

IEEE Region 8 News

No 93 - February 1991

Europe, Middle East and Africa



Editor

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Good Morning from the Region 8 Director

Professor Kurt R. Richter



As the new Region 8 Director I would like to thank my predecessor Sven-Olof Öhrvik for all his work on behalf of the Regional members. He and his officers and appointed representatives on the Regional Committee, have dedicated a great deal of their time both to work within the Region, and to the Committees of the Board of Directors. During my year as Director-elect I gained some idea of the responsibilities and tasks of a Regional Director; I look forward to the challenge and my aim will be to bequeath to my successor a healthy and well-ordered Region. I have also

learned in this preliminary year something of the problems which arise in a Region such as ours, a Region that is bounded by North Cape in Norway, Cape of Good Hope in South Africa, Greenland and the Bering Sea between Siberia and the state of Alaska in the U.S.A.

In this huge area you will find something of everything: countries with several different populations; a variety of national cultures and philosophies; religions of every possible kind; and all operating under a variety of political regimes. The Institute serves all these local, national and international groups, in each one of which you will find engineers taking advantage of the services provided by the Institute for its members and for society in general. The majority of those engineers are organised into IEEE Sections, whose chairmen are members of the Region 8 Committee, a committee which is, therefore, representative of the greater part of the Regional membership. It is that coming together of nations, cultures, experience and differing educational systems which makes the IEEE an international (or transnational if you prefer it) organisation. For me it is a great fascination to work with all these

colleagues, and to search in harmony and cooperation, a solutions to current and potential problems. That harmony and cooperation is the Director's greatest asset; those same two characteristics answer also the often repeated question "Why is it that willing volunteers are so easily found in the IEEE?"

During my year as Director-elect I became acutely aware that there are still many countries in which the income of an electrical engineer is so low that the minimum IEEE membership fee may be more than 25% of a month's salary. This is the case in more countries than we imagine. Recent political changes in Europe have given rise to special situations in countries such as Czechoslovakia, Hungary, Romania and Poland, where many highly qualified electrical engineers are eager to join the IEEE. It must be one of our major interests to help them rejoin that scientific community from which they have for so long been excluded and in which they at one time played a prominent part. There are many benefits which devolve from membership of this IEEE international society, which offers excellent services to all its members, providing them with universally acclaimed technical

publications, technical and scientific meetings and conferences of the highest quality. Their cultural and technical participation in the international community will be welcomed by all and it will go a long way towards achieving the aim of widening their worldly horizon.

Another problem which could with advantage be tackled is that of intensifying the North-South dialogue within the Region, to the advantage in particular of many of the African states. For this purpose, AFRICON, the Region 8 Conference in Africa, would be an appropriate platform; some initiative is needed in order to continue the work of former Regional Directors.

No doubt there will be many other problems, both major and minor, which will arise in the immediate future; all will have to be overcome. I hope that during my period of service to the IEEE I shall be able to contribute, in a peaceful world, to their solution.

Regional Director: Prof. Dr. Kurt R. Richter, IGTE, TU-Graz, Kopernikusgasse 24, A-8010 Graz, Austria.
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Watch This Space
in the
May Region 8 News

DM

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Region 8 Conferences

By Dr. Jacob Baal-Schem (Regional Conference Co-ordinator)

The 1990 Conference activities of Region 8 slowed in comparison with previous years, due mainly to the cancellation of EUROCON '90; preparations for future Regional conferences continue. At the end of 1990 one of the members resigned from the Conference Committee; as Regional Director Professor Kurt Richter had to relinquish his post as its Secretary. It was a great pleasure to have the benefits of Kurt's knowledge and enthusiasm during his period of office with the Committee and we wish him every success as Regional Director.

The Region 8 Committee has elected to the Conference Committee, Professor Roberto Sorrentino, former Chairman of the Central & South Italy Section and professor at the University of Perugia. The Committee now consists of:

Dr. J. Baal-Schem - Chairman
(PO Box 1205, Holon 58112, Israel)

Dr. Rolf Remshardt - Member
(IBM Labs Dept 3185, Schoenaicher
Strasse 220, D-7031 Böblingen, Germany)

Prof. R. Sorrentino - Member and Secretary
(Dept of Electrical Eng., Università
degli Studi di Roma, Via Orazio Raimondo
00173, Rome Italy)

CompEuro '91 will be held in Bologna, Italy on 13-16th May. One hundred and twelve high quality papers have been accepted; in addition there are 46 invited papers and two Panel Discussions. If you have not yet made your arrangements, contact SERCOOP Congressi, Via Crociali 2, I-40138, Bologna, Italy - Tel +39 51 300811, Fax: +39 51 309477. Conference participants will be invited to a Gala Dinner and to a guided post-conference tour to Venice & Florence.

MELECON '91 will be held in Ljubljana, Yugoslavia on 22nd-24th May. Over 300 papers will be presented in several parallel sessions; the Conference will also feature the annual Region

8 Student Paper Contest. Additional information from: MELECON '91 Secretariat, Fakulteta za elektrotehniko, Ljubljana, Trzaska 25, Yugoslavia. Tel: +38 61 265161, Fax: +38 61 264990

In 1991 Region 8 will act as host to the **TAB Colloquium**. This will include a visit of the IEEE Technical Societies' Presidents and Distinguished Lecturers, to several of the Regional Sections, mainly in Eastern Europe. The activities of the group will include visits by Distinguished Lecturers to IEEE Sections and Chapters; and visits to chapter workshops, industry, research institutes and universities. The Regional Director has formed a co-ordinating group, under the chairmanship of the Conference Co-ordinator; it will include the Region 8 Secretary, Mr. B.W.Osborne, and the Regional Chapters Co-ordinator, Prof. A. Vander Vorst.

CompEuro '92 will be held The Hague, The Netherlands on 4-7th May 1992

EUROCON '92 - 18th-21st May - will be held in Zurich, Switzerland.

VINIS '92 - International IEEE Conference on Vehicle Navigation and Information Systems, will be in Oslo, Norway on 2nd-4th September 1992.

AFRICON '92 - is being planned by the South Africa Section for late 1992.

The Region is also involved in the organisation of **ICC '93**: - International Conference on Communications, 23rd-26th May 1993 in Geneva, Switzerland. ICC '93

In addition to the Regional Conferences, the Sections and Chapters of Region 8 are organising other Conferences and Workshops.

* **Israel Section**: 17th Convention of Electrical and Electronics Engineers in Israel. 6-7th March 1991 - Tel-Aviv.

* **Yugoslav MTT-S Chapter**: MM '91 International Meeting on Microwaves in Medicine - 8-11th April 1991 in Belgrade, Yugoslavia (MM '91, c/o IMTEL - Bulevar Lenjina 165b, PO Box 220, 11070 Belgrade, Yugoslavia)

* **Benelux Section**: ISSLS '91 - International Symposium on Subscriber Loops - 22nd-26th April 1991 - Amsterdam, The Netherlands. (Paul 't Hoen, PTT Netherlands, PO Box 39, 2260 AA Leidsehaven, The Netherlands)

* **Warsaw Student Branch**: KIF Conference of European Informatic Students - May 1991

* **UKRI Joint Communication and Signal Processing Chapter**: Planning an event on Hypermedia - 12-13th June 1991

* **Hungary Section**: International Symposium on Information Theory - 23rd-28th June 1991 - Budapest, Hungary. (Prof. Imre Csiszar, Mathematical Institute of H.A.S., H-1364, Budapest, PO Box 127 Hungary)

* **Turkey Signal Processing Chapter**: International Workshop on Higher Order Statistical Methods in Optics, Signal Processing and Geographics - Summer 1991 (A.E.Cetin, Bilkent University, Bilkent, TR-06533 Ankara, Turkey)

* **UKRI Signal Processing Chapter**: Workshop on Parallel Architecture for Seismic Data Processing - 2nd-3rd September 1991 - Glasgow, Scotland (Dr. W.Sandham, EE Dept., University of Strathclyde, 204 George St., Glasgow G1 1XW, Scotland)

* **Greece Section**: Athens Power Tech. Joint International Conference on Electric Power Systems - 30th August to 1st September 1993 - Athens, Greece (Prof. B.C.Papadakis, National Tech. Univ., 42 Patission St., 10682 Athens, Greece)

These are only some of the conferences being organised by the Sections and Chapters of Region 8; it illustrates the Institute's very considerable contribution to the technical and scientific life of the Region.

Turkey

By Dr. Levent Onural

The Sixth International Symposium on Computer and Information Sciences (ISCIS VI) will be held from 30th October to 2nd November 1991, in the vicinity of the beautiful Mediterranean resort of Antalya on the southwest Coast of Turkey, where it has been held Since October 1986. The aim is to bring together on an annual basis, International and European Computer Engineers and Scientists, and their Turkish counterparts.

These broad symposia cover many major aspects of research in computer engineering and science. Topics typically covered include: Architecture, Systems, Software Engineering, Programming Sys-

tems, Parallel and Distributed Systems, Artificial Intelligence and Expert Systems, Image Processing, Computer Graphics, Computational Linguistics, Computer Aided Learning and Instruction, Database Systems and Neural Networks.

These symposia have been successively organised by: Bilkent University, Bogazici University, Ege University, Middle East Technical University, Istanbul Technical University. The 1991 Symposium, the 6th in the series, will once again be organised by Bilkent University, in co-operation with the IEEE Turkey Section. The Antalya environs offer sunny beaches almost throughout the year, and sightseeing opportunities to many archaeological and historic sights.

At the third and fourth symposia, in 1988 and 1989, the attendance was over 200, with approximately two-thirds coming from Turkey and the other one third from a wide variety of countries including Canada, China, France, Germany, Greece, Italy, Camerouns, Israel, Saudi Arabia, U.K., USA., Yugoslavia, Soviet Union, Poland and Spain. We expect the attendance to be higher in 1991 since we intend to add invited talks and tutorials by well known computer scientists.

Those wishing to present papers should submit four copies of full papers, limited to 10 pages, or short papers limited to 4 pages by mail, before 1st May 1991 50: ISCIS VI, Bilkent University, Dept of Computer Engineering and Information Science, Bilkent, 06533 Ankara,

Turkey.

Preliminary proceedings will be made available at the Symposium for all participants. The Final Proceedings of the 2nd, 3rd and 4th Symposia were published, after further editing, by Nova Science Press, U.S.A. It is expected that the 5th Symposium Proceedings will also appear in the same manner. The proceedings of the ISCIS VI will be published by Elsevier Science Publishers.

Chapter Chairman: Dr. Levent Onural, Bilkent University, PK 75, 06572 Maltepe, Ankara, Turkey. Tel: +90 4 266 4040 (1263) Fax: +90 4 266 4127.

ESSCIRC '91



Seventeenth European Solid-State Circuits Conference

Milano/Italy
11/13 September 1991

The aim of the ESSCIRC series of conferences is to provide an annual European Forum for the presentation and discussion of recent advances in solid-state circuits.

The Programme Committee invites contributions for the 1991 conference at Milan in the following areas:

- Analog/Digital and Mixed Circuits
- Memory
- New Architectures and Methodology
- Testing Related Issues

The programme Committee particularly wishes to encourage contributions emphasizing aspects of system integration.

Papers

Papers will be selected on the basis of a summary of not more than four A4 pages and will be published in the Proceedings. Papers should be submitted before **April 10th 1991**. After selection of the papers, authors will be informed about the decision of the program Committee in **June 1991**. The working language for the conference is English which will be used for all presentations and printed material.

Analog Design Automation Workshop

Prior to the conference on Tuesday September the 10th will be held a workshop on analog design. The workshop is sponsored by the European Community under the Esprit label.

For further informations and a registration form please contact:

Conference Secretariat
Milano Ricerche
via Cicognara, 7 - 20129 MILANO ITALY
Tel. +(39) 2 744149 Fax +(39) 2 7385567

France

By M. Frédérique Vallée

AWARDS

The French Section is happy to announce the election of four Fellow Members for 1991:

M. Albert Benveniste for contributions to the theory and application of adaptive systems, identification, and statistical signal processing.

M. Georges R. Biennu for contributions to the theory and implementation of high resolution methods in passive sonars.

M. Jean-Paul Haton for leadership in and contributions to automatic speech recognition.

Mme. Gabrielle Saucier for contributions to logic synthesis in state assignment of finite state machines, to test generation for VLSI, and to the design of defect-tolerant architectures.

We also have pleasure in announcing that **M. Michel Pouloujadoff** has been chosen for the "Nikola Tesla Award": "For contributions to the theory of electrical machinery and its application to linear induction motors" **M. Pouloujadoff** has also been elected by the Sciences Academy of New York to the grade of Fellow Member.

CONFERENCES

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

- JICABLE '91. Third international conference on polymer insulated power cables (Paris, Versailles, 4-8th March 1991). A forum for the exchange of research information on polymer insulated power cables

and on industrial development for all operating levels, ranging from the lowest to the highest voltages - 400kV and more.

Twenty one sessions, 100 papers, 10 technical visits and 1 exhibition (JICABLE 91, SEE, 48 rue de la Procession 75015 Paris France. Tel: (33) 1 45 67 07 70. Fax: (33) 1 40 65 92 29)

- SPS '91. Power from Space. Second International Symposium (Paris, 9-12th April 1991). The aim of SPS 91 is to review the state of the art of solar power stations and to project the future prospects for this concept.

Seventeen sessions, 85 papers, 4 technical visits. (SPS 91, SEE, 48 rue de la Procession 75015 Paris, France. Tel: (33) 1 45 67 07 70. Fax: (33) 1 40 65 92 29.

- ICDAR '91. First International Conference on Document Analysis and Recognition (Saint-Malo, 30th September-2nd October 1991) The conference intends to provide an international forum for the development and the dissemination of new ideas, basis research, and issues concerning practical applications of both on-line and off-line processing in the domains of automatic analysis and recognition of documents. (V. Ségaut, ICDAR 91, AFCET, 156 bld Péreire 75017 Paris France. Tel: (33) 1 47 66 24 19. Fax: (33) 1 42 67 93 12)

- CMCEN 91. Communications for Monitoring and Control of Electrical Energy Networks (Paris, 8th October 1991). The Conference will cover the principal devel-

opments concerning communications for the monitoring and control of electrical energy networks, with an emphasis on three main points: new requirements, proposed and existing solutions, standard requirements. (CMEN 91, SEE, 48 rue de la Procession, 75015 Paris, France. Tel: (33) 1 45 67 07 70. Fax: (33) 1 42 60 99 75)

We have pleasure in announcing that the following conference is in preparation: "Annual IEEE Robotics and Automation Conference in Europe" - Acropolis, May 1992

OTHER FRENCH NEWS

Dans le cadre des accords passés entre l'A.R.E. Et la Section française de l'I.E.E.E., Nous annonçons les conférences suivantes:

*Dix années d'expérience dans l'enregistrement optique (by M. U.P. Lacoste - 13 février 1991).

*Evolution des réseaux intégrés de transmissions automatiques (par le Général Deygout - 20 Mars 1991)

*Evolution des communications tactiques en aéronautique (par M. Michel Scheller - 17 avril 1991)

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 Léna.

Pour tout renseignement ou confirmation, s'adresser à Mme Birckel, 193 rue du Fau-gourg, Saint-Martin, 75010 Paris, tél : (1) 42 08 40 77.

Germany

By Dr. Ing. F. Coers

The members of the Executive Committee of the German Section were elected by ballot; the votes being counted in Frankfurt on 24th August 1990 and confirmed at the Section ExCom meeting on 14th January 1991 - 26% of the members voted. The results were as follows:

- Chairman: Professor Dr. Ing. Adolf J. Schwab, Karlsruhe - F 6296321
- Vice-chairman: Robert L. Baber, Bad Homburg - SM 0900332. In place of Dr.

techn. Johannes Berghammer, Munich - M 1673260, who died on 24th September 1990

- Treasurer: Professor Dr. Ing. Werner Wiesbeck, Karlsruhe - SM 8126997
- Secretary: Dr. Ing. Friedrich Coers - M 5966270, Frankfurt, will remain Secretary of the Section until his retirement at the end of 1991.

According to No 5 of the Section Bylaws the other Officers (Membership Development

Co-ordinator, Student Activities Co-ordinator, Conference Officer, Publications Officer, Awards and Nominations Officer and two Assessors) were designated by the elected members of the Executive Committee. Additional members of the Committee will be the Chapter Chairmen and the Past Chairman of the Section.

Section Chairman: Prof. Dr. Ing. Adolf J. Schwab, Kaiserstrasse 12, 7500 Karlsruhe 1, Germany. Tel: +49 721 608 25 20. Fax: +49 721 69 52 24.

Malta

By Dr. Anton Cutajar

At present there is no IEEE Section in Malta, since the number of members is still less than twenty. I am campaigning to increase the number of members, as I believe strongly that a Section in Malta would be of benefit both to the local Engineering profession and the IEEE. Due to its strategic position in the centre of the Mediterranean, Malta has always served as a bridge between Europe and Africa, and even within the IEEE this may bring results.

As a result of the enactment by the local Parliament of the "Engineering Profession" Act, it is now mandatory in Malta for all

engineers to be in possession of a state conferred warrant, in order to practise their profession; the first warrants are due to be awarded shortly.

In Malta (with a population of just under 350,000) at least half of the 500 engineering graduates are electrical engineers. Most have graduated from the local University, which although being one of the oldest in Europe, has offered BSc(Eng) courses only during the last 20 years. No post-graduate courses in Engineering are available locally and the few Masters and Doctorate degrees which do exist

were obtained abroad. Many of these are members of the local Chamber of Professional Engineers, the majority of whom are eligible for Group 1 registration within F.E.A.N.I. Scheme for the title of Eur. Ing. Many of the local engineers are members of British Engineering Institutions. I hope to be able to report progress in the not too distant future.

Dr. Anton Cutajar: Engineering Services Ltd., 8 Oratory Street, Paola, Malta. Tel: +356 492715 440949

Romania

By Dr. Andrei P. Silard

Our newly created Section held its first election on 8th December 1990, during the General Meeting, which at the same time adopted the Section Bylaws. The membership then was 73. The main goals standing before the Executive Committee in 1991 are the following:

1. To ensure a gradual positive gradient in membership.
2. Creating of professional and Student chapters
3. Expansion of the IEEE library
4. Establishment and development of links with other Sections

On behalf of our members, the Executive Committee expresses its thanks to Acad. Prof. Mihai Draganescu, President of the Romanian Academy, who in 1977 opened the communication channels between Romania and the IEEE, and who competently ensured the

Chairmanship of the Romania Section-in-Development (1986-90) under extremely tough political conditions.

The first conference to be sponsored by the Section is the 8th International Conference on Control Systems and Computer Science - CSCS 8) to be held at the Bucharest Polytechnic Institute from 22nd-25th May 1991. Contact: Prof. I. Dumitrache, Chairman of the Organising Committee, Department of Control & Computers, Bucharest Polytechnic Institute, 77206 Romania, Telex: 10297 or 11907 C-69. The following are the Committee members:

- Chairman: Andrei P. Silard, Aleea Alexandru 19, Bucharest, 71273 Romania. Tel: W-(400) 3133331 - (400) 317800/182. H-(400) 331184. Tx: 10252 ipolbr.
- Vice-chairman: Marcel D. Profirescu, 21 Bvd. Salajan, Block Y9 AP 15 Sect 3, PO Box 57-112, Bucharest, 74612 Romania. Tel: W-(400)317800 Ex.334.

- Secretary/Newsletter Editor: Florian M.G. Tomescu, Str. Pascani nr.7, Apt. 43, Bucharest, 77496 Romania. Tel: W-314010 Ex.582.

- Treasurer: Svetlana Rau, P-ta Kogalniceanu 18, Ap. 24, Sector 5, Bucharest 40629, Romania

- Professional & Educational: V-Emil I. Neagoe, PO Box 16-37, 77500 Bucharest 16, Romania.

- Membership Development & Students: Cezar R. Flueraşu, Str. Episcop Ilarion 11, Bucharest, 73292, Romania.

- Awards: Acad. Prof. Mihai Draganescu, President of the Romanian Academy, Calea Victoriei 125, Bucharest, Romania. Tel: W-(400) 507193.

Section Chairman: Andrei P. Silard, Aleea Alexandru 19, Bucharest, 71273 Romania. Tel: W-(400) 3133331. Tlx 10252 ipolbr.



Region 8 Conference Record

<p>Amsterdam, The Netherlands 03.07 July 1992</p> <p>IBC '92 INTERNATIONAL BROADCASTING CONVENTION</p> <p>IBC Secretariat, IEE Savoy Place, London WC2R 0BL, England</p>	<p>Milano, Italy 11.13 Sept 1991</p> <p>ESSCIRC '91 EUROPEAN SOLID STATE CIRCUITS CONFERENCE</p> <p>Milano Ricerche, via Cicognara 7, I-20129 Milano, Italy</p>	<p>Baden - Baden, Germany 4-6 March 1991</p> <p>MIKROELEKTRONIK 1991</p> <p>Secretariat IEEE, VDE-Haus, Stresemannallee 15, D-6000 Frankfurt 70, Germany</p>
<p>Paderborn, Germany 9-12 June 1992</p> <p>ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS IN INDUSTRY & ENGINEERING</p> <p>Dr. Fezi Belli, Univ. Paderborn, Postfach 1621 Paderborn, Germany.</p>	<p>Portland, Oregon, USA. 27-31 Oct 1991</p> <p>PICMET '91 - MANAGEMENT OF ENGINEERING & TECHNOLOGY</p> <p>Portland State University, PO Box 751, Portland, OR 97207-0751 U.S.A.</p>	<p>Lausanne, Switzerland 19 Aug-Sept 6 1991</p> <p>Course: CMOS & BiCMOS VLSI Design '91</p> <p>Valdo Valencic, EPFL-LEG, EL-Ecublens, 1015 Switzerland. Phone +41 21 693 3972.</p>
<p>Reisenburg, Germany 14-17 July 1991</p> <p>Workshop: TECHNOLOGY OF HETEROSTRUCTURE DEVICES</p> <p>Prof. Dr.-Ing. E.Kohn, Universität Ulm, Oberer Eselsberg, PO Box 4066, D-7900 Ulm.</p>	<p>Stuttgart, Germany 12-13 Sept 1991</p> <p>Workshop: CAD TECHNIQUES. micro, mm WAVE TRANSMISSION-LINE JUNCTIONS</p> <p>Prof. Dr.-Ing. F. Arndt, Universität Bremen, PO Box 330440, D-2800 Bremen</p>	<p>Antalya, Turkey 30 Oct-02 Nov 1991</p> <p>SIXTH INT. SYMPOSIUM ON COMPUTER & INFORMATION SCIENCES</p> <p>ISCIS VI, Bilkent University, Dept Computer Engineering, Bilkent, 06533 Ankara, TURKEY</p>
<p>Nicosia, Cyprus 1-3 July 1991</p> <p>1st CYPRUS INT. CONF. ON COMPUTERS AND ENGINEERING SYSTEMS</p> <p>CIC-CAES '91, Cyprus Institute of Neurology & Genetics, PO Box 3462, Nicosia, Cyprus</p>	<p>Munich, Germany 16-19 Mar 1992</p> <p>Workshop: Advanced Communications FOR HIGH SPEED NETWORKS</p> <p>Dr. Y.C. Ip, Siemens AG, Dept. ZFE IS KOM 4 Otto-Hahn-Ring 6, D-8000 Munich 83.</p>	<p>Lausanne, Switzerland 25-28 June 1991</p> <p>Course: CURRENT TOPICS IN ANALOG IC DESIGN</p> <p>Dr. V. Valencic, EPFL-LEG, EL-Ecublens, 1015 Lausanne, Switzerland.</p>
<p>Cirencester, England 16.18 Sept 1991</p> <p>SOFTWARE ENGINEERING FOR REAL TIME SYSTEMS</p> <p>Miss Louise Bousfield, IEE Conference Services Savoy Place, London WC2R 0BL, England</p>	<p>Munich, Germany 10.12 Apr 1991</p> <p>ETC '91 EUROPEAN TEST CONFERENCE</p> <p>Peter Stilke, VDE-Zentralstelle Tagungen und Seminare, Stresemann. 15, D-6000 Frankfurt 70</p>	<p>London, England 9.12 Dec 1991</p> <p>COMPUTATION IN ELECTROMAGNETICS</p> <p>Miss Louise Bousfield, IEE Conference Services Savoy Place, London WC2R 0BL, England</p>
<p>Florence, Italy 4.6 Sept 1991</p> <p>INTERNATIONAL CONFERENCE: DIGITAL SIGNAL PROCESSING</p> <p>Prof. V. Cappellini, Dipartimento di Ingegneria Elettronica, via di S.Marta, 3, 50139 Firenze, Italy</p>	<p>Bologna, Italy 13.17 May 1991</p> <p>CompEuro '91 - ADVANCED COMPUTER TECHNOLOGY: SYSTEMS, APPLICATIONS</p> <p>Prof. Vito Monaco, Dipartimento di Elettronica, via Risorgimento 2, 40136 Bologna, Italy</p>	<p>Vienna, Austria 16.18 Sept 1991</p> <p>IFAC - ROBOT CONTROL (SYROCO '91)</p> <p>IFAC-Syr/91, ÖPWZ, Rockhgassee 6, A-1014 Wien, Austria</p>
<p>Amsterdam, The Netherlands 25.28 Feb 1991</p> <p>EDAC - EUROPEAN DESIGN AUTOMATION CONFERENCE</p> <p>EDAC-91 Secretariat, CEP Consultants Ltd., 26 Albany Street, Edinburgh EH1 3QH, Scotland</p>	<p>Lausanne, Switzerland 1-5 July 1991</p> <p>Course: SIGMA-DELTA DATA CONVERTERS</p> <p>Dr. V.Valencic, EPFL-LEG, EL-Ecublens, 1015 Lausanne, Switzerland. Fax +41.21.693.3640</p>	<p>The Hague, Netherlands 04.07 May 1992</p> <p>CompEuro '92 - ADVANCED COMPUTER TECHNOLOGY: SYSTEMS, APPLICATIONS</p> <p>Prof. P.M.Dewilde, Delft Inst. of Tech., E.E.Dept., Mekelweg 4, NL-2620 CD Delft, Netherlands</p>

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Two intensive courses organized by

SWISS FEDERAL INSTITUTE OF TECHNOLOGY (EPFL), LAUSANNE, SWITZERLAND

Current Topics in Analog IC Design

June 25-28, 1991

"Analog CMOS Device Modeling, Continuous-Time CMOS Filters"

YANNIS TSIVIDIS - Nat. Techn. University of Athens, Greece

"Current Mode Circuits - BJT, BiCMOS Analog Circuit Design"

BARRIE GILBERT - ANALOG DEVICES, Beaverton, OR, U.S.A.

"Micropower Analog IC Design"

VLADO VALENCIC & ERIC VITTOZ - EPFL, Lausanne, Switzerland

"CDS Techniques in SC Circuits"

GABOR TEMES - Oregon State University, Corvallis, OR, U.S.A.

"Dynamic Element Matching, Analog Neural Networks"

ERIC VITTOZ - CSEM, Neuchâtel, Switzerland

"CMOS Power Amplifiers, BiCMOS Analog Circuit Design"

RINALDO CASTELLO - University of Pavia, Italy

"Integrated Sensor Interfaces, CAD for Analog and Mixed IC's"

RICHARD CARLEY - Carnegie Mellon, Pittsburgh, PA, U.S.A.

Course fee : 2'200.- Swiss Francs, Deadline for registration : May 31, 1991

Sigma-Delta Data Converters

July 1-5, 1991

"Basic Concepts of Oversampling Quantization and Σ - Δ Modulation"

JAMES CANDY - BELL LABS, NJ, U.S.A.

"Architectures for Σ - Δ Data Converters"

GABOR TEMES - Oregon State University, Corvallis, OR, U.S.A.

"Quantization Noise in Σ - Δ Design"

ROBERT GRAY - Stanford University, CA, U.S.A.

"Practical Aspects of Σ - Δ Data Converters"

RUDOLF KOCH - SIEMENS, München, Germany

"The Design of Cascade Σ - Δ Converters"

MIKE REBESCHINI - MOTOROLA, Schaumburg, IL, U.S.A.

"Architectures for Very High-Resolution Converters"

BOB ADAMS - ANALOG DEVICES, Wilmington, MA, U.S.A.

"Higher Order Single Stage Σ - Δ Converters, Technology Requirements"

CHARLES SODINI - MIT, Cambridge, MA, U.S.A.

"Analog and Digital Circuit Design for High-Accuracy Converters"

HANNU TENHUNEN - Tampere University of Technology, Finland

"Modulators with Multibit Internal Converters"

"CAD for Oversampling Converters"

RICHARD CARLEY - Carnegie Mellon, Pittsburgh, PA, U.S.A.

Course fee: 2'500.- Swiss Francs, Deadline for registration : May 31, 1991

Course coordinator : Gabor C.Temes

Course location : EPFL-Lausanne, Switzerland

For further information, please contact:

Dr.V.Valencic, EPFL-LEG, EL-Ecublens, 1015 Lausanne, Switzerland

Tel: +41-21-693.39.72 (or 75), Fax: +41-21-693.36.40

EPFL is member of the ESPRIT VLSI Design Action of the European Communities.



Intensive Summer Course

on

CMOS & BiCMOS VLSI Design '91

ANALOG & DIGITAL

**Lausanne, Switzerland
August 19 - September 6, 1991**

organized by

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Course directors: MICHEL DECLERCQ, DANIEL MLYNEK, ERIC VITTOZ

Course manager and mailing address:

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phone: + 41-21-693'39'72(or 75) fax: + 41-21-693'36'40

EPFL is member of the ESPRIT VLSI Design Action of the European Communities.

Questions you have asked

Just because my name appears on the front of Region 8 News, and for no better reason, I receive from members a variety of questions on almost every conceivable subject; they are welcome, and an answer can usually be found, but not immediately. In order to give you the satisfaction of solving your problems personally, I asked Barbara Ettinger (Manager of the Transnational office, in New York) if she could provide names and addresses of people you should contact for help and information. The initial problem is frequently that the titles of departments and individuals in the IEEE administration do not explain what a department or individual actually does; as a consequence it is difficult to find the right person to answer a question. Here are the most "popular" questions, and where to go for information. *G.H. Byford, Editor.*

"I Have Had No Reply to my Letter"

If, after a reasonable time has elapsed, there has been no reply to your correspondence, please contact:

Ms Barbara Ettinger
Manager, IEEE Transnational Office
345 East 47th Street
New York, NY 10017 U.S.A.

Be sure to include a copy and/or complete description of the unanswered correspondence.

Telephone: (212) 705-7887
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It helps if you quote your Membership No. The telephone is frequently the quickest way of solving your problem. If you wish to get your thoughts in order first, write them down and use the fax; the hard-copy also helps the New York administration. If there is no alternative then use the postal system; in some countries a letter and its reply take a considerable time. It is most helpful to all concerned if you know the name of the person to whom you should speak; if you do not know his name then telephone Barbara Ettinger first - she is the fountain of all truth in matters IEEE - it was she who so kindly provided all this information.

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Italy

Details will be found In November Region 8 News, p.15

Professional Communication - IPCC '90

By Mr. B.R.Harrington (Chairman, PC Chapter UKRI Section)

The work of the Professional Communication Society promotes techniques and programmes for the effective communication, in a professional manner, of all types of engineering and technical information. Although one of the smallest of the IEEE Societies, it is successful in promoting close co-operation and the exchange of technical information among its members, other members of IEEE, and members of the engineering profession in general.

To secure an international footing, the PC Society held its Annual Conference in the UK - September 1990, at Guildford, Surrey. Planning, started in 1985, was rewarded by the attendance of more than 80 delegates from the US, Europe and Asia. Regrettably, events in the East prevented the attendance of a number of IEEE members from that area. A large number of the World's leading Industrial and Educational organisations were represented: from Boeing to the United Nations, and from IBM and NASA to Eindhoven University.

The three-day conference followed the theme of "Communications Across the Sea", which was most appropriate in view of the many Nationalities present. A progressive programme of tutorials and formal presentation of papers, discussed and analysed different practices for the exchange of Engineering and Technical work across international boundaries. The communication of Engineering and Technical information to the general public was an important feature of some sessions.

We were pleased to welcome Roland Saam, Chairman - UKRI Section, as our guest at the Conference dinner and the Keynote speech to celebrate this occasion was given by Professor R.C.G.Williams, founder member of the Section.

In 1991 IPCC returns to Orlando, Florida, when Dr., Heinrich Lantsberg, Chairman of the A.S.Popov Society's Group on Professional Communication in the USSR, is expected to be the Keynote Speaker. Dr. Lantsberg is head of the Scientific Information Department of the Institute of Radio Engineers and Electronics, USSR Academy of Sciences, and a member of the Central Board of the A.S.Popov Society. In 1992 IPCC moves to Santa Fe, New Mexico. It is expected that Region 8 IEEE members will continue to support this important annual conference and so ensure its continuing International success.

Sweden

By Dr. Anders Derneryd

CHAPTERS

Two New Chapters have been established within the Swedish Section. There are now four active Chapters; the Chairmen are:

- * EMC: Peter Landgren at AB Bofors. Tel: 0586 81428
- * MTT/AP: Thomas Lewin at Ericsson Radar Elect. Tel: 031 67 1091
- * PE: Roland Eriksson at KTH. Tel: 08 790 7988
- * VT/COM: Henry Scheffe at Telefon AB L M Ericsson. Tel: 08 719 2159

TECHNICAL ACTIVITIES

The Sweden Section continues its technical activities through its Society Chapters. The technical programme planned for spring 1991:

- * EMC: System Testing and EMC-Standards (Stockholm, April)
Contact Peter Landgren, 0586 81 428
- * PE: Meeting in Västerås (March)
Contact Jan Samuelsson, 021 324 944
- * MTT/AP: MMIC design through CAD simulations (Linköping).
- * Interaction between Microwaves and Optics (Göteborg)
- * Biological & Medical Aspects of Microwaves (Göteborg)
Contact: Stefan Johansson, 031 72 1781

MEMBERSHIP DEVELOPMENT

The Sweden Section now has 804 members (F=15, SM=64, M=544, A=77, S=104) in October last year; an increase of 10% over the previous year. Associate members who qualify for the grade of Member or Senior Member in the IEEE may contact the Section Chairman for an application form.

Section Chairman: Dr. Piotr Starski, Chalmers University of Technology, Division of Network Theory, S-412 96 Göteborg, Sweden. Tel: 031 721734. E-mail: Piotr@nt.chalmers.se (UUCP)

United Kingdom & Republic of Ireland

Student Activities: By Dr. James Gilbert

The major student related IEEE event to have taken place in the last few months was the UKRI heat of the Region 8 student paper contest. This was held in the Department of Electronic & Electrical Engineering at Leeds University on 28th November. Thanks to generous sponsorship by Filtronics Ltd. the prizes on offer were £150. £75 and £50 in addition to the recommendation that the papers go forward to the Region 8 finals.

The presentations made by the four finalists in this heat were of a very high standard and would not have been out of place at an international conference. The judges eventually decided that the two best papers could not be separated and so a joint first prize was awarded to Mr. C. Popadopoulos of the Department of Electrical Engineering at University College London and Mr. P Raby of the Department of Electronic and Electrical Engineering at Leeds University. The third prize was presented to Mr. T. O'Connell of the Department of Electrical Engineering of Cork.



Back row, L to R: T.O'Connell, J.Ahmed, C.Popadopoulos and P.Raby.
Front row, L to R: Professor P.M.Taylor, University of Hull,
Prof. J.D. Rhodes, Managing Director of Filtronics Components Ltd.
and Dr. J.M.Gilbert, University of Hull.

Assistant Student Advisor: Dr. James Gilbert, University of Hull, Dept of Electronic Engineering, Hull HU6 7RX, England.

Professor Andras Ambrozy

By Dr. G. Bán - Chairman: Hungary Section

Professor Andras Ambrozy, Head of the Department of Electronics Technology at the University of Budapest, Hungary, an internationally known expert on electronic noise, died during a storm on Lake Balaton on 1st July 1990.

Throughout his professional life he was connected with the Technical University of Budapest; it was here that he was awarded his degree in Electrical Engineering in 1953 and his Ph.D "summa cum laude" in 1962. In 1978 he earned the title of Doctor of Technical Sciences from the Hungarian Academy of

Sciences. He had been teaching at the T.U. Budapest since 1953, first in the Department of Radio Communication, and later in the Department of Electron Devices. He held the post of Head of the Department of Electronics Technology from 1970 and in 1979 was appointed full professor of the University.

He directed the educational and research activities of his Department for 10 years. He played a very important part in founding the Microelectronics and Technology Branch of the Faculty of Electrical Engineering at the T.U. Budapest, and as a member of the University Council he devoted his energies to the development of the entire Hungarian higher educational system.

He started scientific research as a student, and devoted all his life to it. He made several

contributions to the construction of theoretically novel measuring systems. He was world famous as a scientist in the field of noise problems in electronic equipment. His book "Electronic Noise" was published in English (McGraw Hill) and also in Japanese (Keigaku). He was a member of the organising committee of the "Noise in Physical Systems" international committee.

Professor Ambrózy was one of the first IEEE members in Hungary and a Senior Member. He was proposed for the Fellow Grade in 1990.

He enjoyed music and sport; and died of a heart attack whilst engaged in his favourite sport of sailing.

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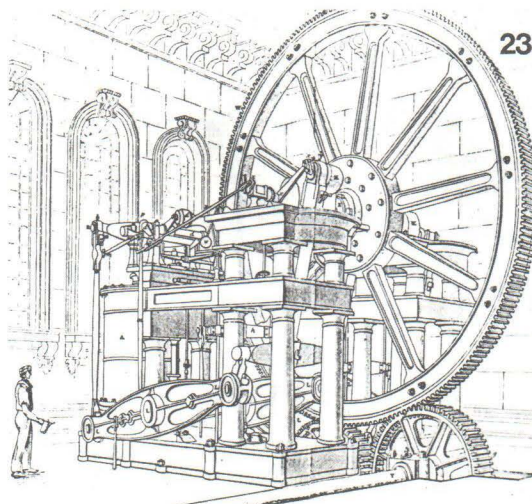
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Charles Babbage

Was a mathematician from Cambridge University; he invented huge mechanical calculating "engines" having much in common with modern electronic computers. His engines possessed a stored programme, and in association with a lady mathematician - the "Princess of Parallelograms", they were controlled by a punched card system similar to that used in making the patterns for weaving cloth.

Unfortunately he did not complete any of his engines, always having "a better idea" before the previous one had been completed. It is widely believed that the machine-tool technology of the past century



(1791-1991)

would not have been adequate for their construction.

The Science Museum in London has undertaken to build, in public, a full size version of his "analytical engine" to the original drawings, in order to establish whether or not their construction would have been possible during the last century. It will have 4,000 parts, weigh 3 tons and be 3m x 2m x 0.5m.

One wonders whether this early "lap-top" used a contemporary power pack.

In the absence of nature's intervention, Professor Babbage would in 1991 have been celebrating his 200th birthday. The Editor

IECON '91 Call for Papers



17th International Conference on Industrial Electronics, Control & Instrumentation

Kobe, Japan
28 October – 1 November 1991

Workshops and Special Sessions will include:
Robotics, Motion Control, Vision Systems,
AI Applications & CAD

Motion Control
Medical Electronics and/or Devices
Signal Processing
Sensors & Transducers
Distributed and/or Parallel Computer control
Computer Communication Networks
Steel Production Systems
Neural Networks/Computer Applications
AI Applications – Expert Systems
Control Theory & Applications
Software Design Tools – Human Interface

Submit a summary of 1,000 words and an abstract of 100 words (5 copies) before 15 March to:
Prof. Takamasa Hori, Soc. of Instrument & Control Engineers of Japan, (SICE) 1-35-28-303 Hongo, Tokyo, Japan. Tel: +81 3 814 4121 Fax: +81 3 814 4699

Sponsored by IES of the IEEE and SICE Japan

EUROGRAPHICS'91

Conference on Computer Graphics with Industrial Exhibition
September 2 - 6, 1991, Vienna, Austria



The 12th annual conference of the European Association for Computer Graphics will be the most important Computer Graphics event in Europe this year.

Conference Themes

All aspects of Computer Graphics, including applications: image synthesis, animation, scientific visualization, human computer interaction, modelling, graphics hardware, graphics standards, image processing, etc.

Programme Overview

Eurographics'91 will consist of the following events:

- * 12 ONE-DAY TUTORIALS
- * 4 INVITED LECTURES
- * 42 SELECTED TECHNICAL PAPERS
- * STATE OF THE ART REPORTS
- * GRAPHICS R&D IN EC PROGRAMMES
- * POSTER PRESENTATIONS (Deadline June 1, 1991)
- * SLIDE, FILM & VIDEO COMPETITION (Deadline June 1, 1991)
- * MAJOR INDUSTRIAL COMPUTER GRAPHICS EXHIBITION

Eurographics'91 will be held in the Hofburg, the former palace of the Austro-Hungarian emperor, right in the center of Vienna. If you are interested, please contact the Conference Secretariat for more information:

Prof. W. Purgathofer, EUROGRAPHICS'91
Interconvention, Austria Center Vienna
A-1450 Vienna, Austria
Tel.: +43 (1) 2369 2640
Fax: +43 (1) 2369 648
email: eg91@eigvs4.una.at

Don't miss this event!



EMC Zurich '91

9th INTERNATIONAL ZURICH SYMPOSIUM
& TECHNICAL EXHIBITION
ON ELECTROMAGNETIC COMPATIBILITY

12th to 14th March 1991, Zurich, Switzerland

organized by the

**Institute of Communication Technology,
Swiss Federal Institute of Technology, Zurich**

133 technical papers in 18 sessions, workshops (EMI field measurements standards, European EMC standards for 1992, power quality issues, EMC management), tutorial lectures, open meetings, technical exhibition, technical excursions, social program including ladies' excursions to attractive Swiss resorts. The conference language is English.

Session Headings

- | | |
|--------------------------------|-----------------------------|
| ● Noise and Reception | ● Biological Effects |
| ● Transmission Lines | ● Lightning and Nuclear EMP |
| ● Conducted vs. Rad. Tests | ● Product ESD and Immunity |
| ● Layered Media | ● Numerical Modeling in EMC |
| ● Line Transients and Coupling | ● Power and Dataline Trans. |
| ● Screening | ● Absorbers and Filters |
| ● Comp.-Aided Spectrum Eng. | ● Theory of EMC |
| ● Lightning | ● Power Systems |
| ● Emission Testing | ● System EMC |

Registration

The conference program with registration and hotel reservation forms may be obtained from the Symposium Chairman:

Dr. G. Meyer, ETH Zentrum-IKT, CH-8092 Zurich, Switzerland
phone (.411) 256-2793, fax (.411) 262-0943, tlx 817-379 ethzh.ch.

ETC91 Munich

European Test Conference

Conference programme: April 10–12, 1991

56 technical papers on electronic product testing, from ICs through to systems. Topics include:

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

Tutorial programme: April 8–9, 1991

6 one-day tutorials will be presented on:

- ATE applications of artificial intelligence
- Designing testable logic networks
- Mixed signal testing
- Defect and fault modelling
- Boundary-scan
- ATE: concepts and architectures

For further information and a registration form contact:

Peter Stilke, VDE-Zentralstelle Tagungen und Seminare,
Stresemannallee 15, D-6000 Frankfurt 70, WEST GERMANY
(Tel: +49 69 6308 203; Fax: +49 69 6308 273)