

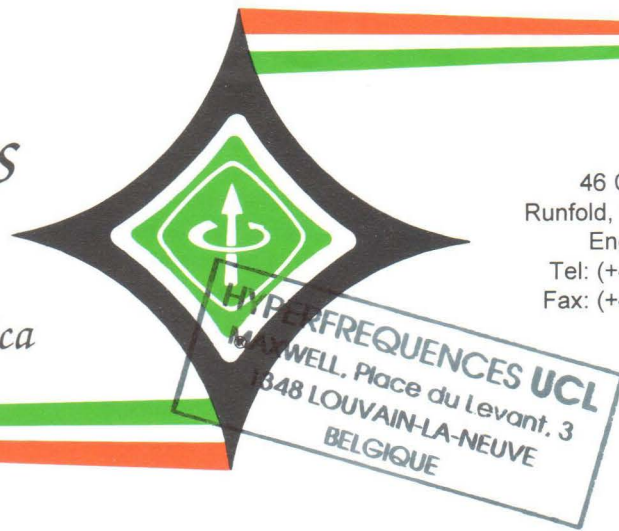
IEEE

Region 8 News

No 113 - February 1996
Europe, Middle-east and Africa

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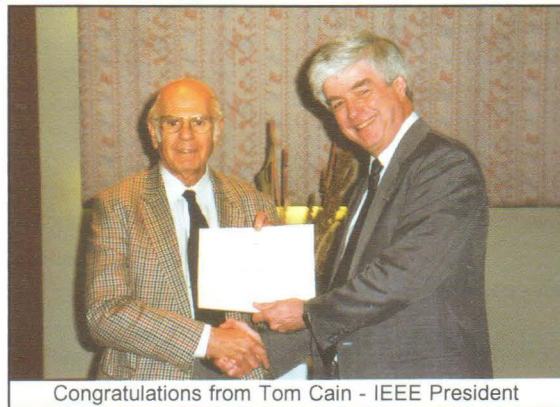
Robert C. Winton

"Bob" Winton started his IEEE career as Assistant Secretary to the then newly formed UKRI Section (1963) and in recognition of his obvious secretarial abilities was in the same year promoted to Secretary, a post which he continued to fill until 1972. Also in 1963 he joined the nascent Region 8 Committee, to which he has been accredited in one way or another ever since.

He took a very active part in the Eurocon series of conferences, serving as Chairman or Member of Organising and Publicity committees until 1982. 1973 - 1974 saw him take up the post of Secretary/Treasurer of Region 8; this was followed by Chairman of UKRI Section from 1976 to 1977.

He returned to Region 8 as Secretary/Treasurer in 1978 and in 1984 was awarded the IEEE Centennial Medal. From 1981 - 1987 he was once more in the Secretary's seat at Region 8 committee meetings. As a change from the European

scene he tried a temporary emigration to the New World, in Boston as the "Captain of Team 1" at the Chairman's Congress. This must not have been too much to his liking for in 1986 he returned to Europe for the presentation of his Haraden Pratt Award.



Congratulations from Tom Cain - IEEE President

There followed a spell (1987-1996) as Region 8 Long Range Planning Co-ordinator, during which he received the Larry K. Wilson Award.

It would be difficult to find another to match this extensive history of service to the Region and to the Institute. The Region 8 Committee has very wisely made Rob Winton an Honorary member of the committee, thereby ensuring that over thirty years of experience would still be at the committee's disposal. And so Bob, if you were to imagine even for one moment that you have heard the last of all those questions, you would be wrong. *Au Revoir Robert C. Winton - the goodbyes will have to wait.*

From the Regional Director

A Happy New Year!

For more than a year I have had the privilege of serving the IEEE members in the Region 8 as Regional Director. It is now time to review the activities of the past year and to plan for the coming year, but first of all I wish to congratulate Maurice Papo on his election as Director-elect for 1996, in which capacity he will serve on the Region 8 Committee.

Member Services

The IEEE member services is still one of my major concerns. The Membership renewal process is a peak load for the staff in the Member Services Department. In order to cope with the special problems of Region 8, Marianne Schmidt has been allocated to our region. Her E-mail address is m.schmidt@ieee.org. Unfortunately, the mailings of the 1996 Membership Renewal information were staggered from the third week in October 1995 to the third week in December 1995, we hope that by now all members in Region 8 will have received their Renewal information.

The Region continues to grow in both membership and technical vitality. At the end of October 1995 the total

membership in the Region was 32,000, in comparison with 28,000 last year. Membership is now more than 10% of the total (310,000 at the end of November 1995).

IEEE has launched its 1996 Member-Get-A-Member campaign, and in the November 1995 issue of the Region 8 News a special Region 8 Membership Application Form was inserted. As Regional Director I strongly encourage you to use this opportunity to extend the services of the IEEE to more engineers within our field of interest. The IEEE has so much to offer: professionally, technically, and socially.

The Region 8 Application form can also be used by students, who pay as little as \$20.00 per year in dues. Unfortunately it is indicated on the form, that "For students only the first Society is free"; that is not exactly the case. As described on page 3 by the Region 8 Membership Development Chairman, Walter Proebster, new student members in Region 8 are offered one free basic Society Membership for one year only. Additional journals and transactions, and additional Society Memberships are not free

Sections and Chapters

Including the recently formed Bulgaria Section, the region now has 36 Chapters and 36 Sections. The formation of new active chapters is essential in order to improve the service to members. The major Societies give financial support to chapter activities. (Continued on p.3)

Active Volunteers for Service on the Region 8 Committee

By Mr. Basil W. Osborne

Educational Activities and Chapter Coordination

From candidates with a good track record of service to the IEEE, the Regional Committee is looking for nominations to fill two vacancies as Appointed Representatives. The Chair of the Region's Nominations and Appointments Committee for 1996, Professor Charles Turner, wishes to encourage a wider participation in the Region's affairs. He hopes that names will reach him from those with some previous IEEE experience, whether in a Section, in a Chapter or in a Society. His address is: Department of Electronic and Electrical Engineering, King's College London, Strand, London WC2R 2LS.

E-mail: c.turner@ieee.org

Fax: +44 171 836 4781

These vacancies will be filled at the end of 1996. Those selected will serve on the Region 8 Committee for the three years 1997-99; they will be the Regional Representatives for Chapter Coordination and for Educational Activities.

Director Elect 1998

The Nominations and Appointments committee will, at the November '96 meeting of the Region 8 committee, put forward names for the election of the Regional Director-elect for 1998 (to serve as Director during 1999 and 2000). Names - with the consent of the persons concerned - should go through a member of the Regional Committee to Professor Turner at the address given in the previous paragraph.

UKRI

MTT/ED/AP/LEO Joint Chapter

By Terry Oxley

Planning of the Chapter 1996 activities is almost complete; attention is drawn to events of international interest:

- **7th June 1996** - The 3rd IEEE Joint European Chapter Workshop on "CAE, Modelling and Measurement Verification" will be held in Paris in conjunction with the GaAs'96 Conference. Contact *Philippe Dueme, Dassault Electronics*. TEL: +33-1-3481-6161, FAX: +33-1-3491-7378.

- **10-11th June 1996** - The 2nd International Conference on Electronics Technologies ICET96 will be held at the Ramada Hotel Heathrow London. Organised by ISHM-UK in cooperation with the IEEE Chapter, the conference will focus on themes of Microwave Materials, Microwave Devices and Microwave Applications. Contact: *ICET96 ISHM-UK, 13 Firlands, Bracknell, Berkshire RG12 9SB UK*. TEL: +44 1344-301491. FAX: +44 1344-481988.

- **13th September 1996** - The 2nd High Frequency Postgraduate Student Colloquium will be held at The University of Manchester Institute of Science and Technology (UMIST). Jointly sponsored by the Chapter and UMIST the event has technical co-sponsorship support from EDS and cooperative support from the national IEE. The CALL-FOR-PAPERS DEADLINE is 5th July 1996.

- Contact Rob Sloan, Dept. Electrical Engineering & Electronics, UMIST, PO Box 88, Manchester, M60 1QD, UK. TEL: +44 161-200-4640, FAX: +44 161-200-4820. E-mail: sloan@umist.ac.uk.

- **7-9th October 1996** - EUREL International Conference on "The Detection of Abandoned Land Mines - a humanitarian imperative seeking solution" will be held at the Edinburgh International Conference Centre, Edinburgh Scotland, UK. The event is organised by the national IEE with the Chapter cooperative support. Contact: "MD96" Secretariat, Conference Services, IEE Savoy Place, UK. Tel: +44 171-240-1871. Fax: +44 171-240-8830.

- **25 & 26th November 1996** - The 4th IEEE International Workshop on "High Performance Devices for Microwave and Optoelectronic Applications" (EDMO'96) will be held at The University of Leeds. Jointly sponsored by the Chapter and the University of Leeds the event has technical co-sponsorship support from EDS and cooperative support from MTT-S. The CALL-FOR-PAPERS DEADLINE is **2nd September 1996**. Contact: *Stavros Iezekiel, Dept. Electronic & Electrical Engineering, University of Leeds, Leeds LS2 9JT, UK*. TEL: +44 113-233-2088. FAX: +44 113-233-2032. E-mail: s.iezekiel@elec-eng.leeds.ac.uk.

At the end of a four year term, Terry Oxley is standing down as Chapter Chairman. The Chairman, as from March 1996 will be: *Dr Neil Williams, ERA Technology Ltd, Cleeve Road, Leatherhead, Surrey KT22 7SA, UK*. TEL: +44 1372 367061. Fax: +44 1372 367099, E-Mail: info@era.co.uk.

For further information please contact the incoming Chairman at the address in the previous paragraph, or the outgoing Chairman at: "Tremont", Back Lane, Halam, Southwell, Newark, Notts NG22 8AG. Tel: +44 1636 815510. Fax: +44 1636-815865. E-mail: t.oxley@ieee.org



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- ❖ **Low-noise BiCMOS Analog Integrated Circuit Design**
28 February - 1 March 1996
- ❖ **CMOS/BiCMOS Analog Integrated Circuit Design**
1 - 5 July 1996
- ❖ **Multimedia Compression: Principles, Applications & Standards**
5 - 7 June 1996
- ❖ **Current Mode Circuits: Techniques in High Frequency Analog Design**
8 - 10 July 1996
- ❖ **Safety Critical Systems**
16 - 20 September 1996
- ❖ **Microsystems Technology**
September 1996
- ❖ **Neural Networks: Basics, Applications and Future**
September 1996

All the above courses are recognised by IEE for Professional Development Units.

Further details from:
Sally Verkaik, Continuing Education Centre, Imperial College, Room 558 Sherfield Building, Exhibition Road, South Kensington, London SW7 2AZ, UK.
Tel: +44 (0)171 594 6882/1 Fax: +44 (0)171 594 6883
E-mail: cpd@ic.ac.uk

At the leading edge of research innovation and learning

(Continued from p 1.)

and some of them arrange regular coordinated Chapter Meetings for the benefit of the chapters.

In order to qualify for the Rebate Financial support, Chapter and Section chairmen are responsible for reporting all the activities of their Sections and Chapters to Headquarters; if the completed returns are postmarked not later than February 23rd 1996, the Rebate will be increased by 10%.

It is unfortunate that for a variety of reasons some Sections and Chapters in Region 8 are not active. Members in locations where the section is not active, are strongly encouraged to put pressure on the Section Chairman and his committee. Please make sure, that elections take place according to the IEEE bylaws. In case such pressure has no effect, please do not hesitate to contact me personally. From my side, I shall need your support for reactivating sections and chapters.

Regional Conferences

Two highly esteemed regional conferences will take place in 1996. The first is MELECON '96 in Bari, Italy on May 13-16, 1996. The Technical Program Committee has accepted 232 papers and 162 poster sessions to be presented. The sponsoring industry will create an exhibition in a separate hall in the park of Villa Romanazzi, where the conference takes place.

The second is AFRICON '96 in Stellenbosch, South Africa, on 24-27 September 1996. The conference is under preparation at the University, which offers quite suitable facilities for parallel sessions.

The Conference Committee and the Chapter Coordinating Committee of Region 8 are very concerned with the coordination of IEEE Conferences and workshops held in the region. It is very important that the local Section and Chapters are involved directly in the planning and conduct of these events.

In 1995 the IEEE organized a one-day Entrepreneurial Seminar in Moscow and in Warsaw with speakers primarily from the North Carolina State University, by initiative by the Past President Troy Nagle and the IEEE Executive Director T.W. Hissey. The 1996 Entrepreneurial Seminars will take place in St. Petersburg, Minsk and Budapest. Financial support is being provided by the IEEE Foundation for development of educational materials and documentation.

Organizational Improvement

The effort to improve the organizational structure and processes has continued throughout 1995. The Board of Directors was in December requested to select one model out of two presented by the Strategic Planning Committee, i.e. the Federation Model or the Integrated Model.

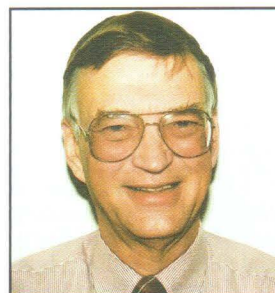
However, neither of the models was considered satisfactory by the Board. It was decided to establish an "Implementation Committee for Structural Reorganization". Fernando Aldana was appointed Chair. The remainder of the Committee will include two Regional Directors, two Divisional Directors, the IEEE Presidents (past, present, and elect), and the Vice Presidents of Regional Activities Board, the Technical Activities Board, and the United States Activities Board.

The Implementation Committee will present a new plan at the Board of Directors meeting in San Diego, CA in February 1996, based on questionnaire results collected in December. All directors agreed, that the directors of the BoD in the new organization should have a technical and a geographical affiliation. Regarding the question of whether or not the Directors should be "at large", opinions were almost equally balanced. From the Region 8 point of view I stressed, that the Region 8 Director must be a member of the Board. The special interests of Region 8 members can only be represented and defended by a director elected directly by the members in the Region.

The IEEE Challenge

The success of the Regions is entirely dependant on the efforts of a large number of volunteers; there is a continuous need for new volunteers, to improve member activities and to keep IEEE a young organization. It is a challenge to take

active part in the organization on all levels, a challenge which gives you new opportunities to meet colleagues both nationally and internationally.



On behalf of the IEEE I wish to express my sincere appreciation of the efforts of thousands of volunteers in Region 8, and I wish all members a prosperous New Year .

Peer-Martin Larsen - Director Region 8

London, UK

22-25 July 1996

ISDSP '96 - International Symposium on

Digital Signal Processing

ISDSP Secretariat

Trusty Business Machines Ltd.

Colchester CO3 3HH, UK

Tel; +44 1206 764456 Fax: +44 1206 764457

Seville, Spain

24-26 June 1996

CNNA '96 - Fourth IEEE International Workshop on

CELLULAR NEURAL NETWORKS & APPLICATIONS

CNNA '96 Secretariat. Centro Nacional de Microelectronica

Edif. CICA, Avda. Reina Mercedes s/n. E-41012 Sevilla - SPAIN

Tel 34 5 423 9923. Fax 34 5 423 1832. E-mail: cnna96@cnm.us.es

WWW page: <http://www.cica.es/~cnm/cnna96>

Seville, Spain

27-28 June 1996

NDES '96 - Fourth IEEE International Workshop on

Nonlinear Dynamics of Electronic Systems

NDES '96 Secretariat. Centro Nacional de Microelectronica

Edif. CICA, Avda. Reina Mercedes s/n. E-41012 Sevilla - SPAIN

Tel 34 5 423 9923. Fax 34 5 423 1832. E-mail: ndes96@cnm.us.es

WWW page: <http://www.cica.es/~cnm/ndes96>

Membership Development

By Professor Walter E. Proebster

An IEEE Membership Development Meeting took place in Philadelphia, on January 19th-21st 1996. About 50 MD delegates were present from Sections, Regions and Staff.

Numerous proposals and action plans were formulated. One concern is that there has been little increase in Society memberships; a counter measure which is may help to alleviate this problem is already in effect, i.e. that new members signing up at the place of an IEEE conference are offered one free Society membership for one year. At the meeting it was proposed that this offer should be extended to every new member. Along these lines the delegates welcomed the move by Region 8, published in our last Region 8 News, to offer one free Society membership to every new student member. It has to be added that this is for one year only and just for the basic Society fee, not for any additional journals and Transactions of that Society.

Melecon '96 - Bari, Italy: -13-16th May

By Professor Baldomir Zajc, Dr. Antonella D'Orazio,

Professor Marco De Sario

The response to the Melecon '96 Call for Papers has been very satisfactory, some six hundred papers having been submitted. From these, two hundred and twenty eight have been selected for oral presentation and one hundred and ninety six as poster contributions. The papers will be presented in six parallel tracks:

Sessions	Distinguished Speakers
Computers 3	Prof. Brian J. Cory , Dept of Electrical & Electronics Eng., Imperial College, London. " Pricing in Electricity Transmission & Distribution "
Control & Robotics 4	Prof. Alberto Sangiovanni Vincentelli , Dept. of Electrical Engineering and Computer Science, University of California, Berkley, USA. " Trends in Electronic Systems "
Electrical Machinery 5	Prof. Mario Gerla , Dept of Computer Science, UCLA, USA. " ATM Networks: Bandwidth Allocation and Congestion Control "
Electronics 5	
Measurements 2	
Microwaves & Antennas 4	
Photonics 2	
Power Systems 9	
Telecomm & Signal Processing 5	
Neural Networks 3	

The Steering committee and the International Technical committee have ensured that Melecon '96 will have a strong didactic element in its programme. There will be nine key lectures from eminent scientists, a special session on Mobile and Personal communication and a Technical Exhibition

Dr. Roberto Fantechi, SGS Thomson Microelectronics, UK: "The use of High Performance Microprocessors in Consumer Computing Applications" for the topic Computers.

Prof. Hugh F. Vanlandingham, Virginia Polytechnic Institute, Blacksburg USA: "Intelligent Control Applications in the Chemical and Power Industries" for the topic Control and Robotics.

Prof. Peter Vas, Dept of Engineering, University of Aberdeen, UK: "Electrical Machines and Variable Speed Drives; Present and Future" for the topic Electrical Machinery

Dr. Giuseppe Zocchi, SGS Thomson Microelectronics, Agrate Brianza, Milan, Italy: "Semiconductors Technology Roadmap and Industry Strategic Planning" for the topic Electronics.

Prof. Jeanne Garat, Centre d'etudes scientifiques et techniques d'Aquitaine, France: "Microwave Techniques for Radar Cross Section Measurements: a Review" for the topic Measurements.

Dr. Holger H. Meinel, Daimler Benz Research Centre, ULM Germany: "Automotive Applications of Millimeterwaves" for the topic Microwaves and Antennas.

Prof. Andreas Weigend, Department of Computer Science and Institute of Cognitive Science, University of Colorado, USA. "Modelling, Learning and Meaning" for the topic Neural Networks.

Prof. David A. Smith, Case Western Reserve University, Cleveland, U.S.A.: "Technology and Applications of the Integrated Acousto-Optic Filter" for the topic Photonics.

Dr. Dejan J Sobajic, Electric Power Research Institute, Palo Alto, California, USA: "An introduction to Normal Forms of Vector Fields; New Framework on Nonlinear Analysis of Highly Stressed Power Systems" for the topic Power Systems.

The special session for the tenth topic: Telecommunications and Signal Processing: "Mobile & Personal Communication" will be coordinated by **Prof. Gabriele Falciasecca**, from the University of Bologna, Italy. Recent developments in this field will be discussed by a panel of experts from several countries: **Dr. William Lee** from San Francisco USA; **Dr. E Damosso** - President of Cost 231; **Dr. Mario Frullone** from Fondazione Ugo Bordoni, Italy.

The Social Programme will include two gala dinners, and an interesting tour to the Castel del Monte and the surrounding countryside. For further information: **Dr. Antonella D'Orazio**, Melecon '96 Secretariat, DEE Dipartimento di Elettrotecnica ed Elettronica, Politecnico di Bari, Via E. Orabona 4 - 70125 Bari - Italy. Fax: +39 80 546 0410. E-mail: melecon@poliba.it. The advance programme and other useful information about Melecon '96 can be found on Internet using the following address: <http://deee1t02.poliba.it/melecon/melecon.html>



NEW FROM WILEY

Advanced Signal Processing and Digital Noise Reduction

Dr S. Vaseghi, Queen's University of Belfast, UK

Stochastic signal processing plays a central role in telecommunications and is employed in a range of applications from speech technology, audio and radar signal processing to pattern analysis and data forecasting. This book provides a coherent and structured representation of the theory and practice of stochastic signal processing and its application to digital noise reduction and equalisation. The graphical and highly accessible approach will appeal to a broad range of readers, including professional engineers in the telecommunications, audio and signal processing industry.

0471 95875 1 due March 1996 approx 400pp approx £40.00

Disk Included

Active Noise Control

Algorithms and DSP Implementations

Sen M. Kuo, Northern Illinois University, USA and Dennis R. Morgan, AT&T Bell Laboratories, USA

The recent development of digital signal processing hardware and adaptive signal processing algorithms has resulted in a dynamic new way of achieving active noise control (ANC). To meet the need for a definitive text on both the basic theory and practical applications of these new ANC techniques, Kuo and Morgan have written an invaluable, highly accessible book for researchers, engineers and advanced students in signal processing. The text features derivations and analyses commonly-used adaptive structures and algorithms for ANC applications. It also highlights numerous applications using real-world problems and simulated experiments. Copious illustrations that facilitate the interpretation of complex algorithms are also included. The accompanying disk includes C programs and assembly programs that implement many active noise control systems.

0471 13424 4 (cl/disk) due March 1996 approx 400pp approx £55.00

High Performance Memories

Betty Prince, Memory Strategies International, Texas, USA

Providing comprehensive coverage of a new generation of high bandwidth memories, this book surveys the major products and trends in this rapidly developing field. All high performance memories are treated objectively, highlighting operational features and timing diagrams which illustrate product functions. Written by a well-known author in the field, this timely book will appeal to practising engineers involved in the design and manufacture of high speed systems and semiconductor memories.

Advanced students of electrical engineering and researchers in computing and telecommunications will also find this a useful reference.

0471956465 due April 1996 approx 300pp approx £55.00

Foundations of Electroheat

A Unified Approach

A. C. Metaxas, Fellow of St John's College, Cambridge, UK

Electroheat is an extremely diverse subject area comprising many topics from laser welding to plasma furnaces for waste treatment and from induction heat for forging to radio frequency drying of textiles.

Highlighting an extensive range of practical applications in industry, this new text unifies three major areas of electroheat: Electromagnetic Heating; The Ionised State and Heat and Mass Transfer. The impact of computers on electrotechnology is explored in depth by considering topics such as expert systems, neural networks and computational electromagnetics. Worked examples are also included.

0471 95644 9 (cl) due March 1996 approx 400pp approx £45.00

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WEST SUSSEX, PO19 1UD, UK

Mediterranean Workshop - on Coding and Information Integrity will be held February 26-28, 1996 at Palma de Mallorca, Spain. This workshop is sponsored by the Balearic Island Government, UIB, ERCIM, IEEE French and Israeli Chapters on Information Theory, ENST-France, INRIA-France, CNRS-France. Inf.: M. Jose Luis Ferrer; Fax: + 34 71 17 30 03. E-mail: dijjfg@ps.uib.es

IEEE SIMC 9th Conference on Semiconducting and Insulating Materials, Sponsored by the Electron Devices Society, will be held on April 29-May 3 in Toulouse, France. Inf.: Ms. Josiane Sutra, CEMES/CNRS, 29 rue Jeanne Marrig, BP 4347, 31 055 Toulouse Cedex, France; Tel: + 33 62 25 78 00; Fax: + 33 62 25 79 99; or IEEE Conference Services Department Tel: + 1 908 562 3878.

1996 IEEE - SP International Symposium on Time - Frequency and Time Scale Analysis, Sponsored by the IEEE Signal Processing Society and CNRS - France, will be held on June 18-21 in Paris. Inf.: M. Inbar Fijalkow, ETIS - ENSEA, 6 av. du Ponceau, 95 014 Cergy - Pontoise Cedex; Tel: + 33 1 30 73 66 10; Fax: + 33 1 30 73 66 27, E-mail: tfts96@ensea.fr; or IEEE Conference Services Department Tel: + 1 908 562 3878.

OCEANS 96 MTS/IEEE, The Coastal Ocean, will be held on 23-26 Sept. 1996 in Fort Lauderdale, Florida. This Conference sponsors a Student Poster Program/Competition. Deadline for abstracts: April 30, 1996. Inf.: Prof. René Garello, Télécom Bretagne, ITI, BP 832, 29 285 Brest Cedex, France; Tel: + 33 98 00 13 71 or + 33 98 00 10; Fax: + 33 98 00 10 98; E-mail: rene.garello@enst-bretagne.fr

MTT & ED France Chapter.

In 1995 the Chapter benefitted from the strong development of the EDS Distinguished Lecturers Programme. The Chapter received Dr. Hiroshi Iwai, from ULSI Res. Labs, Toshiba, Japan, on June 6th Dr. Iwai presented an exciting overview of "Silicon MOSFET". On September 28th, the Chapter was honored by the visit of EDS Vice-President, Dr. Louis Parrillo from Motorola, Texas. Dr. Parrillo gave an enlightening presentation on "Advanced Technology Challenges for High-Performances Microprocessor Application", and introduced the ULSI Logic Technology Roadmap. The Chapter organized, in May 1995, a microwave lecture by Prof. G. Rebeiz, University of Michigan, Ann Arbor, entitled "Mm-Wave Electronics and Micromachined Microwaves at the University of Michigan".

The main event for the Chapter in 1995 was the IEEE International Topical Meeting on "Nomadic Microwave Technologies and Techniques for Mobile Communications and Detection", NMTTMCD95, held on Nov. 16-17 in Arcachon, nearby Bordeaux. The program with 33 papers from eight countries including 11 invited papers created a lively atmosphere among the fifty attendees. There were warm discussions about the merits and the future developments of silicon CMOS and BiCMOS as well as GaAs technologies.

The Chapter, in 1996, will pursue a program of Distinguished Lectures and will in particular promote student membership. The main event will be its involvement in the organisation and the co-technical sponsorship of the "4th European Gallium Arsenide Applications Symposium"- GAA96, in Paris, France, June 5-7. A CAD Workshop coordinated with MTT European Chapters is organised within GAAS96. For information on the topics which cover widely microelectronic and optoelectronic devices and circuits using III-V and IV-IV compound semiconductors, contact: Christian Rumelhard, CNAM, Tel: + 33 1 40 27 21 79; Fax: + 33 1 40 27 24 81; E-mail: rumelhard@cnam.fr. For further Chapter information, please contact Chapter Chair: Prof. Robert Adde, IEF, Université Paris 11, bât. 220, 91 405 Orsay Cedex, Tel: + 33 1 69 41 78 50; Fax: + 33 1 60 19 25 93, E-mail: adde@ief-paris-sud.fr or r.adde@ieee.org

NEWS IN FRENCH

Création du CHAPITRE français de la Power Electronics Society (PELS). M. le professeur Gérard-André CAPOLINO organise ce

chapitre; les intéressés sont invités à le contacter à l'Université de Picardie, IUP, Département Génie Electrique & Informatique Industrielle, 33 rue Saint-Leu, 80039 Amiens Cedex ; tel. (16) 22 32 78 21 ; fax : (16) 22 82 78 22

CHAPITRE EMC.

Durant l'année 1995 - 1996, le Chapitre Français, Belge et Luxembourgeois de IEEE EMC et la SEE, Club 25 (Waves & Signals), organisent les conférences suivantes: - courant janvier - mars 1996 : "GTEM Cells and the EMC - Directive", par Dr. Perry Wilson, ABB Research Laboratories; - mars ou juin 1996 "Modélisation : une approche économique pour le management CEM", par M. BENIGUEL.

Les conférences ont lieu à l'ISEP - Institut Supérieur d'Electronique de Paris, Auditorium n° 26, 28 rue Notre-Dame des Champs, 75 006 Paris. Pour toutes les informations, prière de contacter le Dr. Ferdy Mayer (IEEE EMC-S Chapitre) ; tel. (1) 44 49 60 00 ; fax : (1) 44 49 60 49 ; ou Dr. Berthon (SEE Club 25), tel. (1) 45 14 13 13.

LES ANCIENS DE LA RADIO ET DE L'ELECTRONIQUE vous invitent aux conférences suivantes:

- le 6 février 1996, "Evolution de l'électronique automobile", par J.L. POMMERAU, conseiller de P.S.A.; -

- le 14 mai 1996, "La Radioastronomie" par Nguyen-Quang RIEU, directeur de recherches à l'Observatoire de Paris ;

- le 11 juin 1996 "Les atomes froids - Applications aux horloges atomiques (... et à la navigation ?)", par Christophe SALOMON, directeur de recherche à l'Ecole Normale Supérieure de Paris.

Les conférences ont lieu à 17 heures à la F.I.E.E., 17 rue Hamelin, 75 116 Paris, secrétariat : M. CRANELLE ; (noter le changement du secrétariat suite au décès de notre amie Madame BIRCKEL); elles sont suivies d'un pot amical.

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LOW-POWER / LOW-VOLTAGE ANALOG IC DESIGN

Course 1 : June 24-28, 1996

Limits to Low-Power/Low-Voltage Analog Circuit Design	E.VITTOZ, CSEM
Basic Analog Circuit Techniques for Micropower	E.VITTOZ, CSEM
Analog Micropower Building Blocks and System Design	E.VITTOZ, CSEM
MOS Modeling for LV-LI Circuit Design	C. ENZ, EPFL
Low-Voltage Opamp Cells	J. H. HUIJSING, TU Delft
LP-LV Amplifiers, Comparators and S&H	B. RAZAVI, AT&T Bell Labs
SC Supply Voltage Down- and Up-Converters	G. TEMES, OSU
Design of Linear SC Circuits in Digital CMOS Technology	G. TEMES, OSU
The Design of Low-Voltage SC Filters	D. SENDEROWICZ, SynchroDesign
Low-Voltage/Low-Power SC and CT Filters	R.CASTELLO, UPV
Biasing Techniques for RF/IF Signal Processing	B. GILBERT, Analog Devices
Design for Monolithic Voltage References	B. GILBERT, Analog Devices
Design Practices for Manufacturing Robustness	B. GILBERT, Analog Devices
The Design of LP, High-Speed ADCs	P. GRAY, UC Berkeley
LP-LV Delta-Sigma Converters	J. GRILO, Rockwell
Low-Power Mixed-Signal Design for Medical Devices	D.WAYNE, DMA, Inc.

RF IC DESIGN FOR WIRELESS COMMUNICATION SYSTEMS

Course 2 : July 1-5, 1996

Overview of RF Systems, BiCMOS for IF/RF	K. HANSEN, MOTOROLA
Archit. and Design of CMOS RF Transceiver Impl.	P. GRAY, UCB
Wireless CMOS Receiver Front-End Circuits & Systems	M. STEYAERT, KUL
GHz Low Phase Noise VCOs in CMOS	M. STEYAERT, KUL
CMOS GHz Prescalers and Up-Converters	M. STEYAERT, KUL
Radio Access Methods and Equipment Architecture	J. RAPELI, NOKIA MOBILE PHONES
Delta-Sigma Converters for Wireless Devices	L. LONGO, OASIS DESIGN)
Design of Bipolar Si/SiGe LNAs, from Ground-up	B. GILBERT, ANALOG DEVICES
Design Considerations for BJT Active Mixers	B. GILBERT, ANALOG DEVICES
Low-Intermodulation RF/IF Amplifiers and AGCs	B. GILBERT, ANALOG DEVICES
RF-Heterodyne Receiver Design Technique	J. FENK, SIEMENS
Wireless Transmitter and Receiver Design	I. KOULLIAS, WIRELESS MICROSYST.
Power Amplifiers for Wireless Comm. Handsets	C. KERMARREC, ANALOG DEVICES
T/R Switching and Time Division Duplex (TDD)	C. KERMARREC, ANALOG DEVICES
Parasitic Effects in High-Frequency ICs	B. BLAUSCHILD, PHILIPS
High-Frequency PLLs for Transceivers	B. BLAUSCHILD, PHILIPS

Deadline for Registration : **May 25**

Registration Fees : Any One Course = 2'700.- CHF, Both Courses = 4'400.- CHF

ADVANCED ENGINEERING COURSE ORGANIZED BY

Electronics Laboratories of the Swiss Federal Institute of Technology Lausanne, Switzerland

ADVANCED CMOS & BiCMOS IC DESIGN '96

August 19 - September 6, 1996

EPFL, Lausanne - Switzerland

ADVANCED DIGITAL IC DESIGN

Session I : August 19-23, 1996

Evolution and Trends of Microelectronics	M.DECLERCQ, EPFL
CMOS & BiCMOS Static Logic	P. DUCHENE, EDAS
High-Speed Single-Phase Dynamic Logic	C. SWENSSON, Linköping Uni.
Interconnects and Related Problems	C. SWENSSON, Linköping Uni.
Archit. and System Opt. of Power Cons.	A. CHANDRAKASAN, MIT
Ultra Low-Power Digital Design	C. PIGUET, CSEM
High-Speed BiCMOS Circuit Techniques	H.-J.PFLEIDERER, Uni. Ulm
Clocking Strategies	K.ESHRAHIAN, E. Cowen Uni.
Systolic Arrays	H.-J.PFLEIDERER, Uni. Ulm
Memories and Regular Structures	K.ESHRAHIAN, E. Cowen Uni.
PLA, Latch-up and Protections	K.ESHRAHIAN, E. Cowen Uni.
I/O and Chip Assembly	K.ESHRAHIAN, E. Cowen Uni.
VHDL for VLSI Design	A. VACHOUX, EPFL
Design for Testability	A. OSSEIRAN, EPFL

ADVANCED ANALOG IC DESIGN

Session II : August 26-30, 1996

MOS and Bipolar Transistors	E. VITTOZ, CSEM
Modes of Operation and Models	E. VITTOZ, CSEM
Passive Components / Parasitics	E. VITTOZ, CSEM
Analog Layout Techniques	E. VITTOZ, CSEM
Elementary Building Blocks	E. VITTOZ, CSEM
Analog Functional Blocks	W. SANSEN, KUL
Opamps and Comparators	W. SANSEN, KUL
Voltage References	E. VITTOZ, CSEM
Oscillators	E. VITTOZ, CSEM
BiCMOS Building Blocks	H. CASIER, MIETEC
Off-chip Drivers	R. CASTELLO, UPV
Delta-Sigma Data Modulators	G. TEMES, OSU
Low-Noise Amplifiers	C. ENZ, EPFL
Future Trends in Analog ICs	E. VITTOZ, CSEM

PRACTICAL ASPECTS IN MIXED-MODE

Session III : September 2-6, 1996

Mixed-Signal Circuit Layout Techniques	T. SCHMERBECK, IBM
Noise Coupling in Analog ICs	T. SCHMERBECK, IBM
Design Reducing Noise Coupling	T. SCHMERBECK, IBM
Design of Linear SC Circuits in Digital CMOS	G. TEMES, OSU
Practical Aspects of SC Circuit Design	G. TEMES, OSU
CDS and Chopper Stabilization Techniques	G. TEMES, OSU
Smart Power ICs for DC-DC Converters	T. SZEPESI, ADI
Potentials and Limitations of SI Circuits	P. DEVAL, MEAD
GHz Low Phase-Noise VCOs in CMOS	M. STEYAERT, KUL
CMOS GHz dual-modulus prescalers	M. STEYAERT, KUL
MOS Modeling for LV-LI Circuit Design	C. ENZ, EPFL
Trends in VLSI Technologies	G. DECLERCK, IMEC
On-Chip Voltage References and Grounding	P. BROKAW, ADI
Battery Backup Circuits, OpAmps and Bias	A. GANESAN, Consultant

Deadline for Registration : **JUNE 28, 1996**

Registration Fees : Any One Session = 2'600.- CHF, Any Two sessions = 3'600.- CHF, All Three Sessions = 4'600.- CHF

Course Directors: Michel Declercq, Gabor Temes, Vlado Valence and Eric Vittoz

Contact & Registration Address: V. Valence, EPFL-LEG, EL-Ecublens, 1015 Lausanne, Switzerland, Tel : +41-21-691-0244, Fax : +41-21-691-0245, e-mail : valence@mead.ch

- These courses are part of the EPFL Electronics Lab's contribution to the EC program EURO PRACTICE, for which the EPFL has been designated a "Technology Transfer Node" (TTN). -

Awards & Recognitions

By Professor E. Folke Bolinder

Fellows - as from 1st January 1996

AUSTRIA

Franz W. Leberl - For contributions to the development of Radargrammetry and the demonstration of the usefulness of aircraft and satellite radar imagery in mapping tropical land, sea-ice, and planetary surfaces.

BENELUX

Jean-Pierre Colinge - For contributions to silicon-on-insulator devices and technology

Ed Ferdinand Deprettere - For contributions in algorithm and architecture design for adaptive signal processing.

Jean Robert - For the development of simulation techniques for electrical machines and power systems and contributions to higher education

Antoine Georges Roederer - For contributions in the field of arrays and multibeam reflector antennas.

CZECHOSLOVAKIA

Vladimir Kucera - For significant contributions to the theory and design of control systems.

FRANCE

Pierre E. Borne - For contributions to qualitative analysis and control of large scale and complex systems.

Victor Fouad Hanna - For contributions to the development of advanced numerical techniques for analysis and modelling of passive microwave and millimetre wave circuits.

Gerald Lebizay - For the advancement of the state of the art in data and voice communication systems and entrepreneurship that contributed to the adoption of asynchronous transfer mode switching by the computer networking industry.

GERMANY

Adalbert Beyer - For the development of numerical field analysis techniques and their application to the design of new reciprocal and nonreciprocal millimeterwave fineline components.

Hans H. Brand - for contributions to microwave networks, for their applications to realtime imaging systems and for the extension of microwave technology into the Terahertz region.

Max Schaldach - For contributions to the development of biomedical implantable devices.

Armin W. Wieder - For scientific contributions to bipolar technology and simulation.

CENTRAL and SOUTH ITALY

Vito Cappellini - For leadership in digital filtering and image processing.

Paolo Lampariello - For pioneering investigations of leakage effects on open waveguides with application to a new class of millimetre wave antenna.

Franco Maloberti - For contributions to design methodologies for analog integrated circuits and outstanding leadership in microelectronics education and research.

Luigi Salvaderi - For contributions to the application of Monte Carlo techniques in power system reliability evaluation.

ROMANIA

Ion Gheorghe Boldea - For contributions to the theory, design and application of linear motion electric machines, drives and magnetic levitation, and for leadership in engineering education.

SPAIN

Angel B. Rodriguez-Vazquez - For contributions to the design and applications of analog/digital nonlinear ICs.

SWEDEN

Harold W. Lawson, Jr. - For outstanding contributions to programming languages, to microprogramming, and to various other fields in computer science and education.

SWITZERLAND

Michel V. Ianoz - For contributions to research and education in the area of transient electromagnetics with applications to lightning and EMP effects on lines and networks,

RUSSIA

Yakov Z. Tsyppin - For contributions to the theory of discrete-time control, relay control, and applications.

UNITED KINGDOM AND REPUBLIC OF IRELAND

Derek P. Atherton - For pioneering contributions to the describing function techniques for nonlinear control systems design.

Sidney Robert Bowes - For contributions to the development of novel pulse width modulated techniques for variable speed induction motor drives.

Peter Mitchell Grant - For contributions to surface acoustic wave processing and leadership in signal processing research.

Thomas James Hammons - For analysis of performance of turbine-generators and their electromechanical interaction with power networks.

Timothy John Eastham Miller - For development of switched reluctance and permanent magnet motors and their controls, and for services to industry in support of research and development of products based on these technologies.

Christopher Maxwell Snowden - For pioneering work on the development and application of physical models to the design of microwave and millimetre-wave semiconductor devices and circuits.

Raymond Steele - For fundamental contributions to digital wireless communications, including principles of microcall operation and multilevel modulation.

Field Awards

IEEE CONTROL SYSTEMS AWARD

VLADIMIR A. YAKUBOVICH. (Non Member)

Professor Dept. of Mathematics & Mechanics, Head of Theoretical Cybernetics Chair, St. Petersburg University, Russia
For "Pioneering and fundamental contributions to stability analysis and optimal control"

MASARU IBUKA CONSUMER ELECTRONICS AWARD

KEES A. SCHOUHAMER IMMINK (F' IEEE)

Philips Research Fellow, Philips Research Laboratories, Eindhoven.
"For Pioneering contributions to consumer digital audio and video recording products."

SOLID-STATE CIRCUITS AWARD

RUDY J. VAN DE PLASSCHE (F' IEEE)

Philips Research Fellow, Philips Research Laboratories, Eindhoven, The Netherlands
"For pioneering contributions to the design of integrated circuits for data conversion."

IEEE NIKOLA TESLA AWARD

JOHN A. TEGOPOULOS (LF' IEEE)

Professor Emeritus, Department of Electrical and Computer Engineering, National Technical University of Athens, Greece
"For pioneering contributions in electrical machine design".

Bordeaux, France

3-6 September 1996

ICF-7

7th International Conference on Ferrites

Information: Vladimir Cagan, General Secretary
Laboratoires CNRS - FR 92195 Meudon

Fax: (33)(39 25 46 52 E-mail: vladimir.cagan@physique.uvsq.fr

Region 8 Conference Record

Brighton UK 5-7 March 1996 Tenth European Frequency & Time Forum IEE Conference Office, Savoy Place, London WC2R 0BL Tel: +44 (0) 171 344 5467. Fax: +44 (0) 171 240 8830 E-mail: conference @iee.org.uk	L'Aquila, Italy 12-14 June 1996 8th Euromicro Workshop on Real-Time Systems Contact: Petri Pulli, VTT Electronics, PO Box1100, FIN-90571 Oulu, Finla Tel: +358 81 5 51 2111. Fax: +358 81 551 2320 E-mail: petri.pulli@vtt.fi
Durham, UK 18-20 March 1996 Opportunities and Advances in International Electrical Power Generation IEE Conference Office, Savoy Place, London WC2R 0BL Tel: +44 (0) 171 344 5472. Fax: +44 (0) 171 240 8830 E-mail: conference @iee.org.uk	Prague, Czech Republic 2-5 September 1996 22nd Euromicro Conference Contact: Peter Milligan, The Queen's University of Belfast Department of Computer Science, Belfast BT7 1NN, N. Ireland Tel: +44-1232-245 133. FAX: +44 1232 331 232 E-mail: p.milligan@qub.ac.uk
University of Bath, UK 10-12 April 1996 Third International Conference on Computation in Electromagnetics IEE Conference Office, Savoy Place, London WC2R 0BL Tel: +44 (0) 171 344 5467. Fax: +44 (0) 171 240 8830 E-mail: conference @iee.org.uk	IEE, London, UK 16-18 April 1996 Fourth International Conference on Power System Control & Management Contact: PSCM '96, IEE Conference Office, Savoy Place London WC2R 0BL. Fax: +44 171 240 8830 E-mail: conference@iee.org.uk (quote PSCM in your message)
IEE, London 29 April - 3 May 1996 Sixth International Conference on AC and DC Power Transmission IEE Conference Office, Savoy Place, London WC2R 0BL Tel: +44 (0) 171 344 5472. Fax: +44 (0) 171 240 8830 E-mail: conference @iee.org.uk	The Brighton Centre, Brighton, UK 3-5 July 1996 Eighth International Conference & Exhibition on Metering and Tariffs for Energy Supply Contact : MATES '96, IEE Conference Office, Savoy Place, London WC2R 0BL. Fax: +44 171 240 8830. E-mail: conference@iee.org.uk (quote MATES in your message)
IEE, London 13-15 May 1996 Fifth International Conference on Satellite Systems for Mobile Communications & Navigation IEE Conference Office, Savoy Place, London, WC2R 0BL Tel: +44 (0) 171 344 5472. Fax: +44 (0) 171 240 8830 E-mail: conference@iee.org.uk	Florence, Italy 5-6 September 1996 5th International Workshop on Time-varying Image Processing & Moving Object Recognition Contact: Vito Cappellini Dipartimento di Ingegneria Elettronica Via di S. Marta 3, 50139 Firenze, Italy/ Tel: +39-55-4796279 Faz: +39-55-461701. E-mail: CAPPELLINI@INGF11.ING.UNIFLIT
Edinburgh, Scotland 7-9 October 1996 A EUREL International Conference THE DETECTION OF ABANDONED LANDMINES: A Human Imperative Seeking a Technical Solution IEE Conference Office, Savoy Place, London WC2R 0BL Tel: +44 (0) 171 344 5472. Fax: +44 (0) 171 240 8830 E-mail: conference @iee.org.uk	University of Nottingham, UK 25-27 March 1997 Sixth International Conference on Developments in Power System Protection Contact : DPSP '97, IEE Conference Office, Savoy Place, London WC2R 0BL. Fax: +44 171 240 8830. E-mail: conference@iee.org.uk (quote DPSP in your message)
Lisbon, Portugal 17-19 June 1996 BASYS '96 - Architectures & Design Methods for Balanced Automation Systems Prof. Luis M. Camarinha-Matos, New University of Lisbon Quinta da Torre, 2825 Monte Caparica - Portugal Tel: +351 1 3500224. Fax: +351 1 294 1253 HTTP://www.pt/CONFERENCES/BASYS96.html	Poitiers, France 31st August, 1st September EUROGRAPHICS - Call for Papers, EGCAS '96 - 7th International Workshop on Computer Animation and Simulation Deadline: 29 April 1996 Contact: Dr. Ronan BOULIC, DI-LIG, EPFL, CH-1015 Lausanne, Switzerland Tel: +41 21.693.52.46, Fax: +41.21.693.53.28. E-mail: boulic@lig.di.epfl.ch URL: http://ligwww.epfl.ch~oulic/egcas96/egcas96.html
Moscow, Russia 23-27 Sept. 1996 The 2nd International Conference on Satellite Communications Dr. Henrich Lantsberg, Russian Academy of Sciences, Mokhowaya Str. 11, 103907, Moscow, Russia. Tel: 7(095)203-4985. Fax: 7(095)_203-8414 E-mail: hlants@ire.re.ac.ru. Internet: h.lantsberg@iee.org	Kaiserslautern, Germany 9-11 October 1996 Eurobot '96 1st Euromicro Workshop on Advanced Mobile Robots Contact: Riccardo Cassinis Univ. Of Brescia, Dept of Electronics for Automation, Via Branze 38 I-25123 Brescia, Italy Tel: +39 30 3715 453. Fax: +39 30 380014 E-mail: cassinis@bsing.ing.unibs.it