature on electrotechnology.



CEI-Europe/Elsevier, Finspong, Sweden



Information Request

Semi

- ☐ Send me the 1990 Course Catalogue
- ☐ Sendcopies for distribution to my colleagues
- ☐ Send a detailed syllabus for courses
Number

Name:

Position:

Cmpy:

Dept:

Box/Street:

Post Code:

City:

Country:

— Mail this form to the address below —

1990 Winter Session on Computer Methods and Tools in VLSI Process, Device and Circuit Optimization

- 060 **VLSI Process and Device Simulation**
February 12-16, 1990, Davos, Switzerland
- 079 **Simulation Tools and Concepts in VLSI Design**
February 12-16, 1990, Davos, Switzerland
- 087 **Computer Methods for VLSI Yield Enhancements**
February 12-16, 1990, Davos, Switzerland

1990 Spring Session on Advanced VLSI Processing, Devices and Technology

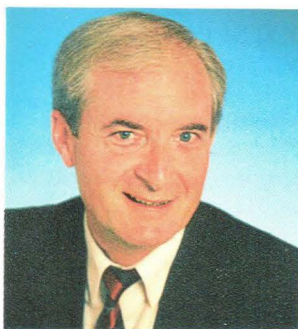
- 051 **Devices and Processes for VLSI - Executive Overview**
April 2-3, 1990, Davos, Switzerland
- 005 **VLSI Lithography**
April 2-6, 1990, Davos, Switzerland
- 035 **Plasma Etching for VLSI**
April 2-6, 1990, Davos, Switzerland
- 086 **Bipolar Devices and Processes**
April 2-6, 1990, Davos, Switzerland
- 017 **MOS Devices for Advanced VLSI**
April 2-6, 1990, Davos, Switzerland
- 016 **CMOS/BiCMOS Process Integration and Engineering**
April 2-6, 1990, Davos, Switzerland

1990 Summer Session on Semiconductor Materials Processing and Device Technology

- 036 **Silicon Semiconductor Materials and Process Technology**
September 10-14, 1990, Davos, Switzerland
- 002 **Compound Semiconductor Materials and Process Technology**
September 10-14, 1990, Davos, Switzerland
- 073 **Epitaxial Film Deposition and Characterization of Semiconductor Materials**
September 10-14, 1990, Davos, Switzerland
- 075 **Metallization Systems for VLSI & ULSI Circuits**
September 10-14, 1990, Davos, Switzerland
- 071 **Packaging and Reliability of Integrated Circuits**
September 10-14, 1990, Davos, Switzerland
- 050 **Digital GaAs IC Technology**
September 10-14, 1990, Davos, Switzerland
- 003 **Fiber Optical Communication Technology and Systems**
September 10-14, 1990, Davos, Switzerland

1990 Fall Session on Advanced Processing and Packaging of VLSI Devices

- 063 **The Basics of Plasma Processing**
December 3-7, 1990, Davos, Switzerland
- 067 **Sputtering for Microelectronics**
December 3-7, 1990, Davos, Switzerland
- 039 **Rapid Thermal and Directed Beam Processing**
December 3-7, 1990, Davos, Switzerland
- 061 **Semiconductor Silicon**
December 3-7, 1990, Davos, Switzerland
- 066 **High Performance Semiconductor Packaging**
December 3-7, 1990, Davos, Switzerland



From the Regional Treasurer

Dr. Rolf Remshardt

Financial Status.

In my last report, Region 8 News November 87, I explained how we control income and expenditure in the Region, and presented our financial situation at that time. During the past two years the dollar devaluation has stopped, the dollar value in Europe recovered by 10-15% and the exchange rate stabilised in 1989 to within $\pm 3\%$. This, together with a slight increase in the Region 8 Assessment, solved the problems which in 1987 I had anticipated, and helped to

improve our financial status.

This time, I should like to share another topic with you: the "Special Funds" available in the IEEE for specific activities within Regions, Sections or Societies. This might be of interest for those of you who are planning important actions, without having the whole of the money required.

Special IEEE Funds.

In talking to members at IEEE meetings, conferences and on other occasions, I have often heard the claim that there were many good ideas for interesting things to do, but that their realisation was difficult or impossible due to lack of financial support. For instance I learned that:

- From some countries it is difficult to attend IEEE Conferences to present a paper, due to

excessive travel expenses.

- In some Chapters or Student Branches, planned workshops or exchange visits are not possible due to lack of money.

- In the younger, smaller Sections, it is difficult to hold regular meetings, workshops, or events for membership development, because of the low rebate income.

During these discussions I have come to recognise that to many members it is not well known that there are special funds in the IEEE, which might help in some of these cases. These "special funds" support IEEE projects or events and anyone meeting the requirements can apply for them. Even within Region 8 itself, there are limited funds available for special purposes. I therefore tried during my last visit to Headquarters, to generate a list of

"Special IEEE Funds" available from either the IEEE or Region 8. Below is my personal list; it is not official and I do not claim that it is complete.

With this information I would like to encourage you to start all kinds of technical or educational activities and projects for the benefit of our present and future IEEE members. If you really need financial support, apply for it. The unofficial lists below should help you in choosing the right fund. Don't worry, if you do not succeed the first time - try again. There is an old rule, which applies also to the IEEE: "You will never get anything if you do not ask for it". Good luck and best regards from your Region 8 Treasurer.

IEEE FUNDS

Section Support via Regions.

(Formerly called "Needy Section Support")

Purpose: To support Sections that are having financial difficulties of any kind; especially for the smaller Sections.

Decision: Regional Activities Board (RAB) decides annual amount for the Region. The Regional Director controls distribution among Sections within the Region.

Application: Request to Regional Director with amount and purpose.

Electro Funds.

(Electro surplus distribution. Surplus from various Electro Conferences, to be used as funds for special IEEE projects)

Purpose: To support IEEE projects in Regions and Sections, that cannot be met by other resources.

Decision: By Committee consisting of RAB Vice-president, RAB Finance Chairman, RAB Secretary and the Regional Director.

Application: Apply to the Regional Director and the RAB Secretary in the Field Services Department at any time.

Regional Allocation Contingency.

Purpose: To support all kinds of Regional activities.

Decision: By the Vice-president of the Regional Activities Board.

Application: Send request to the Director of Field Services or directly to the RAB VP with amount and purpose by the end of the year. Copy to the Regional Director.

Technical Activities Board

The TAB officially has no special funds for any specific activities, but there may be occasions on which they are able to help; contact Dr. I. Ingelton or Mr. Don Suppoers. The Societies themselves however, are often able to provide financial support in special cases, e.g. for Chapter workshops or other events. Plans are under discussion with a view to providing Regional support for active Chapters.

Regarding Chapters, I would like to point out that they have two parents, a geographical one (Section/Region) and a technical one (Society). Both parents may be able to help a child in difficulty.

REGION 8 FUNDS

Conference Reserve Account

This money is used strictly for Region 8 sponsored conferences; prefunding, and profit and loss are covered by the account. There is a chance however, that Region 8 conference related activities might also be supported from the same source. The decision has to be made by the Conference Committee (Chairman Dr. J. Baal-Schem) and the Regional Director.

Purpose: Conference related activities within Region 8

Decision: Region 8 Conference Committee

Application: Request to Dr. Jacob Baal-Schem or to the Regional Director.

Student Activities

The Region 8 Coordinator for Student Activities (Mr. D.C. Poortvliet) has a significant annual budget to support all kinds of student activity within R8. He cannot of course support everything, but he is already running a very successful operation.

Purpose: All kinds of Student or Student Branch projects.

Decision: By the Coordinator for Student Activities.

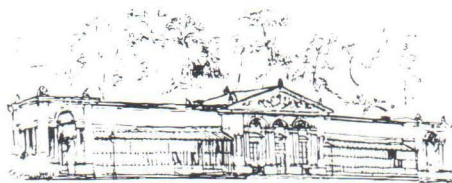
Application: Send request to Mr. D.C. Poortvliet with amount and purpose.

Director's Fund

The Region 8 Committee has approved the allocation of funds to the Director; he will use this money to assist Sections participating in R8 sponsored conferences.

Purpose: To support participation in Region 8 Conferences, e.g. Members of Region 8 Sections who would like to present papers but cannot afford the travel expenses. This may also apply to student members.

Application: Request directly to the R8 Director (include a copy of the paper, if any) This fund is relatively new and not yet well-known. Almost no use has been made of it up to now.



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Number

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Position:

Cmpy:

Dept:

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Post Code:

City:

Country:

— Mail this form to the address below —

Circuit Design

- 006 Linear Microwave Circuit Design (Part I)
- 020 Non-Linear Microwave Circuit Design (Part II)
- 053 GaAs Microwave Monolithic IC Technology
- 050 Digital GaAs IC Technology
- 007 Sample Data and Analog MOS Circuits for Signal Processing and Telecommunications

Signal Processing

- 082 Digital Signal Processing: Theory, Hardware & Applications
- 010 Digital Signal Processing - Filtering and Estimation
- 011 Frequency-Time and Space-Time Signal Processing
- 014 Spectral and Array Signal Processing
- 074 Multirate Digital Signal Processing
- 028 Fast Algorithms for Adaptive Signal Processing
- 009 Adaptive Signal Processing
- 013 Signal Processing in Sonar
- 030 Underwater Propagation & Ambient Noise

Modulation and Coding

- 058 Modern Digital Modulation Techniques
- 088 Combined Digital Coding and Modulation Techniques
- 037 Error Correction Codes and Reed-Solomon ECC for Data Communication

Speech and Image Processing

- 041 Pattern Recognition and Neural Computing
- 089 Speech Recognition
- 099 Digital Image Processing: Analysis, Coding, VLSI Implementations

Information Storage Technology

- 008 Optical and Magnetic Storage of Data
- 040 The Digital Recording Channel - Signal Processing, Modulation & Noise
- 038 Error Correction Codes & Reed Solomon Codes for Data Storage Systems

Communication Devices

- 057 Modem Design
- 019 SAW - Surface Acoustic Wave Devices for Signal Processing

Communication Networks

- 046 Signaling Systems Nr7 & Intelligent Networks

Communication Systems

- 049 Advanced Digital Communication Systems: Telephony, Digital Radio, LAN's, ISDN, Fiber Optics, Magnetic Recording and HDTV
- 047 Modern Digital Communications: Space, Satellite & Radio Channels
- 048 Spread Spectrum Communication Systems
- 065 Secure Communication Systems
- 023 Satellite Communications and Broadcasting
- 043 Communication Satellites: System Engineering and Launching
- 003 Fiber Optical Communications Technology and Systems
- 004 Fiber Optical Communication Systems
- 031 Sonar Systems Engineering
- 042 Adaptive Neural Networks

Microwaves and Radar Technology

- 006 Linear Microwaves Circuit Design (Part I)
- 020 Non-Linear Microwave Circuit Design (PartII)
- 053 GaAs Microwaves Monolithic IC Technology
- 012 Modern Microwave Techniques: Measurements, Signal & Network Analysis, Products & System Characterization
- 033 Trends in Radar Systems: Techniques and Technology to the Year 2000 and Beyond
- 025 Antennas, Radomes and Measurements

Control Engineering

- 022 Adaptive Control

Electrical & Electronics Engineers' Calendar of Conferences & Exhibitions in Europe, the Middle East & Africa.

No. 17

Issued by the Institute of Electrical & Electronics Engineers Region 8 and printed in the Region 8 News, which is 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.

November
1989

NOVEMBER 1989

08-10 **Computers and Safety Conference**
Cardiff, UK
Contact: IEE Conference Dept.

13-16 **IFIP International Workshop on Applied Formal Methods for Correct VLSI Design**
Luven, Belgium
Contact: Dr. Luc Claesen, IMEC vzw, Kapeldreef 75, B-3030 Luven, Belgium.

DECEMBER 1989

11-14 **International Conference on CAD/CAM & AMT in Israel**
Jerusalem, Israel
Contact: IC3 AMI c/o Ortra, POB 50432, Tel Aviv 61500, Israel.

11-14 **5th International Conference on Mobile Radio and Personal Communications**
Warwick, UK
Contact: IEE Conference Dept.

JANUARY 1990

8-9 **Course - Microwave & Millimetre-wave Monolithic Integrated Circuit Design**
Kings College, London, UK
Contact: The MMIC Course Organiser, Dept of Electronic and Electrical Engineering, Kings College London, The Strand, LONDON WC2R 2LS

Continuing Education: 1990 Seminars in Semiconductor Technology
Davos, Switzerland
Contact: CEI Europe/Elsevier, Box 910, S-612 01, Finspong, Sweden.

FEBRUARY 1990

15-17 **EURASIP Workshop on Neural Networks**
Sesimbra, Portugal
Contact: Dr. L.B.Almeida, INESC, Apartado 10105, P-1017 Lisboa Codex, Portugal.

MARCH 1990

05-08 **1990 International Zurich Seminar on Digital Communications**
Zurich, Switzerland
Contact: Prof.Dr. Melchior, Swiss Federal Institute of Technology, CH-8093, Zurich, Switzerland.

07-09 **11th ITG/GI Conference on Architecture of Computing Systems**
Munich, West Germany.
Contact: Dr. Ing F. Coers, Stresemannallee 15, VDU Haus, D-6000 Frankfurt, 70, West Germany

12-15 **Design and Automation Conference**
Glasgow, Scotland.
Contact: European Design & Automation Secretariat, CEP Consultants Ltd., 26 Albany Street, Edinburgh EH1 3QH, Scotland.

19-22 **UK IT 1990 Conference**
Southampton, UK
Contact: IEE Conference Dept.

APRIL 1990

03-05 **6th International Conference on Metering Apparatus and Tariffs for Electricity Supply.**
Manchester, UK.
Contact: IEEE Conference Dept.

09-12 **International Conference on Automatic Test & Diagnosis**
Bournemouth, UK
Contact: IEEE Conference Dept.

17-20 **INTERMAG 90**
Brighton, England
Contact: Courtesy Associates Inc., 655 15th Street, N.W.Suite 300, Washington D.C. 20005, U.S.A.

19-20 **GAAS '90 - Gallium Arsenide Applications Symposium**
Roma, Italy
Contact: C.C. & F, Voia P. Maffi, 5-27100 Padova, Italy

23-25 **3rd International Conference on Future Trends in Distribution Switchgear**
London, UK
Contact: IEE Conference Dept.

23-26 **8th International Conference on Video, Audio and Data Recording**
Birmingham, UK
Contact: IEE Conference Dept.

MAY 1990

01-03 **3rd International Conference on Road Traffic Control**
London, UK
Contact: IEE Conference Dept.

05-09 **CompEuro '90 - IEEE International Conference on Computer Systems & Software Engineering**
Tel Aviv, Israel
Contact: Conference Secretariat, c/o ORTRA, PO Box 50432, Tel Aviv 61500, Israel

13-17 **1st International Conference on Applications of Industrial Electronics Systems**
Jerusalem, Israel
Contact: Conference Secretariat, c/o ORTRA, PO Box 50432, Tel Aviv 61500, Israel

28-01 **ICDES 10 - International Conference on Distributed Computing Systems**
Paris, France
Contact: INRIA, Service des Relations Exterieures, Domoine de Voluceau, BP 105, Rocquencourt 78153 Le Chesney, Cedex, France.

JUNE 1990

05-07 **4th International Conference on Advanced Infrared Detectors & Systems**
London, UK
Contact: IEE Conference Dept.

10-15 **IEEE Power Electronics Specialists Conference**
San Antonio, Texas, USA
Contact: Professor Mehrdad Ehsani, Power Electronics Laboratory, Dept of Electrical Engineering, Texas A&M University, College Station, TX 77843, U.S.A.

26-29 **10th International Wroclaw Symposium on Electromagnetic Compatibility**
Wroclaw, Poland
Contact: EMC Symposium, Box 2141, 51-645 Wroclaw 12, Poland

26-28 **FTCS 20 - International Symposium on Fault Tolerant Computing**
Newcastle-upon-Tyne, UK
Contact: Prof. Bej Littlewood, CSR, City University, Northampton Square, London EC1V 0BH

27-29 **First International Conference on Communications & Signal Processing**
Brighton, UK
Contact: IEE Conference Dept.

28-31 **7th International Conference on Electromagnetic Compatibility**
York, UK.
Contact: IEE Conference Dept.

15-18 **International Conference on Integrated Broadband Services & Networks**
London, UK
Contact: IEE Conference Dept.

29-29 **Southern African Conference on Communications & Signal Processing**
Johannesburg, South Africa
Contact: Prof. C.Pauw, Dept of Electronics & Computer Engineering, University of Pretoria, 0002 Pretoria, South Africa

JULY 1990

02-05 **Bilkent International Conference on New Trends in Communication, Control & Signal Processing**
Ankara, Turkey.
Contact: Dr. Abdullah Atalar, Bilkent University, P.K.S., Maltepe, Ankara 06572, Turkey

09-11 **Joint Conference on New Trends in System Theory**
Genova, Italy
Contact: NTS T Secretariat, c/o Prof. G.Conte, Via L.B.Alberti 4, 16132, Genova, Italy

09-13 **International Neural Network Conference**
Paris, France
Contact: Mrs. Nina Thellier N.T.C., INNC-90-Paris, 19 ru de la Tour, 75115 Paris, France

09-12 **2nd International Conference on Factory 2001 - Integrating Information and Materials Flow**
Cambridge, UK
Contact: IEE Conference Dept.

17-19 **4th International Conference on Power Electronics and Variable Speed Drive**
London, UK
Contact: IEE Conference Dept

AUGUST 1990

20-21 **IEEE International Workshop on Intelligent Motion Control**
Istanbul, Turkey.
Contact: Professor G. Buja, Dept of Electronics, University of Trieste, Via Valerio 10, 34127 Trieste, Italy

09-13 **12th International Semiconductor Laser Conference**
Davos, Switzerland
Contact: Conference Secretariat, Mrs. Glassi, IQE-HPT, Swiss Federal Institute of Technology, CH 8093, Zurich, Switzerland

10-13 **CONPAR-VAP 90 - Joint Conference on Vector and Parallel Processing**
Zurich, Switzerland
Contact: Professor Dr. H. Burkhardt, Institut für Informatik, Universität Basel, Mittlere Strasse 142, CH-4056, Basel, Switzerland,

12-14 **IPCC '90 - IEEE Professional Communication Conference**
Guildford, Near London, UK
Contact: Dr. G.H.Byford, "Sandstones", Crooksbury Road, Runfold, Farnham, Surrey, GU10 1QB, England.

16-20 **ECOC '90 - 16th European Conference on Optical Communication**
Amsterdam, The Netherlands
Dr. E.Maanders, Treasurer Benelux Section IEEE, General van Portlandaan 39, 5623 KZ Eindhoven, The Netherlands.

18-21 **EUSIPCO '90 - 5th European Signal Processing Conference**
Barcelona, Spain
Contact: Eusipco-90 Scientific Com. Dept., Teoria de la Senal y Comunicaciones, ETSITB-UPC, Apdo. 30002, 08080 Barcelona, Spain

21-25 **1990 International Broadcasting Convention**
Brighton, UK
Contact: IEE Conference Dept.

OCTOBER 1990

8-12 **Conference on Parallel Computing in Engineering and Engineering Education**
Paris, France
Contact: Conference Services, The Microcomputer Unit Ltd., 45 Holborn Viaduct, London EC1N 2PB, UK.

20-23 **COGNITIVA '90**
Madrid, Spain
Contact: AFCET-COGNITIVA '90, 156 Boulevard Péreire, F.75017, Paris France

MARCH 1991

17-20 **Third IEE Conference on "WTelecommunications"**
Edinburgh, UK
Contact: IEE Conference Dept.

25-28 **Control '91 - International Conference**
Edinburgh, UK
Contact: IEE Conference Dept.

APRIL 1991

14-18 **7th International Conference on Antennas and Propagation**
University of York, UK
Contact: IEE Conference Dept.

22-26 **CIRED 1991 - International Conference on Electricity Distribution**
Liege, Belgium
Contact: AIM Conference Services, Rue St. Giles 31, B-4000, Liege Belgium.

MAY 1991

06-10 **CompEuro 91 - IEEE Conference on Advanced Computer Technology, Reliable Systems, and Applications.**
Bologna, Italy
Contact: Professor Vito Monaco, Dip di Elettronica, Via Risorgimento 2, 40136, Bologna, Italy.

20-22 **4th International Conference on Television Measurements**
Montreux, Switzerland
Contact: IEE Conference Dept.

22-24 **MELECON '91 - Mediterranean Electrotechnical Conference**
Ljubljana, Yugoslavia
Contact: Professor B. Zajc, Fakulteta za Elektrotehniko, Trzaska 25, 61000 Ljubljana, Yugoslavia.

22-25 **12th IFAC Symposium on Automatic Control in Aerospace "Intelligent Autonomous Vehicles"**
Southampton, UK
Contact: IEE Conference Dept.

**IEE Conference Department,
Savoy Place, Victoria Embankment, London,
England, WC2R 0BL**

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



PESC '90

Power Electronics Specialists Conference
San Antonio, Texas, USA
June 10-15, 1990

CALL FOR PAPERS

The Power Electronics Specialists Conference (PESC) solicits papers for the 1990 conference to be held at the Hilton Palacio Del Rio in San Antonio, Texas, USA, June 10-15, 1990.

PESC brings together specialists in circuits, systems, electron devices, magnetics, control theory, motors, instrumentation, superconductivity applications, and power engineering for interdisciplinary discussions of new ideas, research, development, applications, and the latest advances in the field of power electronics. Please submit a paper describing original and unpublished analytical and/or experimental work in power electronics.

Seven copies each of an abstract (50 words maximum) and a five-page digest should be submitted to Professor Martin F. Schlecht at the address given below. The abstract should be typed, double-spaced on standard letter-size paper, headed by title, author(s) and affiliation(s), mailing address(es) and telephone numbers. The corresponding author should be identified. The most applicable subject category should be shown at the bottom of the abstract. The digest must be separate from the abstract, typed, double-spaced, on standard letter-sized paper, with the title only in the heading. *No author(s) affiliation(s) are to be shown in the digest.* The digest should outline the work to be reported, including a statement of the goal of the work, a discussion of the results obtained, and a clear statement of key equations, figures, tables, numerical results, and references. Papers will be judged and selected strictly on the technical content and presentation of the digest.

The deadline for submission of the abstracts and digests to the Program Chairman is **October 31, 1989**. You will be notified of acceptance by February 1, 1990. The final manuscript must be submitted by March 30, 1990, typed on mats that will be provided by PESC '90. Accepted papers must be presented orally at PESC '90 and will be published in the Conference Record.

For further information, please contact:

Conference Chairman:

Professor Mehrdad Ehsani
Power Electronics Laboratory
Dept. of Electrical Engineering
Texas A & M University
College Station, TX 77843
Telephone: (409)845-7441

Program Chairman:

Professor Martin F. Schlecht
Room 39-553
Dept. of Elec. Eng. & Comp. Sci.
M.I.T.
Cambridge, MA 02139
Telephone: (617)253-3407

Sponsored by the Power Electronics Society (PELS) of the Institute of Electrical and Electronics Engineers (IEEE)

Israel

By Dr. Uzi Padan

Membership of the Israel Section has grown by about 15% since last year and is now over 950, including 200 students. This is mainly due to our efforts to promote membership during our 16th biennial National Convention held in Tel Aviv on March 19th.

All new members are reminded to renew their membership for 1990 by the end of the year; if convenient, membership dues may be paid with international credit cards - just follow the simple instructions which you will soon receive by mail.

A successful International Conference on Control and its Applications (ICCON) was held in Jerusalem from 3rd to 6th of April 89, and the 4th Israel conference on Computer Systems and Software Engineering was held in Tel-Aviv from 5-6th June 1989. The proceedings of two national events, as well as ICCON Proceedings were issued in English and are available through the normal IEEE channels. Thanks to the extra effort put in by all those involved in the production of the Proceedings (Speakers, Reviewers and Editors) our work can be shared with the whole professional community.

Preparations are now well in progress for two international events to be held next May: CompEuro '90 (Tel-Aviv, 7-9th May 1990) and the 1990 IEEE International Conference on the Applications of Industrial Electronic Systems - CAIES (Jerusalem, 13-17th May 1990). For information please contact the secretariat of Ortra Ltd., PO Box 50432, Tel-Aviv, 61500, Israel. Tel: 972-3-664825. Fax: 972-3-660952. Tx: 361142 ORTRA IL.

Section Chairman: Dr. Uzi Z. Badan, PO Box 7129, Haifa 31070, Israel.

Greece

By Professor Basil C. Papadias

Section elections were carried out last July, in accordance with the IEEE Regulations and the Section Bylaws. The previous Section Officers were re-elected for another two-year term:

Chairman:	B.C. Papadias
Vice-chairman	G. Stassinopoulos
Secretary/Treasurer	G. Contaxis

A new and "active-looking" committee has taken over. Another election too place in the Power Chapter - the newly elected Chairman is Dr. Eleftherios Economacos.

The Technical Conference organised in Nicosia, Cyprus, last June, on "Computers and Communications", was the major educational event of the last period. The Conference was very successful with over 90 local participants; it consisted of a full-day session with six lectures. The lectures, given by specialists from the National Technical University in Athens, covered topics on computer networks, protocols, propagation, satellite communication, and others. A second day was devoted to technical visits to telecommunications sites in the island. The Conference attracted a wide publicity, with the presence of Government Officials and interviews in the local media.

The petition for a Communications Chapter is ready to be submitted and preparatory work for three other new chapters has already started. As always, educational activities are a principal concern and form a major part of the year's programme.

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

France

By Dr. Ferdy Mayer

Approval has been obtained for the formation of an Electromagnetic Compatibility Chapter in the France Section. The provisional Chairman is Dr. F. Mayer, Laboratoire d'electronique et d'Automatique Dauphinois, 92-98 Boulevard Victor-Hugo, 92115 Clichy, France. Tel: (1)4739 2444.

The editor wishes to apologise for two omissions from page 11 of the May issue of Region 8 News.

The author of the article on IEEE Awards was Professor E. Folke Bolinder, who is the Region 8 Appointed Representative for Awards and

A name absent from the list of Region 8 Awards was that of Dr. Alfonso Farina, who was the recipient of the 1987 Radar Systems Panel Award; it was presented by the Aerospace and Electronic Systems Society.

In addition, the name of Professor Fernando Aldana was incorrectly spelled on page 3.

Mr. Don Suppers

IEEE Field Services

We have recently heard that Don Suppers, the Staff Director of Field Services, is unwell. Don's friendly and authoritative advice on all matters to do with the IEEE rules and regulations has been of great help to the Region 8 Committee; we all wish him a speedy return to good health.

Jeddah

By Dr. M.A.I. Turki

Jeddah Section committee held a meeting on 6th August to review past and future IEEE activities in the Western Region. Dr. Turki chaired the meeting and he was gratified by the participation and views contributed by the committee members, on the development of the Jeddah Section. Dr. Turki also announced that the membership of Jeddah Section had increased to 176, applicants awaiting approval of their applications from IEEE Field Services.

The formation of a Student Branch in the Jeddah Section is under consideration; it is hoped that this will encourage Electrical Engineering students in the Western Region to participate and take part in IEEE activities.

It is expected that a total of four seminars will be held before the end of the year.

Section Chairman: Dr. M.A.I. Turki, PO Box 9897, Jeddah 21423, Saudi Arabia.

Egypt

By Professor Abdel-Latif I. Ahmed

New Objectives 1. The formation of a Joint Chapter - Control and Industrial Electronics. 2. Members' visits to Industrial Companies, Universities, Electrical and PTT installations.

The following lectures will be given:

i) Developments in VLSI Technology - Dr. Ali Rashed - 12th November

ii) Nuclear Power Stations - Dr. Mohamed Saleh - 26th November.

iii) Antennas & Propagation - Speaker and Date to be announced.

Section Chairman: Professor Abdel-Latif I. Ahmed, 59 Madinet El-Ilam Fl. 410, Agouza, Cairo, Egypt.

CompEuro '89

By Professor Walter E. Proebster (Chairman CompEuro '89)

Yet another conference - is it really necessary? Many colleagues asked this question when they heard for the first time about CompEuro. The answer is simple - before the CompEuro conferences were introduced there was no annual international computer conference in Europe. In many instances it was necessary to go overseas to present research results or to obtain information on recent computer developments.

To respond to this need the IEEE Computer Society and Region 8 (Europe Middle East and Africa) have established the CompEuro series of conferences to ensure a broad national and international cooperation. National and international technical societies are joining CompEuro conferences as sponsoring or cooperating partners. In addition to the Computer Society and Region 8 CompEuro '89 was sponsored by Gesellschaft für Informatik and Verband Deutscher Elektrotechniker. Cooperating partners were EUREL, Euromicro, GME, SI, ITG, SID, the European Physical Society and others. Industry and Government Agencies have supported CompEuro '89: Deutsche Bunderpost, IBM, Philips, SELK and Siemens. These conferences are structured to educate the newcomer and familiarise the expert with adjacent fields in his speciality, and to provide a review of latest developments; and finally to bring together experts from different fields for a mutually beneficial dialogue.

The response of the technical community to the CompEuro concept has been most encouraging. CompEuro '89 attracted more than 400

delegates and some 300 papers were submitted, 200 of which were presented in five parallel sessions; the authors were from more than 30 countries world-wide.

The conference centre in Hamburg, CCH, provided an efficient and friendly meeting place; it is Germany's, if not the world's, best equipped conference centre with many lecture halls, a large international hotel, restaurants, parking facilities etc, all under one roof. It is located in a pleasant environment close to the Botanical Garden and is within walking distance of the city and the main railway station.

The culmination of this four-day conference was a series of lectures by a number of eminent leaders in the field, each of whom gave his views from a different international point of view: The Future of Optical Recording (The Netherlands), Japanese I/O Technology (Japan), Technological Changes in the Field of Sensors (Federal German Republic), VLSI - the Driving Force for Computer Peripherals (Burlington, USA), European Collaboration in Integrated Broadband Communications (Luxembourg).

• CompEuro '90 will be held in Tel Aviv - 7-9th May 1990. "Computer Systems and Software Engineering".

• CompEuro 91 will be held in Bologna - 6-10th May 1991 - "Advanced Computer Technology, Reliable Systems, Applications".

Sweden

By Dr. Anders Derneryd (Secretary)

Chapters There is great interest in forming new Chapters with the Sweden Section. Please contact the following to give your support and ideas on technical activities:

Computer: Stig-Göran Larsson, CTH. Tel: 031-721693

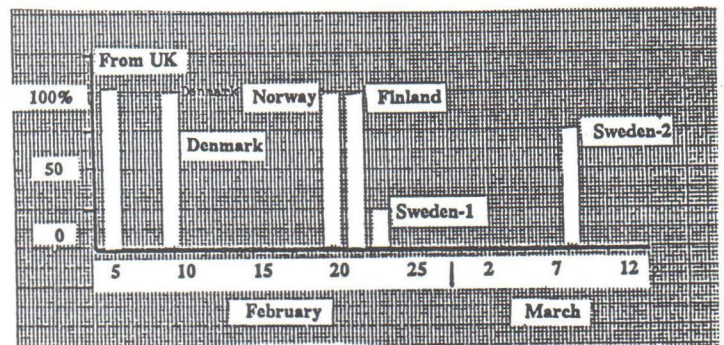
Circuits & Systems/Electronic Devices: Kjell Jeppson, CTH. Tel: 031-721846.

Membership Development The Sweden Section is growing steadily at an annual rate of 8%; there are now 708 members. The following activities have been undertaken to increase the membership further:

During September 10-14th in Göteborg a membership booth was organised at the 15th European Conference on Optical Communication (ECOC '89).

This summer letters have been sent to those in arrears in order to encourage them to continue their IEEE membership.

Region 8 News The postal delay for the delivery of Region 8 News to Swedish members is variable and can be as much as two months. R8 News is sent by ship from England to Denmark and then by truck to Sweden. The diagram below is from a postal survey undertaken by the Editor and shows the relative delays to Scandinavian countries for the February edition, all of which have their News delivered via Denmark.



In an effort to trace the delays we are interested in hearing from you; please contact the Section Chairman and let him know the town in which you live and when you received this issue of Region 8 News. It would be possible to deliver by airmail - that would be expensive.

Salary Survey Anyone interested in US salaries? Please contact Section Chairman who has a copy of the 1989 US Membership Salary and Fringe Benefit Survey.

Video Tapes The Section has a VHS tape and slides for the promotion of the IEEE. It is available for anyone to borrow.

Section Chairman: Dr. J. Piotr Stariski, Chalmers University of Technology, Division of Network Theory, S-412 96 Gothenburg, Sweden. E-mail: piotr@nt.chalmers.se (UUCP)

INNC 90 PARIS

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Bernard WIDROW (Stanford University), President INNS, Bernard ANGENIOL, THOMSON-CSF, Chairman of Pygmalion, Esprit project on Neural Networks.

PROGRAM COMMITTEE

Chairman

Teuvo KOHONEN, Professor at the Helsinki University of Technology.

Members

Igor ALEKSANDER, Professor at the Imperial College London.

Shun ICHI AMARI, Professor at the University of Tokyo.

Leon COOPER, Nobel laureate, professor at Brown University, co-founder of Nestor, Inc.

Rolf ECKMILLER, Professor at the University of Düsseldorf.

Françoise FOGELMAN, Professor at the University of Paris 11.

Stephen GROSSBERG, Professor at Boston University.

David RUMELHART, (*) Professor at Stanford University.

Philip TRELEAVEN, Professor at the University College London.

Christoph VON DER MALSBERG, Professor at the University of Southern California.

(*) *unconfirmed*

The general co-chairs Bernard WIDROW and Bernard ANGENIOL, and Teuvo KOHONEN, Chairman of the program committee invite all members of the international community to submit original papers to the INNS-90-PARIS by **January 20, 1990**, in English, on scientific and industrial developments in the following areas:

A. APPLICATIONS - B. IMPLEMENTATION - C. THEORY - D. COMMERCIAL.

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Students - from Spain

By Xavier Perramon

April 14th was the occasion of the Region 8 Student Branch Transnational Meeting held in Lisbon during Melecon '89. Our student branch organised a one-day technical programme in Madrid for some of the attending students. The programme included visits to the manufacturing plants of Alcatel SESA in Villaverde and Intelsa (Spanish branch of Ericsson) in Leganés, and a visit to the Telecommunication Engineering School in Madrid Technical University.

On the first visit we were shown over the sections where electromechanical and electronic switching equipment is manufactured, with special emphasis on the 1240 system.



Visitors & Staff at Alcatel

In the second visit, the Intelsa plant, we witnessed some of the aspects in the production of communications equipment, from the simplest discrete elements and ICs to the modern PABX and packet switching equipment.

In the visit to the Telecommunications School, we were shown into the main departments and given a brief account of the research work being carried out. We concluded the technical programme with a visit to the Madrid Student Branch office, which is one of the oldest Branches in Region 8. The social activities followed.... The complete programme proved to be a great success, with the participation of Branches from Eindhoven, Athens, Madrid and Barcelona.

Students - from Finland

By Nikko Katajamaki

Did you know that we students here in Region 8 are at the leading edge in applying the modern technology in branch-to-branch communications. Yes, I have just learned that only in Canada is there a similar e-mail forwarding system. Regions 1 to 6 in the USA have not yet realised the benefits of easy communications. We have the system, so let's use it. For example, a copy of this article will be sent to all those branches on the mailing list below. The idea is as follows:

When sending your mail to ieee-eu@tut.fi it is routed to all the addresses in the list. If your branch has access to a computer which

is connected to Internet or UUCP network and your e-mail address is not yet on the mailing list, please use your computer system's mailing facilities and contact the postmaster Petri Solanti (whose address is psol@tut.fi) and send him a message to say who you are and give the name and address of your branch; this will be added to the mailing list.

This year's second Student Activities Committee Meeting was held on the 25th August in Denver; the minutes haven't yet shown up, but according to Region 7 RSR Mark Vigder, some interesting problems were studied. Amongst these were: Planning the

Student Branch awards and contests, and Retaining Student Members after graduation.

You will be pleased to know that starting next year, graduates will not have to pay the full member dues until five years after graduation. I hope this will reduced those high attrition rates. There is another matter which I believe will be improved next year: more information will be offered to the branches in the form of a full list of Region 8 branch addresses including e-mail when available; in addition, copies of the top three papers in the Student Paper Contest will be sent to branches either automatically or on request.

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 Chairman: Arno van Lier

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mdoerr@incas.uucp

Michael Doerr

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Jose M. Blanco, Secretary, IEEE SB Madrid.