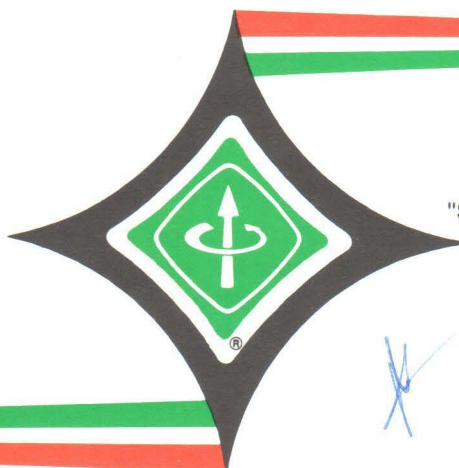


IEEE

Region 8 News

No 104 - November 1993

Europe, Middle-east and Africa



Editor

Dr.G.H.Byford
"Sandstones", Crooksbury Road
Runfold, Farnham, Surrey
England, GU10 1QB

Tel: (+44) 252 782625

Fax: (+44) 252 783020

South Africa

Professor D. C. Baker

August '93 saw the presentation of two successful symposia: the Antennas and Propagation, and Microwave Theory and Techniques Symposium (AP/MTTS), and the Signal Processing and Communications (COMSIG) Symposium. These symposia have been presented on an annual basis for several years and are a highlight in the Section's calendar of activities.

The AP/MTT-93 Symposium was organised in cooperation with the South African Institute of Electrical Engineers and was held on the 5th August; Dr. Gerry Crone from the European Space Agency's Research and Technology Centre in Noordwijk, the Netherlands was the invited speaker. The title of his keynote lecture was "Spacecraft Antenna Design and Applications". This was followed by two papers from local authors, also dealing with space related topics. A further twenty four papers were presented in each of two parallel sessions dealing broadly with antennas and propagation, and microwave theory and techniques, and in a poster session. As in previous years the bulk of the papers were drawn from academia.

The COMSIG-93 Symposium was held on the 6th of August at the same venue as AP/MTTS-93. The symposium was organised by the IEEE COMSIG Chapter, the keynote address being presented by Dr. David H. Jacobson of ALCATEL ALTEC TELECOMS. In two parallel sessions a total of 44 papers were presented; they were divided into eight topics, which amongst others included cryptography, image processing and pattern recognition, rural communications, and radar and neural networks. As was the case with AP/MTTS-93, the bulk of the papers were drawn from academia.

Both symposia were well supported by delegates and exhibitors despite the present stringent economic climate. Dr. Crone's visit was made possible by the generous support of a number of sponsors drawn variously from industry and professional societies.

Details of papers presented at these symposia may be obtained from this author at the contact address below. Plans for next year's symposia are currently being finalised; interested colleagues can be placed on the mailing list at their request.

AFRICON '92 was an undoubted success; following that success will be a similar conference - arrangements are being

made for AFRICON '95. Further information will be made available to Region 8 colleagues as details are finalised.

*Prof. Duncan Baker, Dept of Electrical & Electronic Engineering,
University of Pretoria, 0002 Pretoria, South Africa. Tel: +27 12 420
2775. Fax: +27 12 43 3254 E-mail duncan.baker@ee.up.ac.za*

Good Housekeeping

By Professor Charles W Turner - Director Region 8.

The two key elements necessary for the growth of technical activities in our Region are finance and volunteer effort; in both cases there are causes for optimism, as well as concern that the availability of these resources is very unevenly distributed over our 37 Sections. One of the tasks of your Region 8 Committee is to ensure that more resources are directed to growth points in the Region, as well as to encourage the adoption of good housekeeping habits in Sections with significant funds that have been generated from technical activities such as Chapter events and conferences.

The staff at Headquarters in Piscataway have been strongly promoting 'quality' in all aspects of the IEEE's affairs, especially in membership services. More detailed descriptions of recommended codes of practice will be given in Region 8 News next year, but we can begin the process now. For example, we should ensure that all Section, Chapter and Conference finances are audited appropriately and that all required reporting back to Piscataway is carried out efficiently, to meet the deadlines laid down. Too many Sections in our Region have not filed timely reports in recent years and have thereby had rebates withheld. The question of the 'ownership' of surplus funds generated from IEEE organised or sponsored events, such as conferences, needs to be confronted at the planning stage well before the financial outcome is known. The use of the Institute logo carries implied responsibilities; it should be used only with a clear understanding of the level of accountability appropriate in each case. It should not be used where there is no active participation from the IEEE or when no prior financial protocol has been agreed.

Codes of good practice, the avoidance of conflicts of interest, and an acceptance that it is ultimately in all our interests to impose proper financial controls, are matters worth the earnest consideration of all IEEE volunteers organising meetings, whether they are shovelling snow or basking in the summer sun at this end of '93!

FRANCE

By Mme. Frédérique Vallée

CONFERENCES.

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

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, Université 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).

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).

ICHPS-VI, ERRATUM : ICPH-VI will be held in Bologna, Italy, (and not in Paris, France), [september 94]. (inf. : M. Gian Carlo Montanari, Università degli studi di Bologna, Facoltà di Ingegneria, Istituto di Elettrotecnica Industriale, Viale Risorgimento 2, 40136 Bologna, phone : (39) 51 6443471, fax : (39) 51 6443470).

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 of all 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, secrétariat général 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).

ULTRASONICS Symposium, Cannes, France [Hôtel Martinez, november 1-4, 1994]. (inf. : M. Gérard Quentin, Université Paris VII, 2 place Jussieu, 75251 Paris Cedex 05, France, phone : (33) 1 43 29 51 22, fax : (33) 1 43 54 28 78).

JINA 94, 8th International Conference on Antennas, Nice, France, [november 8-10, 1994]. (inf. : Secrétariat

JINA 94, CNET-PAB, Centre de La Turbie, 06320 La Turbie - France, fax : (33) 93 41 02 29, télex : 470159F).

NEWS IN FRENCH

Conférences de l'A.R.E. : Dans le cadre des accords passés entre l'A.R.E. (Conférences du soir des Anciens de la Radio et de l'Electronique) et la Section française de l'I.E.E.E., nous annonçons les conférences suivantes :

"La génération de puissances (moyennes) très élevées en microondes" (par Georges Mourier, Conseiller Technique à Thomson-Tubes Electroniques, 3 novembre 1993).

"Les transmissions dans la Marine Nationale" (par le C. V. Christian Ract-Madoux, Chef du Bureau Transmissions à l'Etat-Major de la Marine Nationale, 8 décembre 1993).

"L'entrée de l'électronique (et de la physique) à l'hôpital" (par Daniel Blanc, Directeur du Centre de Physique Atomique de l'Université Paul Sabatier, 12 janvier 1994).

"Le point sur la T. V. H. D" (par Michel Favreau, ancien Ingénieur en Chef à Thomson-CSF, Division Radio Télévision, 23 mars 1994).

"Le Big Bang : l'expansion et l'inflation de l'univers - point de vue d'un ingénieur", par Philippe Magne, ancien Directeur Technique de la Division Faisceaux Hertiens de Thomson-CSF, 27 avril 1994).

Ces conférences auront lieu à 17h, dans la salle n° 11 de la FIEE, située au quatrième étage du 11 rue Galilée, PARIS 16ème - Métro Boissière ou Iéna. L'entrée est gratuite, des rafraichissements sont servis pour clôturer sympathiquement la séance. Pour tout renseignement ou confirmation, s'adresser à Mme Birckel, 193, rue du Faubourg Saint-Martin, 75010 Paris, tél : (1) 46 07 40 77.

Conférences organisées par le chapitre EMC:

Le chapitre EMC organise un cycle de conférences du soir:

31 janvier 1994, EMC et les Méthodes de Mesures et de Tests, par M. Chaumat (SNPE) et D. Mayer (LEAD),

30 mars 1994, EMC et le rôle des transferts EM : fils, câbles et structures à propagation, par M. Kirschvink (câblerie d'Eupen) et D. Mayer (LEAD).

Ces conférences seront payantes (100

FF). (inf. Club 25, SEE, 48 rue de la Procession, 75724, Paris Cedex 15, tél. : (33) 1 44 49 60 17, fax : (33) 1 44 49 60 49).

LES MARDIS

PARALLÈLES DE L'IEEE:

Le groupe de travail intitulé "Parallélisme et systèmes distribués" fonctionne les mardis après-midi, une fois par mois, au CNAM de Paris. (inf. J.F. Myoupo - Université Paris Sud - CNRS URA 410, LRI, bat. 490, 91405 Orsay, tél : 69 41 66 34, ou C. Cérin, Université de Picardie Jules Verne, UFR de Mathématique & Informatique, LAMIFA, 33, rue St Leu, 80039 Amiens, tél : 69 41 70 82).

Section Chairman: Mr. Maurice Papo, 14 Bd. Prince des Galles 06000, Nice, France. Tel: +339381 4112. Fax: +339353 2673

Egypt

By Professor Abdel-Latif Ahmed

1. We received recently the approval for the establishment of the Control Systems Chapter. Dr. Iraki, the Organizer of the Chapter, gave an inaugural technical talk on September 12th 1993 on Modern Control Systems - theories and applications

2. A workshop on modern telecommunications was held in cooperation with the national UESI committee in February 1993 in the National Institute for Telecommunications.

3. The IEEE Egypt Section also sponsored a one day workshop on Neural Networks and their applications in May 1993

4. A campaign has been arranged to develop the IEEE membership and retain students after graduation

5. The Alexandria subsection is quite active. They started with four technical meetings and they are arranging three more before the end of the year.

6. The Egypt Section is honoured by the visit of the IEEE President, Dr. Martha Sloan, from 23rd-25th October 1993.

Chapter Chairman: Prof. Abdel-Latif Ahmed, 59 Madinet El-Ilam, FI-410 Agouza, Cairo, Egypt.

Tel: +3580 456 6032 Fax: +3580 456 6027

Melecon '94 - Antalya 12-14th April 1994

By Dr. J. Baal-Schem

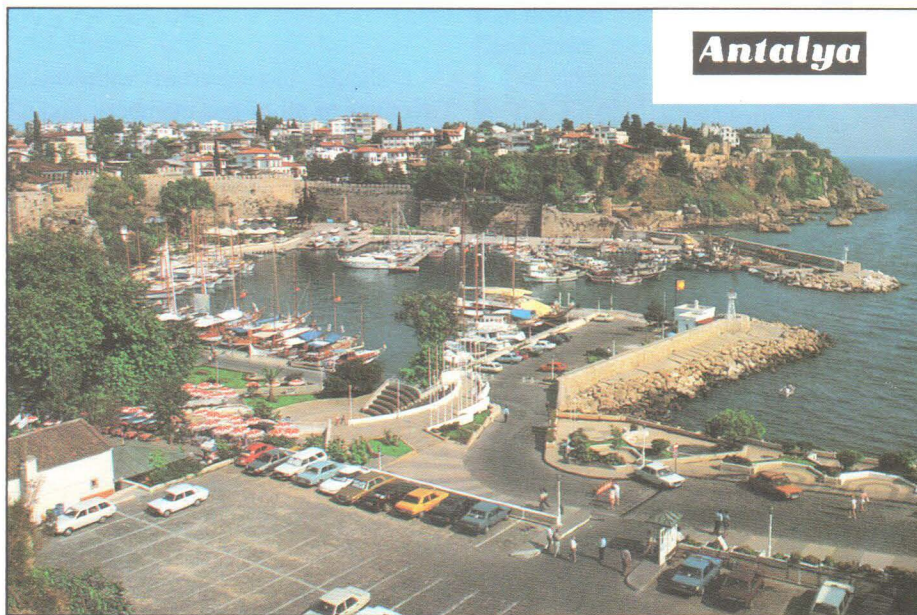
More than 500 abstracts have been received by the Technical Programme Committee of MELECON '94 and about 300 papers will be accepted for presentation at the Conference. The papers originate from 43 countries, many from outside Region 8: USA, Canada, Venezuela, India, Japan and China. Of the 50 sessions planned to be held during the 3 days of the conference in 5 parallel tracks, 13 sessions will deal with subjects in Telecommunications and Digital Signal Processing, 7 with subjects of Fields, Waves and Antennas, 5 in Control & Robotics, 6 in Electrical Machines & Power Electronics and 4 in Power Systems. Six sessions will discuss problems in Electronics and three will be devoted to Computers. Two "special" sessions will deal with the subjects of Engineering Education and Fault Tolerant Systems.

MELECON '94 will host 5 Distinguished Speakers who have accepted the invitation of Conference Chairman Prof. Tuncay Birand of METU, to bring their views on recent developments in the different fields covered by the conference:

- Prof. David Allstot from Carnegie Mellon University U.S.A.

- Prof. P.J.B. Clarricoats from Queen Mary & Westfield College, UK
- Prof. Alfio Consoli from University degli studi di Catania, Italy
- Prof. Toshio Fokuda from Nagoya University, Japan
- Dr. Jim K Omura, Chairman of "Cylink Corp.", USA

A special time-slot has been assigned in the middle of the Conference for the



Annual Student Papers Contest, where the best Student papers will be presented in front of the Contest Jury and MELECON participants. This is a good opportunity for representatives of industry to meet some of the most brilliant students of Region 8 Universities. Turkey's industry has shown its interest in the Conference through financial support.

Dedeman Hotel in Antalya, Turkey has been selected to host MELECON '94 and the dates chosen are from Tuesday 12th April to Thursday 14th April 1994, enabling many of the attendees to prolong their stay into the weekend.

The historic nucleus of Antalya is its Old Quarter (Kaleici), which is restored and has become an attractive tourist centre, with taverns, restaurants and entertainment facilities. Its narrow streets lead to the old harbour, now an international yachting marina. The Antalya Museum covers an area of 30,000 square meters; about five thousand archeological works are displayed in thirteen galleries, including a gallery where children can be left to play.

During the conference itself a Get

Together Cocktail Party will be offered to all participants and spouses by Teletas Company and a banquet dinner will feature folklore dances. Tourist and Technical Visits will be organised for Spouses and Attendees to interesting sites around Anatolia.

MELECON conferences are known for the openness of the participants and the good spirit that develops among all at-

tendees and their accompanying persons. The lectures during the conference will challenge the minds of participants. The small restaurants - some in historic settings - will provide the atmosphere for even better and lasting contacts between colleagues. Anatolia says Merhaba (Hello) to all of you.

For an Advance Programme and registration form, send your address to Prof. Yildirim Uctug, Middle East Technical University, Ankara, Turkey..

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

E-mail: jbs12@taunivm.tau.ac.il

Video-conferences

By Professor Dr. Kurt Richter

As a result of the experience and further information which I have received since the announcement about video-tapes published in Region 8 News - May 1993, I have changed the arrangement for supplying tapes. In future the tapes will be for sale only, whether to members or non-members.

For members in a needy Section I am prepared to consider a formal financial arrangement in cooperation with the Chairman of the Section. The price for tapes of video-conferences broadcast before May 1992 is \$695.00 for non-members and \$450.00 for IEEE members; for both there is an additional charge of \$5 for postage and packing. For tapes of video-conferences broadcast after April 1992 the price is \$795.00 for

non-members and \$495.00 for IEEE members, plus \$5.00 for postage and packing. The payment has to be strictly in advance.

In a future issue of Region 8 News I shall give further information on educational material available from the IEEE.

E-mail: richter@igte.tu-graz.ac.at OR k.richter@IEEE.org.

Tel: +43 316873 7250. Fax: +43 31683 1946

March 8-11 1994

Torino, Italy

Four-day Short Course on

Computational Techniques for EM Applications

J.B.Davies, R.D.Graglia, R.Mitra, D.R.Wilton

Topics will include: EMC, Antennas, Radar,
Propagation in Optical Components and
Systems

Secretariat: Fabrizia Stagni - COREP - Politecnico di Torino,
c.so Duca degli Abruzzi 24, 10129 Torino, Italy

Tel: +39 11 5645108. Fax: +39 11 5645199

E-mail: GRAGLIA@ITOPOLI.BITNET OR GRAGLIA@POLITO.IT

NORTH ITALY

by Dr. Alessandro Gandelli

The North Italy Section has been involved during 1993, in several activities supported by resident Chapters; further programmes have been planned for the remainder of the year

The IM Chapter elected its Executive Committee this spring. It organized for the second time a successful Workshop on "Power Definitions and Measurements under Nonsinusoidal Conditions". The Workshop was chaired by Prof. Alessandro Ferrero, from the Department of Electrical Engineering, Politecnico di Milano, Italy and was held in Stresa from September 8th to September 10th, 1993. It represented the ideal continuation of the first International Workshop, held in Como in 1991, and had the same leading aim of giving some of the most qualified experts in the field of nonsinusoidal systems the opportunity to meet, exchange and discuss their theories and solutions to very important problems related to this field. Many of the experts present at the conference took part in the animated, deep and fruitful discussions on the main topics of the Conference; all the participants agreed to meet again in 1995 during the Third Workshop to continue the development of this interesting and developing field of studies.

Future plans of the Section and the IM Chapter involve also the organization of an International Workshop on "Mathematical Methods in Electrical and Electronic Measurements" (July 8-10th, 1994, Como, Italy) and the "Third Volta Colloquium on Partial Discharge Measurements" (August 31st-September 2nd, 1994).

The PES-IE joint Chapter too, elected its Executive Committee at the end of last May and organized a well-attended Two days Course on "AC Motor Drives Technology" chaired by Prof. T. A. Lipo, University of Wisconsin-Madison, in Vicenza, May 27-28, 1993.

During next month the Section and Computer Society will cosponsor the "1993 IEEE International Workshop on Defect and Fault Tolerance in VLSI System", Venice, October 27-29, 1993, and has cooperated in ASAP '93 "The Application of Specific Array Processors" - Venice 24-26

October. The Section and Industrial Electronics Society will cosponsor the "IECON '94 - 20th Annual Conference on IEEE Industrial Electronics", in Bologna, Sept. 5-9, 1994.

Other Chapters are planning their 1994 activities and more local events will be cosponsored jointly with Italian Electrical and Electronic Society (AEI), which cooperates efficiently, and with excellent agreement, in Section activities.

Chapter Chairman: Professor Luigi Dadda, Dep Eletttronica,
Politecnico di Milano, Piazza Leonardo da Vinci 32, 20133 Milano,
Italy. Tel: +39 2 2399 3510. Fax: +39 1 2399 3411

TURKEY SECTION

By Ayhan Altintas

I should like to start with my best wishes for 1994. Greetings to all of our members, and a very warm welcome to new members who have joined the IEEE in 1994.

Some of the main activities of Turkey Section planned for 1994 are as follows:

1-) The organization of **MELECON'94 in Antalya**, Turkey in 12-14 April 1994. (Contact: Prof. Onder Yuksel, Middle East Technical University, Dept. Electrical and Electronics Eng., Ankara, Turkey. E-mail: melecon@trmetu-bitnet)

2-) The IEEE Bilkent Student Branch is planning a Meeting for international students attending MELECON'94. So, the participants in this programme will enjoy a first class holiday in Turkey in addition to attending MELECON'94. The visit includes a tour of Istanbul, Antalya, Izmir and Aegean Coast. For further information please contact: Burak Acar, IEEE Bilkent Student Branch, Bilkent University, Dept. EE, Bilkent, Ankara, Turkey. E-mail: ieecsb@ee.bilkent.edu.tr

3-) We are cooperation in the organization of the **Second National Workshop on Signal Processing** in Marmaris, Turkey in 8-9 April 1994. Further information can be obtained from Professor Enis Cetin, Bilkent University, Dept. EE, Ankara, Turkey. E-mail: cetin@ee.bilkent.edu.tr

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

Best wishes from,

Section Chairman: Mr. Ayhan Altintas, Bilkent University, Dept.
Elec. Eng., Ankara 06533, Turkey. Tel: 90-4-266-4040 Ext: 1489,
Fax: 90-4-266-4127

E-mail: altintas@trbilun.bitnet or altintas@ee.bilkent.edu.tr.

ICHIPS VI

International Conference on Harmonics in Power Systems

September 21-23 1994 - Bologna, Italy

Contact: Prof. Gian Carlo Montanari, Istituto di Elettrotecnica
Industriale, Università di Bologna, Viale Risorgimento 2, 40136,
Bologna Italy. Tel: +39 51 64443471. Fax: +39 51 644 3470.
E-mail: elettrotind5@ingbol.cineca.it

Obituary

It is with great regret that we announce the death of Professor V.I. Siforou, Fellow of the IEEE and Past President of the Russian Technical Society for Radio Engineering, Electronics and Telecommunications Engineering. He died on Sunday 3rd October 1993 at the age of 89

His major contributions were in the field of Information Theory and Circuit Theory. He was an ardent supporter of the establishment of good relations between the IEEE and the Popov Society. We extend our sympathy to his family.

FINLAND

By Aarno Lehtola and Jari Jokiniemi

Object Symposium

IEEE Finland Section, EIS, and STeS will organize a Symposium on **Conceptual Modelling and Object-Oriented Programming** (*Käsitteellinen mallittaminen ja olio-ohjelmointi*). The symposium will be held in the main building of University of Tampere on Friday, November 5, 1993, starting at 9.30AM. There will be 18 presentations in 3 sessions: Practice, Modelling, and Software Engineering. There are papers in both English and Finnish, but the presentations are in Finnish. For further information, contact Aarno Lehtola, tel. +358 0 456 6032, e-mail aarno.lehtola@vtt.fi, or Jari Jokiniemi, tel. +358 0 456 6009, e-mail jari.jokiniemi@vtt.fi. Both can be reached at Technical Research Centre of Finland, Laboratory for Information Processing, Lehtisaarentie 2 A, FIN-00340 Helsinki, Finland.

Electromagnetics Symposium

MTT/AP Finland Chapter will be co-organising the Workshop **Bianisotropics '93**, to be held in 12-14th October 1993 at Gomel State University, Belorussia. The Workshop is a continuation of Bi-isotropics'93 (held in Espoo, Finland), and will focus on the electromagnetics and microwave applications of new materials. For those interested in participating in the workshop, please contact Ari Sihvola, Helsinki University of Technology, Electromagnetics Laboratory, 02150 Espoo, Finland, tel. 358-0-4512261, fax 358-0-4512267, e-mail ari.sihvola@hut.fi.

Oulu Student Branch elects officers

The Oulu Student Branch is active again, after the summer vacation. They have a board of eight officers, and about 50-60 members. A sauna-evening was arranged last autumn successfully: Oulu SB enrolled 10 new members. New company visits are being planned for the winter as well as informal social activities. The 1994 board will be selected during November. Until that, contact Chairman Paavo Leinonen, tel. 981-348 057 (ptl@ee.oulu.fi) for further information.

Annual Section Meeting

The Annual Section Meeting will be held on Wednesday December 15th at 15.00. Place: Nokia Telecommunications, Upseerinkatu 1, Espoo. A new executive committee will be elected. In order to obtain instructions on how to propose candidates, please contact Jari Jokiniemi (address in column 2). The meeting is jointly arranged with the Computer Chapter.

You are kindly requested to register your participation to Jari Jokiniemi, tel: 90 456 6009, fax: 90 456 6027, Email: Jari.Jokiniemi@vtt.fi. Please include your name, telephone number and employer in your registration.

Section Chairman: Aarno Lehtola, VTT, Technical Research Centre of Finland, Laboratory for Information Processing, Lehtisaarentie 2A, FIN-00340, Helsinki, Finland. Tel: 358 0 456 6032

Fax: 358 0 456 6027. E-mail: aarno.lehtola@vtt.fi

GREECE

By Professor B.C. Papadias

The "Athens Power Tech" Joint International Conference was held on 5-8th September 1993 in Athens at the "Megaron" Conference Centre, addressing Planning, Operation and Control of electrical power systems. The conference was organised by the Electric Energy Systems Laboratory of the National Technical University of Athens in cooperation with the Power Engineering Society of the IEEE. Attendance was 400 participants from forty countries and 200 scientific papers were presented in 37 sessions, which covered reliability, operational safety, power electronics, transmission lines, energy management systems, power and voltage management systems, power and voltage stability transient phenomena, wind power and others. There were seven sessions, which included 32 invited papers on system security, open management systems, voltage stability and fuzzy sets. A tutorial on neural network applications in power systems, two technical visits and social events were also included in the Conference.

Section Chairman: Prof. George G. Stassinopoulos, National Technical University of Athens, Div. Computer Science, Heron Polytechniou 9, 15773 Zografu, Athens, Greece. Tel: +30 1 779 3988

FOR STUDENTS

Would you like to join an international visit to Turkey?

By Levent Onural

The Bilkent IEEE Student Branch is organizing a trip for students; it will start in Istanbul on April 9, 1994 (Saturday) and last one week, ending again in Istanbul. The program includes the best historical and cultural sites in Turkey, and two days of the trip will be spent in Antalya during MELECON'94. After about two days in Istanbul, a ten hour bus trip will end up in Antalya. Following MELECON'94, Fethiye, Bodrum, Ephesus and Izmir will be visited, again by bus. Final destination is Istanbul on April 17. The trip will be arranged locally by a professional travel company; accommodation will usually be in two-star hotels. The total cost, including all transportation and accommodation, and two-day MELECON'94 student registration, is expected to be around 350 US dollars. The branch is seeking funding from other sources to obtain an even better price.

There was a similar two-week trip in 1992 with an attendance of about fifty; it was a great success with a lot of fun. If you would like more information please get in touch with me (onural@ee.bilkent.edu.tr) or the Bilkent student branch chairman (ieeesb@ee.bilkent.edu.tr). FAX: + (90) (312) 266 4126. (Levent Onural is a member of the MELECON'94 steering committee in charge of student activities.)

FOR STUDENTS

By Mr. Roman Mittendorfer

REGION 8 STUDENT PAPER CONTEST

André Jan Willem van der Kouwe from the University of Pretoria (South Africa) with his paper entitled "EEG-Based Interface for the Severely Handicapped" earned the first place and a \$1000 cheque at COMPEURO'93 in Paris-Evry, France. Second and third place and cheques for \$300 and \$200 respectively were won by co-authors Ales Casar and Robert Meolic (University of Maribor, Slovenija) and Guido Van den Berghe (Katholieke Universiteit Leuven, Belgium). Holy Slade from the University of Virginia, Charlottesville, USA, the winner of the Region 3 Student Paper Contest, was invited by the Regional Student Activities Committee Chairman, Dick Poortvliet, to present her outstanding paper. This was a first step towards a future International Student Paper Contest. The 1993 Student Paper Contest was a huge success: 14 papers were submitted, 6 were presented in Paris-Evry. Counselors who attended past contests commented that the competition was very keen and that all papers were worthy of prizes. The 1994 Region 8 Student Paper Contest will be held during MELECON' 94 in Antalya, Turkey.



Participants in the '93 Region 8 Student Paper Contest in Paris-Evry from left to right: Guido Van den Berghe (Belgium), Ales Casar (Slovenija), Robert Meolic (Slovenija), Philippe Thissen (Belgium), Hannu Kauppinen (Finland), André Jan Willem van der Kouwe (South Africa), Holy Slade (USA) and the SAC Chair Dick Poortvliet.

E-MAIL

Up to now 34 out of 68 student branches in Region 8 are connected into the IEEE e-mail network. You can get a copy of the branches already connected by sending a message to "directory.sb@ieee.org". Soon all connected branches will receive messages and deadline reminders from IEEE Headquarters. To ensure that your e-mail address is working, send a test message to another student branch or to the RSR.

DEADLINES AND INFORMATION

The Branch Plan is due at the IEEE Headquarters by November 1, 1993. Submission of this plan will earn you \$25 or \$50 - depending on your membership. Remember to send to the IEEE Headquarter your New Officers form and the New Counselor form if there has been a change.

Region 8 Student Representative: Roman Mittendorfer, Mönzgrabenstr. 244/2/14 8010 Graz, Austria. Tel: +43 316 873 7274, Fax: +43 316 873 7266, E-mail: "r.mittendorfer@ieee.org" or

"mittendorfer@fug.dnet.tu-graz.ac.at"

NEW TITLES FROM WILEY

Information Technology on the Move

Technical and Behavioural Evaluations

G. UNDERWOOD, University of Nottingham, UK, F. SOMMERVILLE, Castle Rock Consultants, UK, W. HENGVELD, Bakkenist Management Consultants, The Netherlands, and J.D.M. UNDERWOOD, University of Leicester, UK

The widespread availability of information technology now offers us new solutions to solve the problem of over-crowded, inefficient, environmentally damaging roads. By developing road infrastructures and vehicles that can communicate directly, RTI allows co-operative driving. Covering in-vehicle navigation displays, search techniques, radio messaging and radio data systems, this text describes how IT will improve the road system.

Wiley Series in Communications and Distributed Systems

0471-93850-5 app 254pp due Sept 1993 app £29.95/\$47.95

Road Vehicle Automation

C.O. NWAGBOSO, Bolton Institute, UK

This volume contains 28 papers presented at the First International Conference on Road Vehicle Automation. The field of RVA is making a significant contribution to improving road transport performance and IT and telecommunications offer the potential to provide automated solutions for increasing the performance, safety and reliability of road transport systems.

07273-1806-3 318pp June 1993 £55.00/\$90.95

Published by Pentech Press, UK, Marketed by Wiley

Teleworking Explained

Edited by M. GRAY, UK, N. HODSON, UK, G. GORDON, USA, G. HUDSON, UK, and R. PENNY, UK

Predicted as the way of the future, teleworking encapsulates a wide range of work activities, all of which entail working remotely from an employer. Advances in computer and communications technology are hastening the reality of teleworking and this book will provide essential guidance for both the organizational manager and the employee. The authors analyse the economics of teleworking, the problems of human resource management, and the technology for successful teleworking.

Wiley-BT Series

0-471-93975-7 app 304pp due Oct 1993 app £24.95/\$39.95

Atmospheric Remote Sensing by Microwave Radiometry

MICHAEL A. JANSSEN

A rapidly growing area, remote sensing is crucial to the effort of modelling the earth's atmosphere and collecting such fundamental data as temperature, wind pressures, water vapor distribution, clouds and other active constituents. This information enables us to test existing models of the atmosphere's energy balance, depletion of the ozone layer, climatic trends and other essential environmental data.

Wiley Series in Remote Sensing

0-471-62891-3 592pp April 1993 £79.00/\$110.00

Mobile Communications Design Fundamentals

Second Edition

WILLIAM C.Y. LEE, PacTel Corporation, USA

The most recent addition to the author's acclaimed series on mobile and cellular communications, this book offers designers, researchers and students an up-to-date, invaluable guide to the theoretical framework of mobile radio communications and how such systems are designed. With an abundance of new material, this Second Edition covers leading-edge Personal Communications Service (PCS), microcell, and CDMA systems.

Wiley Series in Telecommunications

0-471-57446-5 394pp February 1993 £49.50/\$68.95

Wiley books are available through major booksellers. Alternatively, order direct from Wiley (payment to John Wiley & Sons Ltd). Credit card orders accepted by telephone - (0243) 829121. Prices quoted here apply to UK and Europe only.

JOHN WILEY & SONS LTD
BAFFINS LANE, CHICHESTER
SUSSEX, PO19 1UD, UK



Non-linear Dynamics of Electronic Systems, NDES'93

The 1993 Workshop was held in the quiet rural surroundings of Schloss Eckberg, an immaculately re-furbished neo-gothic chateau built on a high point overlooking the River Elbe and the City of Dresden. Over fifty participants, with representation from many countries (Cyprus, Denmark, England, Germany, Ireland, Italy, Japan, Poland, Romania, Russia, Scotland, Spain, Switzerland, USA) fully justified the title 'International'.

The main theme was the chaotic dynamics of simple non-linear structures. Papers were read on the synchronisation of chaotic signals, pseudorandom number generation, the performance of phase-locked loops, and the dynamics of neural networks. Invited contributors included Leon Chua (Berkeley), Josef Nossek (Munich), Martin Hasler (Lausanne), and Vagan Shakgulyan (Moscow). Posters and demonstrations (mostly illustrating the non-linear dynamics research projects of the Technical University of Dresden) were set up in an adjacent room, and included a photograph of 'the world's largest Chua circuit' - implemented with antique electronic components and two radio-frequency transmitting valves. The circuit itself could not be brought to Schloss Eckberg for safety reasons on account of the high voltages involved!



Participants in the Specialist International Workshop on Nonlinear Dynamics of Electronic Systems NDES '93 - at Schloss Eckberg

The Workshop proceeded smoothly, for which much credit must go to the hard work of Prof. Wolfgang Schwarz and his colleagues. The Social Programme included a journey on the River Elbe in a 1895 cable railway - the oldest in Germany - followed by a crossing of the exactly 100 year old 'Blue Wonder' bridge.

It was agreed by the participants that a similar annual workshop in Europe would fill a real demand and stimulate research and applications in this rapidly developing area. There will be a second workshop at the same time next year. The proposed dates and venue are 29-30th July 1994 in Krakow, Poland. Prof. Maciej Ogorzalek has kindly agreed to be the local organiser; the plan has the support of the IEEE Poland CAS Chapter. Looking two years ahead, Moscow is being considered as a possible venue for 1995.

Prof. Anthony C. Davies, King's College London, Strand, London, WC2R 2LS, England. Fax: +44 71 836 4781

University of Rome "La Sapienza"
AEI Associazione Elettrotecnica ed Elettronica Italiana

EMC '94 ROMA

International Symposium on Electromagnetic Compatibility

September 13-16, 1994

Rome, Italy

Submission of Papers on all EMC topics.
Receipt of Summaries: December 15, 1993

Workshops and Special Sessions on:
International Standards
International Activities Supported by CEE
Human Exposure to EM Fields

Technical Exhibition related to EMC

For further details please contact: EMC '94 ROMA Secretariat
Dip. Electrical Engineering, University of Rome "La Sapienza"
Via Eudossiana 18, I-00184 Rome, Italy
Tel: +39 6 4458 5809 Fax: +39 6 488 3235

Russia

By Professor Yuri Gulyaev

Satellite Communications - September 1994 Moscow, Russia

This international conference is being organised by the Russian Popov Society for Radio Engineering, Electronics and Communications. Also involved are the IEEE Russian Section, Region 8 and the Communications Society.

The conference will explore the theme "Satellite communications which unite nations". Representatives from industry, research institutes and universities from every part of the globe will gather together to discuss future trends in satellite communications; there will also be visits to research centres and other establishments. Scientists and engineers are invited to submit abstracts related to the conference theme. Amongst the topics are: Mini & Micro Satellites, Platforms & Launchers, Satellite Navigation, Remote Sensing & Earth Observation, Ecological Systems, Personal Communication, East-west Broadcasting and TV cooperation.

The conference will be organised in the form of plenary and section sessions, tutorials, panels and roundtable discussions.

Deadline for submission of abstracts - 15th March 1994

Contact Address: Dr. Henrich Lantsberg, Institute of Radio engineering and Electronics, Russian Academy of Sciences, Mokhovaya Str 11, 103907, Moscow Russia. Tel: +7095 203 4985. Fax: +7095 203 8414. E-mail: hlants@ire.uucp.free.msk.su

Sweden

By Dr. Anders Derneryd

ANNUAL MEETING

The Section annual meeting is planned for January in Göteborg. A separate notice will be mailed to all members, with the annual report. Hopefully, we shall celebrate our 1000th member at that meeting.

GIGAHERTZ '94

The second two-day symposium, GIGAHERTZ '94, on microwave techniques, high speed electronics and fibre optical systems will take place at Linköping in March 22nd-23rd. Contact: GIGAHERTZ '94, FOA, Bos 1165, 581 11 Linköping. Fax: 013 13 16 65.

ANTENN '94

The Nordic Antenna Symposium, ANTENN '94, will be held in Sundbyholms Slott outside Eskilstuna from 31st May to June 2nd. Antennas from kilometerwaves to millimeterwaves for communications and radar applications will be treated. Contact: ANTENN '94, FFV Aerotech AB, 732 81 Arboga. Fax: 0589 155 19.

E-MAIL

The use of electronic mail within IEEE is expanding rapidly as a means of connecting members and various IEEE entities. An e-mail guide may be obtained on request request to: e-mail-guide@ieee.org. E-mail can provide a more cost-effective and rapid means for communication than other techniques. The Sweden Section will introduce this on a trial basis; information can then be distributed faster to our members. Please send your e-mail address to the Section Chairman at the address below if you are interested in participating. The MTT/AP Chapter has already implemented such a system; information on coming technical seminars is distributed using e-mail. Contact Joakim Johansson at CTH - e-mail: joakim@ep.chalmers.se - if you want to receive a notice on coming microwave and antenna activities.

Section Chairman: Dr. Piotr Starski, Chalmers University of Technology, Division of Microwave Technology, S-412 96 Göteborg, Sweden. Tel: 031 772 1734. Fax: 031 164513.

E-mail: piotr@nt.chalmers.se

**Communications
Research
Group**

KING'S
College
LONDON
Founded 1829

Digital Radio Communications Systems February 1994

An intensive course enabling those familiar with basic analogue transmission techniques to acquire sufficient knowledge of advanced digital radio communication systems, particularly second generation and future mobile and personal systems.

to be given by

Professor Hamid Aghvami

Director of Research

Department of Electronic & Electrical Engineering

Continuing Education Unit, Kings College London,
Cornwall House Annexe, Waterloo Road, London, SE1 8TX
Tel: 071 872 3055/6 Fax: 071 872 3070

Region 8 Conference Record

Zurich, Switzerland

8-11 March 1994

International Zurich Seminar on Digital Communications

Contact: Bächtold, ETH, CH8092 Zurich

Fax: +41 1 261 1026

E-mail: ifhbae@czheth1c.bitnet

Glasgow, Scotland, UK

24-26 August '94

CCA '94: 3rd IEEE Conference on Control Applications

Contact: Prof. M.J.Grimble, Industrial Control Centre, University of
Strathclyde, Glasgow G1 1QE, Scotland, UK. Tel: +44 41 552 4400

Fax: +44 41 553 1232. E-mail: system@icu.strath.ac.uk

Ksiaz, Poland

30 May - 2 June 1994

MIKRON '94: 10th Microwave Conference

Professor E. Sedek, Telecommunication Research Institute,
00-991 Warszawa, UL Pologonowa 30, POLAND

Fax: 48-22 10 25 71

Torino, Italy

8-11 March 1994

Four-day Short Course on Computational Techniques for EM Applications

Secretariat: Fabrizia Stagni - COREP- Politecnico di Torino,
cc.soDuca degli Abruzzi 24, 10129 Torino, Italy. Tel: +39 11 564 5108
E-mail: "GRAGLIA@ITOPOLI.BITNET" "GRAGLIA@POLITO.IT

Rome, Italy

13-16 September 1994

EMC '94 ROMA Symposium on Electromagnetic Compatibility

Contact: EMC'94 Secretariat, Dip. Electrical Engineering
University of Rome "La Sapienza", I-00184 Rome, Italy
Tel: +39 6 4458 5809 Fax: +39 6 488 3235

Berlin, Germany

4-6 October 1994

EDCC-I First European Dependable Computing Conference

Contact: Dr. David Powell, LAAS-CNRS, u Avenue du Colonel Roche
31077 Toulouse, France. Tel: +33 6133 6287
Fax: 33 6133 6411. E-mail: David Powsell@ laas.fr

Brussels, Belgium

20-22 April 1994

ESANN '94

Artificial Neural Networks

ESANN '94 Secretariat, D factio Conference Services, 45 rue Maasui,
B-1210 Brussels, Belgium. Fax: +32 2 245 4694.
E-Mail: esann@dice.ucl.ac.be

UNIX and X windows Software

Ready Paks, high quality low cost software, ready-to-run straight from the
box. For Sun, DEC, IBM HP and SCO UNIX etc. Excellent value site-licences.
Quick and easy to install - and with support.

Includes: C and C++ compilers, GNU Emacs editor and utilities, bulletin board
system, comms tools, TeX, LaTeX, perl, X window system, PostScript
previewers plus many other applications/tools. **Free demo disk available.**

Call for latest catalogue, prices and order details

User Interface Technologies Ltd, 17-21 Sturton Street, Cambridge CB1 2QG, England
Tel: +44 223 302 041 Fax: +44 223 302 042