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# IEEE

## Region 8 News

No 106 - May 1994

Europe, Middle-east and Africa



Editor

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### From the Regional Director

#### Sections in Development - Region 8 Policy

The recent Forward Planning meeting held in Zurich considered membership development issues in the Eastern European countries and possible collaboration with their national engineering societies. The Region at present has three designated Sections-in-Development: Albania, Bulgaria and Lithuania. Requests for S-I.D status have also been received from other countries in the former Soviet bloc. Some countries in Africa could also be candidates in the near future.

Region 8 policy has been to use the S-I-D scheme to promote the growth and development of IEEE activity to the point where a formal application for the formation of a Section, a minimum of 50 members is required, can be made to the Regional Activities Board.

A judgement must be made in each case about the long-term viability of the new Section. Factors such as the likely size of its steady-state membership, affordability of dues, currency convertibility and level of technical activity (academic and industrial) must be considered. It is not realistic to expect all applications to meet these criteria, given the economic and political difficulties facing the countries of Eastern Europe and the low level of industrial development in many African countries.

Our meeting acknowledged the Regional Committee's responsibility towards IEEE members living in countries having no Sections. In some cases it might be possible for members to affiliate to a nearby Section or even to form a Chapter - 12 members with a common technical interest would be the necessary minimum.

The Region 8 News reaches all members: it would be interesting to hear the views of those who have no Section or Chapter organised in their country.

#### SC '96 in Denver Colorado

The Regional Co-ordinator for Sections Congress '96, to be held in November 1996 in Denver, USA, is Professor Baldomir Zajc of Slovenia. He will assist the Region in its planning process so as to ensure that as many Sections as possible send representatives; he will also liaise with the local organising committee for the Congress.

#### Voluntary Contributions

The Region 8 initiative to encourage members to make voluntary contributions for the development of member services in needy Sections has produced over \$4,000 in the first six months. We intend to continue this method of raising funds so that in Region 8 the least prosperous Sections can be given assistance to improve their technical libraries, to enable members to attend IEEE meetings and to promote local IEEE activity. As an example, UKRI members have shipped books and journals to the University of Tirana, Albania with a grant from this scheme. Any suggestions concerning the use of these funds, or requests for help, should be sent to the Director.

Charles Turner, Director Region 8

### France

#### CONFERENCES

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

- **Applications of Non-ceramic Outdoor Insulation for Transmission and Distribution Networks**, Paris, Palais des Congrès, France, [June 7-8 1994].

The objectives of this conference are: to present the various electrical equipments manufactured for transmission and distribution networks, to estimate their performances and to compare them with those of standard equipment, to set out the various applications of such equipment and the corresponding specifications, including methods of installation.

(inf. : Mme Vannier, SEE, 48 rue de la Procession, 75724 Paris Cedex 15, phone : (33) 1 44 49 60 17, fax : (33) 1 44 49 60 49).

- **IPMU, (5th International Conference on Information Processing and Management of Uncertainty in knowledge-based systems)**, Paris, France, [July 4-8, 1994].

(inf. : Mme Bernadette Bouchon-Meunier, LAFORIA, Universit Paris VI, Boîte 169, 4 place Jussieu, 75252 Paris Cedex 05, phone : (33) 1 44 27 70 03, fax : (33) 1 44 27 70 00, e-mail. : bouchon@laforia.ibp.fr).

- **CEFC'94, (6th biennial Conference on Electromagnetic Field Computation)**, Aix-les-Bains, France [July 5-7, 1994].

The aims of CEFC are to present recent developments in the design and analysis of electromagnetic devices. Stress will be put on practical applications and specific problems related to numerical computation of electromagnetic fields.

(inf. : CEFC'94 Secretariat, Yves Marchal and Gilbert Reyne, LEG, ENSIEG, B. P. 46, 38402 Saint Martin d'Hères Cedex, phone : (33) 76 82 64 03, fax : (33) 76 82 63 00, e-mail. : cefc@ensieg.fr).

- **OCEANS 94 OSATES (Ocean Space Advanced Technology European Show)**, Brest, France [September 13-16, 1994].

(inf. : Mlle Bonami, SEE, 48 rue de la Procession, 75724, Paris Cedex 15, phone : (33) 1 44 49 60 60, fax : (33) 1 44 49 60 44/49).

- **ICEM'94, (International Conference on Electrical Machines)**, Gif-sur-Yvette, France, [September 5-8, 1994].

The purpose of this conference is to gather developers, users and researchers from around the world to foster information transfer on recent developments and future tendencies in theory, computation, functioning and applications of electrical machines and drivers.

(inf. : M. Lucien Deschamps, secrariat gnral de la SEE, 48 rue de la Procession, 75724 Paris Cedex 15, phone : (33) 1 44 49 60 60, fax: (33) 1 44 49 60 44/49).



## Germany

By Professor Dr.-Ing. E. Handschin

### Executive Committee

The executive committee of the German section met on October 13th 1993 in Karlsruhe; the Executive Committee for the period 1994/6 was elected:

Chairman: Prof. Schwab, Karlsruhe.

Vice-chairman: Mr. Baber, Bad Homburg.

Treasurer: Prof. Wiesbeck, Karlsruhe

In addition to these elected officers the following appointments were approved by the executive committee:

Awards Officer: Prof. Saal, München

Student Activities: Prof. Hahn, Passau.

Membership Development: Prof. Proebster, München

Conference Officer: Prof. Ney, Aachen

Publicity Officer: Prof. Handschin, Dortmund

The executive committee appreciates the secretarial support given by the VDE. Dr. Schanz, manager for the ITG at the VDE Headquarters in Frankfurt, will act as secretary for the German section. The executive committee thanks Mr. Theobald for his past contribution as secretary to the Section.

### 1994 Conferences

- 21-25.2.1994. **IEEE Int. Conf. on Multimedia Computing and Systems** - Darmstadt. Sponsored by the IEEE Computer Society. Chairman: M.M.Koehler, SNI Offenbach. Conf. Chairman: Prof. Encarnaco, TH Darmstadt. Tel: 06151 160
- 14-16.3.1994. **ITG/GMA - Fachtagung Sensoren-Technologie und Anwendung**. Bad Nauheim. Prof. Sessler, TH Darmstadt. Tel: 06151 162869
- 21-23. 3.1994 **ITG-Fachtagung Mikroelektronik in der Informationstechnik**. Dresden Prof. Klar, TU Berlin. Tel: 030 3142 5435
- 12-15.4.1994. **ITG-Fachtagung Antennen**. Dresden. Brunner, Siemens AG. Tel: 089 3179 2682
- 3-4.5.1994. **Identifizierungssysteme**. Frankfurt/Main. Kontakt: Gesellschaft Mikroelektronik (GME). Tel: 069 6308 330
- September 1994. **16.DAGM Symposium Mustererkennung 1994** - Sponsored by the Section

### Chapters

The German Section now has four chapters:

MTT/AP: Prof. Arndt, Bremen

Computer: Mr. Köhler

CAS Prof. Mlynski, Karlsruhe

PE: Prof. Denzel, Brauweiler

The MTT/AP chapter will organise, jointly with the CAS chapter, a workshop on **Discrete Time Domain Modelling of Electromagnetic Fields and Networks**; it will be organised by Prof. Russer. In addition the MTT/AP offers the following:

**24.05.94. International Workshop on CAE, Modelling and Measurement Verification**. In Sindelfingen

**23-24.09.93. Workshop on Microwave Sensing**. In Ilmenau

The **Computer Chapter** will organise four meetings in 1994 - details will be announced later by the Chairman, Mr. Köhler.

The **Power Engineering chapter** has been approved by IEEE Headquarters. The Board for the chapter was appointed and established during the constitutional meeting on February 1st 1994

Chairman: Prof. Denzel, Brauweiler

Vice-chairman: Prof. Schuppe, Duisberg

Secretary - Treasurer Prof. Verstege, Wuppertal

Professional, Student

& Educational Activities Prof. Voß, Paderborn

Membership Development,

Newsletter, Awards Prof. Handschin, Dortmund

The chapter organised a workshop on **Neural Networks in Power Engineering** - Dortmund, on 26th January 1994. On 15th September 1994 there will be an excursion to the control centre of RWE in Brauweiler.

The Executive Committee supports the formation of two new chapters: **Electron Devices**, and **Electromagnetic Compatibility**. All members interested in any of the activities of this new chapter are invited to contact the appropriate Chairman, through Prof. Schwab

### Students

Student membership continues to grow steadily. Prof. Hahn circulated a list of all student branches within the German section. All Student members are invited to participate in the student contest paper organised by Region 8

### Membership Development

Membership development within the Section is satisfactory. After the action initiated by the section chairman Prof. Schwab, "Each member win a member", the membership growth in the 1993 was 12%

In view of the planned Power Engineering Society summer meeting in 1997 there will be close co-operation between the VDE, ETG and IEEE. The Communication Society plans an ICC/Globecom in 97/98. The ITG, within the VDE, will prepare the necessary coordination with the IEEE.

Section Chairman: Prof. Dr.-Ing. Adolf J. Schwab. High Voltage Research Lab., University of Karlsruhe, Kaiserstrasse 12, 7500 Karlsruhe 1, GERMANY

## EGYPT

By Professor Abdel-Latif I. Ahmed

The IEEE President, Dr. Martha Sloan, visited the section in October 1993 during a general meeting of the section members.

The main problems discussed were:

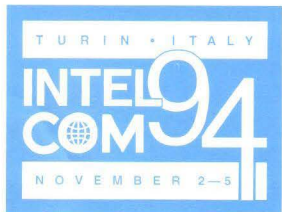
1. Publications delay, especially from Societies.
2. A proposal to offer students a 50% reduction in membership dues. Dr. Sloan said that India had made a similar proposal.
3. Continuation of the supply of IEEE publications to the information centre established at the Society of Egyptian Engineers, Cairo.

Membership Development: We have a campaign to encourage new members and increase our membership to 500.

New Chapters: With the support of the Electron Devices Society, steps are being taken to form a joint Communication/Electron Devices chapter.

Chapter Chairman: Prof. Abdel-Latif I. Ahmed, 59 Madinet El-Ilam, Fl. 410 Agouza, Cairo 12411, Egypt. Fax: 0202 700 884. Tel: 0202 346 99000





INTERNATIONAL  
COMMUNICATIONS  
CONFERENCE AND  
EXHIBITION

## "Enhanced Communications for the 21st Century"

Turin, Italy  
2-5 November 1994

**For the first time an IEEE MTT-S Congress  
will take place outside the United States  
together with an important Microwave  
Exhibition at INTELCOM 94.**

For MTT-S and INTELCOM 94 Congress and Exhibition  
information please contact:

**Adtech Publications and Exhibitions**

**Portland House, Stag Place**

**London SW1E 5XT UK**

**Tel: +44 71 957 0030 Fax: +44 71 957 0031** 

## GREECE

By Prof. G.I. Stassinopoulos

Elections were held and the current members were re-elected, (G. Stassinopoulos, G. Kontaxis, Ph. Konstantinou for president, vice-president and secretary/treasurer respectively).

From key presenters we have had a series of exciting lectures on telecommunications:

- Dr. Nickolas Zervos, Bell Labs, on *High Bitrates for the Local Loop* (video on demand applications) and Prof. Constantine Kourkoubetis of the University of Crete on *Cell Loss Estimation for ATM Networks*.
- A forthcoming visitor and invited speaker is Prof. Y. BarNess from the New Jersey Institute of Technology, who will address *Interference Cancellation in Multiuser Communication Systems* (April 7th, 1994).

### Non-linear Signal & Image Processing

Members in the north of our section covering Thessaly, Macedonia and Thrace are busy organizing the 1995 IEEE Workshop on *Nonlinear Signal and Image Processing*; to be held in Halkidiki, Greece, June 20th-22nd, 1995. Submission of an extended abstract is due before November. 1st, 1994 and interested members should contact:

**Prof. Ioannis Pitas, Department of Electrical & Computer Engineering, Aristotle University of Thessaloniki, P.O. Box 463, 540 06 Thessaloniki, Greece, tel: +30-51-996304, fax: +30-51-274868, E-mail: pitas@vergina.eng.auth.gr**

Prospective authors are invited to submit three copies of an extended summary of not more than three pages. Among the subjects of interest to the conference are:

*Median and order statistics and related methods*  
*Morphological signal/image processing and analysis*  
*Volterra and general polynomial filters*  
*Higher order statistics applied to detection and estimation*  
*Applications: Biomedical, speech, image & image sequence processing.*

A second and more imminent event is the 1994 Workshop on *Neural Networks for Signal Processing*, Ermioni, Greece, Sept 6-8, organized by Dr. John Vlontzos, INTRACOM S.A., Peania, Attica, Greece, tel: +30-1-664 4961, fax: +30-1-664 4379.

*Section Chairman: Prof. George G. Stassinopoulos, Nat. Tech. University of Athens, Division of Computer Science, Heron Polytechniou 9, 15773 Zografu, Athens Greece.*  
*Tel: +30 1 779 3988; Fax: +30 1 775 7501*

## ISRAEL

By Professor Ady Seidman

### Fellow Awards

The Israel Section congratulates Uri Shaked, who was elected to the IEEE Fellow Grade on January 1, 1994, for "Contributions to the theory of singular optimal estimation and to linear control theory"; Shlomo Shamai for "Contributions to Shannon theory as applied to the evaluation of the reliability of communication channels"; -Mati Wax for "Contributions to sensor array signal processing and model selection"; Ehud Weinstein for "Contributions to the application of statistical methods to signal processing and time delay estimation"

### New Chapters

Two Chapters have recently been established: *Vehicular Technology* - Chairman Dr. Reuven Meidan and *Information Theory* Chairman - Dr. Meir Feder. The formation of two other chapters is being considered: Professor. Anthony Weiss is organizing the *Signal Processing* Chapter and Marcel Friedman the *Reliability* Chapter.

### 18th IEEE Convention - Israel.

A call for papers was issued for the 18th Convention, which will be held in Tel-Aviv from March 7th to 9th, 1995. The papers, to be published in the Proceedings, will be in English. For an advance program and registration, please mail your address to:

IEEE, Department of Electrical Engineering, Faculty of Engineering, Tel-Aviv University, 69978 Ramat-Aviv, Israel.

### Elections

Elections for the Israel Section Executive Committee and for some Chapter Committees will be held in May, 1994.

*Section Chairman: Prof. Ady Seidman Tel-Aviv University, Faculty of Engineering, IL-69978 Ramat-Aviv, Israel*  
*Tel.: 00972-3-6408138, FAX: 00972-3-6423508;*  
*e-mail: seidman@eng.tau.ac.il*



## Obituary

### Professor Friedrich W. Gundlach - Berlin

Professor Gundlach's life and career were very much coupled to Berlin, his birthplace; he went to school there and studied at the former Charlottenburg College of Engineering (Charlottenburger Hochschule). It was here too that he obtained the Dr.-Ing title for his work on the high frequency applications of vacuum tubes. Nine years of industrial activity in a war torn Germany were followed by a career in academia; visiting lecturer in the Karlsruhe Technical College in 1947 and in 1949 as Director of the Telecommunication Institute in Darmstadt.

He was appointed Director of the Institute for High Frequency Techniques in 1954 and from that date to 1979 was closely associated with the development of the Faculty of Engineering. He was a very persuasive speaker and his lectures were always meticulously prepared. A calm and understanding examiner, he encouraged students to give of their best.

With the collaboration of Professor Meinke and a number of other experts he published "Taschenbuch der Hochfrequenz-technik" (A pocketbook for High Frequency Techniques). The book has been extensively used in Germany; it has recently been brought up-to-date and republished by some of his former students now in key positions in industry and academia.

He was Rector of the Technical University of Berlin from 1963 to 1968 and was the pioneering power behind the formation of the Heinrich Hertz Institute. In honour of his scientific, technical and educational achievements he received many awards, including his election as a Fellow of the IEEE.

*Saba Mylvaganam*

*Bergen Ingeniorhogskole, Norway*

## Benelux

*By Professor Dr.-Ramjee Prasad*

The IEEE Communications/Vehicular Technology Society Joint Chapter of the Benelux Section, organised its "First Symposium on Communications and Vehicular Technology (SCVT '93) - in Delft, The Netherlands - October 1993. The symposium was cosponsored by the Telecommunications and Traffic Control Systems Laboratory of Delft University of Technology and Alcatel Bell - SDT. The following keynote papers were presented:

- **Transmitter Power Control for Co-channel Interference Management in Cellular Radio Systems: an overview and some recent results.** By J. Zander, R.I.T. Stockholm, Sweden.
- **"Adaptive Algorithms for Interference Cancellation in Multi-user Communication Systems".** By Y. Bar-Ness, NJIT New Jersey, U.S.A.
- **"An overview of Millimetre Waves for Future Personal Wireless Communication Systems".** By R. Prasad, TU Delft, The Netherlands.

There were thirty one contributed papers in six sessions:

- Acquisition and Synchronisation
- Spread Spectrum
- Indoor Radio
- Coding & Modulation
- Protocols
- Multipath and Fading

The Symposium Committee consisted of R. Prasad, Symposium Chairman; Vice-chairman Dr. A. Laloux; Organising Chairman Dr. A. Kegel; Technical Programme Chairman Professor Dr. L. Vandendorpe

Professor P. Delogne of UCL, Louvain-le-Nueve, Belgium gave the opening speech and Professor J.C.Arnabak of TU Delft, The Netherlands delivered the Symposium dinner speech. Professors Brussard, Laloux, van Willigen, Delogne, Bruyland, Biemond, Niemegeers and Ligthart chaired the eight sessions.

The symposium was attended by an audience of about one hundred. IEEE Membership information was displayed during the symposium.

*Section Chairman: Prof.J.B.H.PEEK, Dennenlaan 10, NL-5671 BX Nuenen, The Netherlands. Tel: +31 4074 3110. Fax: +31 4074 3859.*

## Call for Authors

Artech House is a leading publisher of books, software, and video training courses in telecommunications, optoelectronics, microwave, radar, and electronic devices and materials technologies.

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## FINLAND

By Aarno Lehtola and Jari Jokiniemi

- SYMPOSIUM ON INDUSTRIAL AND ENGINEERING MATHEMATICS - TAMPERE, MAY 23-24 1994, at Tampere University of Technology, Tampere, Finland. Particular emphasis will be placed on signal processing.

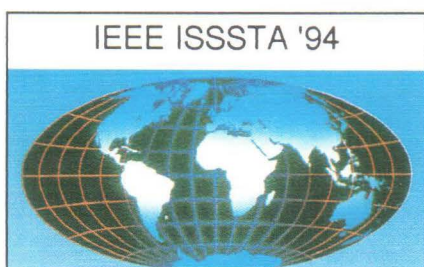
The Finland SP/CAS Chapter is co-organising and sponsoring the symposium. Distinguished Lecturer Prof. Maurice Bellanger will give an invited talk on "Signal AC Matrix, Prediction and Adaptive Filtering". Other invited talks will be given by Prof. Antonio Fasano, Prof. Jussi Rahola and IEEE Fellow Yrjö Neuvo.

For additional information, please, contact Anne Koskinen, tel: +358 31 3162442, fax: +358 31 3162164, e-mail koskinen@butler.cc.tut.fi.

- ISSSTA '94 SYMPOSIUM ON SPREAD SPECTRUM TECHNIQUES AND APPLICATIONS - OULU, JULY 4-6 1994, at the premises of the University of Oulu, Finland.

The symposium is sponsored by the Finland Section, the Communications Society and the IEE; in cooperation with IEICE Spread

Spectrum Technology Group, IEICE Communication System Group, IEICE Information Theory Group, and the Society of Information Theory and its Applications.

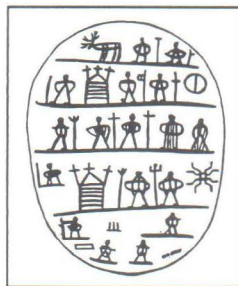


Note the following invited speakers: The opening Session (Monday, July 4, 8.30 a.m.) Dr. Pekka Tarjanne, Secretary-General ITU, Geneva. Professor Solomon Golomb, University of Southern California, USA. On Tuesday, July 5, 8.20 a.m., Dr. Juha Rapeli ETSI/Chairman of Special Mobile Group 5 gives a speech. The Midnight-sun Banquet, Tuesday 8.00 p.m. keynote speaker Professor Yrjö Neuvo, Senior Vice President R&D Nokia Corporation, Finland.

For further details and registration information, please contact symposium coordinator Ms. Laila Tervasmäki, IEEE ISSSTA'94, University of Oulu, Linnanmaa S1, FIN-90570 Oulu, Finland, tel: +358 81 553 2827, fax: +358 81 553 2845, email: laila@ee.oulu.fi.

- ARTIFICIAL INTELLIGENCE RESEARCH - TURKU, FINLAND - AUGUST 29-31 1994

The Finland Section, the Computer Chapter, the Finnish Artificial Intelligence Society (FAIS, main organiser), Åbo Akademi, University of Turku and the Turku School of Economics and Business Administration have organised the Conference.



STeP-94 is intended to be a forum for all research areas on artificial intelligence, including both basic and applied research. Topics will include: approximate reasoning, expert systems, fuzzy systems, natural language processing, machine learning, neural networks, object-oriented programming, pattern recognition and robotics. Future AI applications in business and industry are special themes of the conference and papers on these topics are most welcome.

STeP-94 will be organized in the form of tutorials, symposia, workshops, software presentations and exhibitions.

- For further information, please contact Sinikka Säteri, tel: +358 21 63 83 513, fax: +358 21 63 83 511, email: ssateri@abo.fi

- XX CONVENTION ON RADIO SCIENCE - SON-DANKYÄ, 27-28 October 1994, at the Geophysical Observatory, Sodankylä, Finland.

The main topic chosen for this year's meeting is ionospheric and plasma research. In addition there will be sessions on remote sensing, radio astronomy, and measuring techniques.

The convention is sponsored by IEEE Finland Section, URSI Finnish National Committee, EIS, SIL-T, and Helsinki University of Technology Institute of Radio Communications (IRC). For more information contact: Tauno Turunen, Director of Sodankylä Observatory. Tel. 9693 619 811. Fax. 9693 14157; or Ari Sihvola, Helsinki University of Technology. Tel: +358 0 451 2261. Fax: 35 80 451 2267- email ari.sihvola@hut.fi.

Section Chairman: Aarno Lehtola, Nuottakunnantie 3B9, SF-02230 Espoo, Finland. Tel: +358 0 456 6032. Fax: +358 0 456 6027. E-mail Aarno.Lehtola@vtt.fi (or sec.finland@ieee.org).

## FOR STUDENTS

by Roman Mittendorfer

### INTERNATIONAL SAC MEETING

The IEEE Student Activities Committee meets twice a year; the last meeting, attended by both D.C.J. Poortvliet and R. Mittendorfer, was held in Region 3 at Tampa, Florida. An intensive 3 days were spent on topics which included: student branch and section interaction (student Branch Mentor, ...), membership development (graduated member dues, new and up-to-date posters, ...), ROOT disk and Outstanding Student Design Award. It emerged that there were other topics which needed further study; these were: an International Student Paper Contest, retain "young members" (graduating and recently graduated), Branch Counsellor recognition and a Branch officers pocket calendar. Sub-committees were formed to find solutions to these problems and report back at the next meeting.

The next SAC meeting will be held on October 14-16 1994. If you have any comments or suggestions which you would like your representatives to consider at the meeting, please contact Mr. Poortvliet or me (addresses and telephone numbers are below). We will make every effort to bring your concerns to the committee's notice.

### MISCELLANEOUS

For student branches that hold elections in the spring, outgoing officers are encouraged to train the incoming officers. Remember to send to IEEE Headquarters your New Officers form if there has been a change.

If you have any suggestions or corrections to the ROOT disk please let me know.

We encourage each student branch to set up an e-mail alias. IEEE is expanding its use of e-mail as a means of connecting members and the various entities of IEEE to one another.

"Use e-mail - no more glue on your tongue!"

### RSAC and RSR ADDRESSES

Region 8 Student Activities Committee Chairman: Dick C. J. Poortvliet, T.N.O. Research Unit, Westeinde Hospital, EEG Dept., Lijnbaan 32, 2512 VA, The Hague, The Netherlands. Tel: +31 70 330 2721. Fax: +31 70 380 9459. E-mail: d.poortvliet@ieee.org poortvliet@mbi.mo.nl

Region 8 Student Representative: Roman Mittendorfer, Muenzgrabenstr. 244/2/14 A-8010 Graz, Austria. Tel: +43 316 873 7274, Fax: +43 316 873 7266. E-mail: r.mittendorfer@ieee.org or mittendorfer@flug.dnet.tu-graz.ac.at



## United Kingdom & Republic of Ireland

MTT/ED/AP Joint Chapter

By Mr. Terry H. Oxley

The Chapter would like to draw attention to the following activities of international interest:

### ● Second European Chapter Workshop - "CAE, Modelling and Measurement Verification"

- Wembley Conference Centre London, 24th October 1994. Held in conjunction with "Microwaves 1994" and in cooperation with the IEEE MTT Society and the IEE. Contact: TPC Chairman, Professor J.A.C. Stewart, Department of Electrical and Electronic Engineering, The Queen's University of Belfast, Ashby Building, Stranmillis Road, Belfast BT9 5AH. Tel: +44 232 245133. Fax: +44 232 667023.

### ● Call for Papers (Deadline 15th September 1994)

**EDMO '94 "2nd Workshop "High Performance Electron Devices for Microwave and Optoelectronic Applications".** at King's College London, 14-18 November 1994. In cooperation with the IEEE ED & MTT Societies and the IEE. Contact: Workshop Chairman, Dr. Ali Rezazadeh, Department of Electronic & Electrical Engineering, King's College, Strand, London WC2R 2LS. Tel: +44 71 873 2879. Fax: +44 71 836 4781. E-mail: A.Rezazadeh@UK.AC.KCL.CC.OAK (Janet Network)

### ● LEOS Conferences.

**OFS10 - 10th Optical Fibre Sensors Conference.** Hilton Hotel Glasgow, 11-13th October 1994. In association with the University of Strathclyde, co-sponsored by the IEEE Lasers & Electro-optics Society.

Associated with

**ECSSM2 - 2nd European Conference on Smart Structures & Materials.** Hilton Hotel Glasgow, 12-14th October 1994. Contact: Professor Brian Culshaw, University of Strathclyde, Royal College Building, Glasgow G1 1XW, Scotland. Tel: +44 41 552 4400 x2543. Fax: +44 41 552 2487.

Chapter Chairman: Mr. Terry H. Oxley, "Tremont", Back Lane, Halam, Southwell, Newark, Notts NG22 8AG England. Tel: +44 636 815510. Fax: +44 636 815865.

## Region 8 CS Chapter Chairmen.

The 1994 Symposium on Circuits & Systems will be held in London; 31.05 - 03.06; During the symposium there will be a meeting of the Region 8 Chapter Chairmen. Sections in the Region having no CS chapter are invited to send a representative, who should preferably be nominated by the Section Chairman. For further details please contact the Region 8 CS Coordinator, Prof. Davies - address below.

**Specialist Workshop on Non-linear Dynamic Systems.** Krakow, Poland, 29-30th July 1994. Intending participants who have not yet registered should contact:

Prof. Maciej: Ogorzalek (Krakow) E-mail: maciej@uci.agh.edu.pl

Prof. A.Davies: (London) E-mail: tonydavies@bay.cc.kcl.ac.uk

Prof. W. Schwarz (Dresden). E-mail: schwarz@iee.et.tu-dresden.

## Practical Design and Testing of Monolithic Microwave Integrated Circuits

Summer School, Orsay University - France

September 19-23 1994

Organised by: Institut d'Electronique Fondamentale  
Comett-Euroform, Ensea Cergy, Université Paris VI

### SCOPE & METHODOLOGY

- A clear objective: You will acquire the skills necessary for circuit design and characterisation. An overview of MMIC applications and trends in millimeter waves.
- An efficient teaching methodology: Based on an optimum balance between practical training and theoretical background with general lectures and specific courses given by experts from industry, practical workshops, poster sessions and manufacturer visits.
- Impressive educational hardware: RISC CAD workstations with foundry, smart libraries, MMIC components and circuits, millimeter wave Automatic Network Analyser with on-wafer probing station and high resolution video systems

### VERY ATTRACTIVE LOW FEES

Fees for 5 days: including teaching fees, course material, lunches, refreshments and poster session dinner.

Registrants from Industrial companies : 6000 FF

Registrants from Universities : 4000 FF

PhD Students : 2000 FF

Recommended 5 days accommodation: dinner, bed & breakfast  
at Orsay University : 1800 FF

### GENERAL SECRETARY AND REGISTRATION

Pre-registration deadline : June 24th 1994: Secrétariat de l'école,  
"MMIC", Institut d'Electronique Fondamentale, bât 220 - F91405,  
ORSAY. Tel: +33 1 69 41 78 55. Fax: +33 1 60 19 25 93

## Egypt - Alexandria, North-delta Subsection

By Dr. Khamies El-Shennawy



I should like to start with my best wishes for 1994. Greetings to all our members and welcome to new members who have joined in 1993. The Alexandria subsection has grown rapidly both in numbers and activities.; our members are very active and I should like to thank them for their efforts, which I hope will continue in 1994.

The following are planned for 1994:

1. Cooperation in the organisation of a national computer society in Alexandria. Further information can be obtained from Prof. Yousri El-Gamal, head of the computer scientific society and Dean of the Engineering Faculty in the Arab Maritime Transport Academy, PO 1029, Alexandria.

2. Cooperation in the organisation of the fourth conference on "The Computer between Theory and Applications", September 1994, Alexandria.

3. Cooperation in the organisation of the "Eleventh National Radio Science" conference, Cairo, Egypt, 22-24, March 1994

Please feel free to contact me or any of our committee members for further information and we shall be happy to hear from you.

Secretary/Treasurer: Dr. Khamies M. El-Shennawy, Arab Maritime Transport Agency, Miami PO 1029, Alexandria, Egypt.



## 1994 Region 8 Distinctions - By Professor E. Folke Bolinder

### Fellows

#### South Africa

**Johannes A.G. Malherbe**

For contributions to the development of education in electromagnetics, and to microwave design techniques.

#### Austria

**Hermann Kopetz**

For contributions to the field of fault-tolerant real-time local-area distributed systems

**Hans W. Poetzel**

For contributions to education and research in the field of semiconductor physics and device modelling

#### Croatia

**Vladimir M. Muljevic**

For leadership in cybernetics and control engineering education, and in the history of technology.

#### Finland

**Antti V.A. Räisänen**

For contribution to and leadership in millimeter-wave receiver technology

#### Germany

**Kurt J. Antreich.**

For contributions to computer-aided tolerance design of electronic circuits and computer-aided layout design of integrated circuits

**Jens P. Blauert**

For contributions to binaural technology

**Dusan Povh**

For contributions to the analysis of ac and dc systems and control of high-voltage dc converters

**Peter H. Russer**

For fundamental contributions to noise analysis and low-noise optimisation of linear electronic circuits with general topology

**Werner Wiesbeck**

For contributions to wide-band polarimetric radar metrology.

#### Hungary

**Tibor Berceli**

For contributions to the fields of microwave photonics and nonlinear microwave circuits

**Sándor Csibi**

For contributions to Markovian methods in multi-access communications and to engineering education.

#### Israel

**Uri Shaked**

For contributions to the theory of singular optimal estimation and to linear control theory

**Shlomo Shami**

For contributions to Shannon theory as applied to the evaluation of the reliability of communication channels.

**Mati Wax**

For contributions to sensor array signal processing and model selection

**Ehud Weinstein**

For contributions to the application of statistical methods to signal processing and time delay estimation

#### Central & South Italy

**Giorgio M. Picci**

For contributions to the modelling and realisation of stochastic systems

#### North Italy

**Luigi F. Malesani**

For contributions to research, education, and industrial development in power electronics

**Alberto Pigini**

For leadership in high-voltage research with special reference to external insulation, diagnosis and testing of power apparatus.

**Vittorio Rizzoli**

For contributions to the simulation and design of nonlinear microwave integrated circuits

#### Romania

**Mihai D. Drăgănescu**

For contributions to the field of electron devices and for leadership in developing electron device education in Romania.

**Petre Stoica**

For contributions to statistical signal processing and system identification.

#### Sweden

**Andreas Kelen**

For leadership in the application of partial discharge analysis to machine insulation

#### Switzerland

**Konrad Reichert**

For contributions to the analysis of electromagnetic fields, and the planning and operation of power systems by means of numerical methods.

#### United Kingdom and Republic of Ireland

**Colin S. Aitchison**

For contributions to the design of microwave active circuits.

**Anthony C. Davies**

For contributions to the theory and analysis of active networks.

**Gerard T. Wrixon**

For contributions to millimeter-wave and photo-voltaic systems technology, and for leadership in education and academic research.

#### No Section Assignment (Oman)

**Asser A. Zaky**

For leadership in electrical engineering education and contributions to the understanding of conduction and breakdown in dielectric liquids.

### Field Awards

#### IEEE Award in International Communications

**Stephen Robin Temple (Non-Member)**; Director of Technical Affairs, Telecommunications and Posts Division, Dept of Trade & Industry, England.

For contributions to the development and furtherance of worldwide telecommunication standards

#### IEEE Judith A. Resnik Award.

**Johannes Dietrich (Non-Member)**; Chief Engineer and research project leader for Mechatronics Research, German Aerospace Research Establishment-Germany

For the development of a successful high-performance, rugged, multi-sensor, miniaturised robotic gripper for use in the outer space environment

### Medals

#### IEEE Lamme Medal

**Michel E. Poloujadoff (FIEEE)**; Professor, Université Pierre et Marie Curie, Paris France

For advancements in the theory and application of high-power electromagnetic apparatus, including transformers and electronically controlled machine drives

#### IEEE Medal for Engineering Excellence

**Heinrich Sussner (MIEEE)**; Executive Consultant to the Director of Marketing, IBM World Trade, Paris France.

For engineering leadership in the demonstration of one gigabit per square inch storage density on a digital magnetic rigid disk.

#### IEEE Richard W. Hamming Medal

**Gottfried Ungerboeck (FIEEE)**; IBM Fellow, IBM Zurich Research Laboratory, Switzerland.

For the development and application of trellis modulation to digital communications

### Honorary Memberships

**Michel Carpentier (Non-member)**; Director General, Directorate General XIII, Telecommunications, EEC, Belgium.

For leadership in pioneering the R&D and policy initiatives at the European Community level in the areas of environment, information and communication technologies

**Ralph E. Gomory (Non-member)**; President, Alfred P. Sloan Foundation New York, NY

For outstanding leadership of the research activities of IBM, and the resulting technological benefits to IBM, and the computer and semiconductor industries.



## Region 8 Conference Record

### INSERTS IN REGION 8 NEWS

No of Inserts	Weight of one Insert - gms				
	5-10	10-20	20-30	30-40	40-50
	£ Sterling	£	£	£	£
5,000	350	500	650	800	950
10,000	700	1,000	1,300	1,600	1,900
15,000	1,050	1,500	1,950	2,400	2,850
20,000	1,400	2,000	2,600	3,200	3,800
25,000	1,750	2,500	3,250	4,000	4,750
30,000	2,100	3,000	3,900	4,800	5,700

Separate advertising *Inserts* can be mailed with Region 8 News; they may be single sheets A4 or less, any size folded to A4 or less, or bound booklets. If required, inserts can be printed from camera-ready material supplied by the customer, or typeset from a customer's copy - there is no charge for layout. A variety of selective mailings is available, based on geography or on members' technical interests. Special mailings at times other than the Region 8 News publication dates are also available. Details from the editor.

### Second International Summer School on Advanced Broadband Communications

**Madrid, Spain  
&  
Aveiro, Portugal**      **11-15 July 1993**

#### Distributed Summer School - Advanced Communications

Organised by RACE Project R.2095 BRAIN,  
Local support from ETSI Telecommunications,  
Universidade de Aveiro, CET-Telecom Portugal  
and Telefonica, I+D,SA

Lectures, tutorials, syndicate sessions + dem-  
onstrations of ATM based communications;  
different physical sites will be joined in a unique  
virtual room during the whole Summer School.

#### Further Information

##### Madrid (Central)

Dept. Ing Telematica (SS'94)  
ETSI Telecommunication  
E-28040, Madrid,  
Spain  
+34 1 3367332  
34 1 3367333  
SS94@dit.upm.ca

##### Aveiro

Summer School 94  
Dept. Electrónica e Telecom.  
Universidade de Aveiro,  
3800 Aveiro, Portugal  
+351 34 381937  
+351 34 381941  
SSABC94@ua.pt

Erlangen, Germany

21-23 June 94

#### ICASSE 94: First International Conference on Applied Synergetics and Synergetic Engineering

Mr. Thomas Wagner: Fraunhofer-Society, Am Weichselgarten 3,  
91058 Erlangen - Tennenlohe. Tel: +49 9131/776-544 or 501.  
Fax: +49 9131/776-599. Email: wag@iis.fhg.de

Heriot-Watt University, Edinburgh, UK

12-14 Dec 1994

#### International Conference on Life Management of Power Plants

LMPP '94 IEE Conference Office, Savoy Place, LONDON WC2R 0BL  
Fax: +44 71 497 3633

Brighton, UK

16-18 May 1995

#### European Convention on Security & Detection - ECOS

ECOS '95 IEE Conference Office, Savoy Place, LONDON WC2R 0BL  
Fax: +44 71 497 3633

Heriot-Watt University, Edinburgh, UK

3-6 July 1995

#### Fifth International Conference on Image Processing and its Applications

IPA '95, IEE Conference Office, Savoy Place, LONDON WC2R 0BL  
Fax: +44 71 497 3633

Churchill College, Cambridge, UK

26-28 June 1995

#### Fourth International Conference on Artificial Neural Networks

ANN '95, IEE Conference Office, Savoy Place, LONDON WC2R 0BL  
Fax: +44 71 497 3633

Davos, Switzerland

31 May - 2 June 1994

#### The 6th International Symposium on Power Semiconductor Devices & ICs - ISPD '94

Prof. Wolfgang Fichtner, Integrated Systems Laboratory, ETH Zentrum,  
CH-8092 Zurich, Switzerland. Tel: +41 1 632 53 33  
Fax: +41 1 252 09 94. e-mail: fw@iis.ee.ethz.ch

Glasgow, Scotland

11-13 October 1994

#### 10th Optical Fibre Sensors Conference

Contact: Mrs. Aileen Mitchell, OFS(10) Conference Secretary  
University of Strathclyde, Royal College Building, Glasgow, G1 1XW  
Tel: +44 41 552 4400 Ex2543 Fax: +44 41 552 2487

Glasgow, Scotland

12-14 October 1994

#### Second European Conference on Smart Structures & Materials

Contact: Miss Linda Paterson, Smart Structures Research Institute,  
University of Strathclyde, Royal College Building, 204 George St.,  
Glasgow G1 1XW. Tel: +41 552 4400 Ext 2463. Fax: +41 552 4774.