IEEE Region 8 News

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Europe, Middle East and Africa



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Mr. Robert C. Winton

The Lary K. Wilson Award

''Continuing and Exemplary Efforts in Providing A Transnational Dimension to Numerous IEEE Activities and for Unique Contributions to the SC'90 Program''

Mr. Winton was responsible for creating the SC '90 Question and Answer session with Mr. Bob Alden, Vice President Regional Activities Board, and Mr. Troy Nagle, Vice President of the Technical Activities Board. The title of the session was "Unifying approaches to IEEE,



Technical and Administrative Dimensions", a first class example of the use of words to obscure meaning.

Mr. Winton was for many years

the Region 8 Committee Secretary and has been prominent in Regional affairs since the beginning of Regional Time. In the course of his studies has specialised ("majored?") as historian, lexicographer and factorum extraordinary.

His SC '90 included involvement in: IEEE "Interfaces" with other Organisations, a "Networking" Lunch on Non-US national Society "Interfaces", the "Issues" Committee, which itself was aided by three "Facilitator" teams, whose information came from thirty "Breakout" Sessions. He was clearly selected for his outstanding grasp of Institutional semantics.

Bob Winton's tireless work for the Region and the Institute makes it a pleasure for all his colleagues, on many Committees, to congratulate him on this very well merited award.

Mr. Karsten E. Drangeid

Elected IEEE Secretary

A former Director of the IBM-Zurich Research Laboratory in Switzerland, Karsten Drangeid was from 1983-84 Director of Region 8. He was elected a Fellow in 1973 for "Contributions to the Development of Semiconductor Devices". He is a member of the Association for Computing Machinery, the Swiss Electrotechnical Society, the Swiss Physical Society and the Zurich Physical Society. He was elected a member of the Norwegian Academy of Technical Sciences in 1989.

New Year Honours 1992

His predecessor as Secretary, was an advocate of the Institute's international role, striving to improve the service given to Regions 7-10 by the Institute's staff. Karsten Drangeid brings a very considerable experience to his new post and we wish him every success in advancing the influence of those Regions of the Institute which are so clearly displaying a greater interest in the affairs of the IEEE.

Prof. Fernando Aldana

Vice-president Technical Activities

Professor Aldana is Dean of the School of Engineering for Industry in the Madrid Polytechnic. He seeks to maintain the standard of conferences and publications, to encourage cooperation between IEEE staff and volunteers, and increase the contribution of the Societies to the planning and direction of the Institute's technical activities

Prof. Charles Turner

Region 8 Director-elect

As Director-elect, and Director in 1993, Dr. Turner brings both experience and culture from both sides of the Atlantic: a first degree from London Uniersity, followed by a Ph.D. from Stanford University in the United States; and teaching applied physics at Brunel University London, then electrical engineering at Berkley California.

He has served on the UKRI Section

Committee as Secretary, Chairman and Student Counsellor. His interests in Region 8 are to foster closer collaboration with national socie-



ties, and to take advantage of opportunities offered by recent changes in Eastern Europe; which would benefit both those nations rejoining Europe and those who are well established in the Region.

He supports plans to increase Chapter activity, and will encourage more small-scale meetings and tutorial workshops in which individual members can play a greater part. As the Region's principal representative on IEEE major Boards and Committees, he will endeavour to ensure that services for Regional members will be accorded a high priority.

He brings too, one other asset to this international Society of ours, and that is his wife, a charming lady whom he has managed to prise away from her native United States. Welcome to the Regional Committee, to all the Sections, and to two years hard labour.

WHY CONFER?

(Region 8 News November 1991)

Letters to the Editor.

Sir, A Technical Conference is not a verbal substitute to a scientific journal. It is a marketplace for the exchange of information and the forming of professional contacts. The aim of the technical conference is to bring together peers of similar interest - to learn about recent developments, but also to socialize and transfer knowledge among scientific groups. Every Conference should have a specific character. Some might be in-depth symposia on a very closely defined detail of a certain technology. Others are broad and more general. The former are aimed at senior specialists and the latter might suit better to young engineers who come to present their first achievement. There is no cliche which might portray Conferences in general.

By being involved in more than 250 major Conferences, symposia and workshops each year, IEEE contributes tremendously to the spreading of information and to democracy in knowledge. IEEE Region 8 provides its share with its Regional Conferences - EUROCON, MELECON, AFRICON and CompEuro, and also with the multitude of National Conventions, Symposia and Seminars in which thousands of Engineers from developed and developing countries participate.

It is more than likely that no Nobel Prize will be given to a paper presented at MELECON '91, but the assiduity of delegates to listen to the invited lectures and the seriousness of the discussions after each technical presentation, proved more than 1000 Editorial that here young engineers make an additional step towards professional maturity.

Moneymaking has never been a main consideration in organizing an IEEE Conference. The main aim of IEEE Region 8 in financing Conferences is to break-even on the overall expenses, but never has a Conference been postponed due to fear of insufficient profit. Should the Conference presentations be well prepared? Should all the slides be well drawn? Certainly YES! But this is not always possible; the presenters of scientific papers are not always the best orators, the appeal of their lectures is not in the skillfulness of their language, but in the interest of their content to other participants. A Conference is not a school - it is a gathering of minds in search of intellectual stimulus. Many of IEEE Sections meetings are held in local languages, but International gatherings have to be conducted in a language familiar to most of the participants, and English is actually the most spoken language in the western scientific community.

Conference Proceedings are not accepted as references in journal articles because they are not refereed in advance, but hundreds of Universities institutes subscribe to the IEEE Open Order Plan, whereby they receive all the Proceedings published on IEEE Conferences for the benefit of their students and researchers. Actually, the printing of Proceedings is usually one of the main expense items of Conferences and not a source of income. The dilemma between large Conferences versus small workshops is a well known one. Both have their advantages: the Conferences enable participants to meet many of their peers and provide them with a greater choice of subjects. Workshops provide a forum for more intimate discussions on a very defined subject. Both are necessary and one has to choose the most adequate meeting type.

There is much to write about Conferences and technical meetings. But it is much more important to participate, both as presenters or as listeners, in order to widen our personal and our common knowledge.

Dr. Jacob Baal-Schem (Region 8 Conference Coordinator)

- Sir, As you know, I consider Technical Conferences to be one of the major assets of IEEE and Region 8. May I recommend:
- 1. The Region 8 Director should be asked to put in place immediately the review and release of future Region 8 News issues before they go to the printer.
- 2. This problem should be placed formally by the Conference Coordinator on the agenda of the next Committee Meeting.
- 3. A response article should be written by the Region 8 Conference Coordinator, and possibly in addition by our Regional Director, in the next issue of Region 8 News.

I am sure that many of our members are puzzled by this conference editorial and I hope that many of them will object in writing to the views expressed in this controvertial article.

Prof.Dr.-Ing. Walter E. Proebster(Membership Development)

Sir, I was at first disturbed when I read the November Region 8 News editorial; however, on thinking it over, I believe that I, and perhaps others, might have taken too narrow a view, since the editorial is about IEEE conferences, and is not directed exclusively at Region 8 conferences. There may be those who would consider the article as a personal attack; such a conclusion would in my opinion be mistaken and I doubt if the article would stop anyone going to a conference which he would otherwise have attended. On the other hand it will benefit members, because it should produce replies that could enable readers to appreciate both sides of a picture, which might otherwise not have been revealed.

A true editor must not be confined to expressing only those views which have been decided elsewhere, he must, at least in editorials, be allowed to express his own views, or those which he believes should be brought to the attention of the membership in general. It would not be in the members' best interests to allow anyone to decide what the Editor can and cannot do.

No doubt there are those who disagree with much of what I have written; I should therefore add that these views are entirely my own.

Mr. Robert C. Winton (Forward Planning Coordinator)

From the Editor.

In any virile organisation it is from time to time worth while asking asking whether all is well with its operations; should the "status quo" be preserved, are changes desirable and if so what are they? So important are conferences to the Institute and its reputation, that strong prompting may be the only way of provoking discussion. The article makes no criticism of any individual or organisation, the only criticism is of the system which we have allowed to become established without questioning its relevance to the needs of modern engineers. Many of the problems mentioned are well-known to experienced conference organisers, but not discussed in public. As an engineer one is entitled to ask about units of measurement and whether money or number of attendees is a satisfactory measure of success. To improve the quality of our "product" should we not be solving the problem of "no shows", and where is the Region's "Guide to Presenting a Conference Paper"; and is "big" always beautiful?

Everyone holds conferences; would it not be wonderful if the IEEE were famous for conferences of "scientific quality", events which one could not afford to miss. Money is available for Region 8 "projects" and a well argued application for funds which might be used to make a contribution to the solution of some of these problems is unlikely to be refused.

U.K.R.I.

Region 8 Student Paper Contest

By Mr. Derek Dring

On 4th December 1991 at King's College London, the UKRI Section held a preliminary event in order to select the best papers for submission to the Contest. All costs for publicity, administration and travelling are met by the sponsors - Filtronic Components Ltd., Quiseley, Near Leeds - and as in the past two years, their Chairman and Chief Executive (Professor David Rhodes) was one of the adjudicators.



Left-Right: Derek Dring (Student Counsellor); Prof. David Rhodes (Chairman Filtronic Components Ltd.); Prof. Tony Davies (UKRI Chairman); Paul Hatcher (2nd Prize); Rakesh Taori (3rd Prize); Hassan Shafeeu (1st Prize); Dr. Jim Gilbert (Assistant Student Counsellor); Roland Saam (Immediate Past Chairman UKRI).

It is through sponsorship of this nature that the IEEE Student functions are financed. The papers of the first and second prize winners will be forwarded to the Region 8 Contest.

MTT/ED/AP Joint Chapter

By Mr. Terry H. Oxley

Technical Programme. The Chapter AdCom is currently finalising its 1992 technical programme. The plans include a schedule of evening lectures to be held in England and Ireland; one-day technical meetings and the co-sponsorship of specific events. The programme will be publicised regularly in Region 8 News. Further details are available from the Chapter Chairman or any member of the Chapter Committee.

The first evening meeting is planned for 25th March 1992: King's College, Strand, London. An "invited talk" on Electronics Technology in the Defence Research Agency" will be presented by David J. Colliver, Director Microelectronics Unity, Defence Research Agency, R.S.R.E. Malvern. (Contact: Dr.J.K.A. Everard, Dept of Electronic & Electrical Engineering, King's College London, Strand WC2R 2LS. Tel: +44 71-873-2744. Fax: +44 71-836-4781

The Annual Leeds University Summer School on "Microwave Subsystem Design" organised by the University in co-operation with the MTT/ED/AP Chapter will be held on 21st-25th September. An associated Chapter sponsored evening talk on "High Temperature Superconductivity" by Dr. Andrew Phillips of GEC Hirst Research Centre, will be held on 23rd September. (Contact: Dr. J.R.Richardson, Dept of Electronic & Electrical Engineering, the University of Leeds, Leeds LS2 9JT. Tel: +44 532 332002. Fax: +44 532 332032)

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

Sweden Section

By Dr. Anders Derneryd

FELLOW

Prof. Torsten Söderström from Uppsala University has been elected to the IEEE Fellow Grade as of January 1st 1992 for "Fundamental Contributions, to System Identification". His nomination was evaluated by the Control System Society. Many congratulations to Torsten!

TECHNICAL ACTIVITIES

MTT/AP Chapter: A conference, GIGAHERTZ '92, on Microwave Techniques and High Speed Electronics' will be held in Linkoping on March 25-26th. Conference Secretary is Birgitta Hagelin; Tel: 013-11-83-56. Fax: 013-13-16-65.

PE Chapter: A Spring meeting is planned for March 5th at Chalmers University of Technology In Goteborg. Information from Antonios Vlastos, Tel:031-72 1616.

EMC Chapter: The next meeting will be held in Karlskoga on April 9th. Contact: Peter Landgren. Tel: 0586-814 28.

VT/COM Chapter: A seminar on IC's for High Speed Logics is scheduled: Contact Henry Schefte. Tel: 08-719 21 59.

DISTINGUISHED LECTURER: One member of the Sweden Section has been appointed as distinguished lecturer by AP-S for 1992-1993: Prof. Per-Simon Kildal at Chalmers University of Technology, Goteborg. Tel: +46 31 72 17 18. Fax: +46 31 72 15 61. Subjects: Reflector Antennas, Artificially Soft and Hard Surfaces in Electromagnetics and their Applications. We congratulate Per-Simon and wish him success on his tours. Any AP Chapter interested in a talk should contact the lecturer direct, to agree dates and arrangements.

Salary Survey: The Section Chairman has a copy of the "1991 U.S Salary and Fringe Benefits Survey. This report may be borrowed by Section members by contacting him.

Video Tapes: The following video tapes in the IEEE Organisational Series are available for Section members by contacting the Section Chairman. i) Your Society and TAB ii) Society Organisation and Government. iii) Society Finances. Section Chairman: Dr. P:iotr Starski, Chalmers University of Technology, Division of Network Theory, S-412 96 Goteborg, Sweden. Tel: 031-72-17-34. E-mail: piotr@nt.chalmers.so (UUCP)

1992 - A Vintage Year for Conferences

By Dr. J. Baal-Schem

Region 8 Conference Coordinator

In the Region, more than forty IEEE conferences and symposia will be held, from Oslo to Swaziland; I shall mention here only some of them.

Zurich Seminar on Digital Communications: 16-19 March: Switzerland

"Intelligent Networks and their Applications". There will be two tutorials on Object -Oriented Design and Modelling, and some thirty papers covering all aspects of the main theme. The social programme will include a cocktail party and a Banquet. Contact: Mrs. A. Schicker, PO Box CH-8340 Hinwil, Switzerland. Fax: +41-1-938-1557.

EUROCON '92: 18-21 May: Zurich Switzerland.

Organised by the Switzerland Section and the Swiss Electrotechnical Association in cooperation with EUREL. The Conference is specifically aimed at managers and professionals in Research, Engineering, Manufacturing and Marketing. There will be two plenary sessions: in the first, leaders from the EEC Commission and Industry Research Managers will discuss the current state of important R & D programmes: RACE, JESSI, IT, Compact Disc, Optoelectronics. In the second, key personnel in European Industry will present their views on future developments and the role of Europe in a world market. Guests from Japan and the U.S. will deal with competition and cooperation.

Six "Mini-conferences", each a mixture of Tutorial Lectures, Contributed Papers and Panel Discussions, will enable attendees to choose their own subjects: Computer Aided Engineering - Prof. A. Fuggetta; Computer and Telecommunications Networks - Prof. B. Plattner; Social and Environmetal Issues - Ms. A. von Segesser; Continuing Education - Prof S. Seitzer; Power Generation and Distribution - Prof. H. Glavitsch; Marketing in a changing world - Prof. S. Samiee.

In the exhibition, Companies will present their business strategies, and Universities will present research projects relevant to industry. This novel Conference has aroused the interest both of the Electrical and Electronics Industry and of Academia. EUREL will be well represented. Social activities will include, a Workshop on a Boat, and a Banquet at which there will be a distinguished after-dinner speaker. This is a conference not to be missed. Contact: Eurocon '92, TIK, ETZ G83, ETH-Zentrum, CH8092, Zurich Switzerland. Fax: +41-1-251-2504.

PESC '92: 23-26 June - Madrid, Spain

The 1992 IEEE Power Electronics Specialist Conference will be held at the Universita Politechnica de Madrid. Contact: Dr. F. Aldana, University Politechnica de Madrid, Ramiro de Maeztu Sn, E-28040 Madrid, Spain.

BILCON '92: 27-28 July: Ankara, Turkey

The 1992 Bilkent Conference on Lightwave Technology and Communications will be held at the Bilkent University, Ankara. Topics will include Optical Phenomena, High Speed Networks, Photonic Switching, Integrated Optics, Sensors and Devices. There will be invited

speakers from all over the world. Contact: BILCON '92, Bilkent University, Bilkent 06533, Ankara, Turkey.Fax: +90-4-2664127.

VNIS '92: 2-4 September: Oslo, Norway.

The Vehicle Navigation Systems Conference will include Systems Analysis and Evaluation, Traffic Monitoring and Control, Location and Navigation, Information for the Driver, and Management of Traffic. Special sessions focusing on International projects, demonstrations and systems are envisaged. Technical visits are also planned. Contact: Ms Lise Marks, PO Box 2312 Solli, 0201 Oslo, Norway. Fax: +47 2-836-323.

MICROELECTRONICS '92: 21-23 September: Warsaw, Poland

Design, Technology, Applications and New Concepts in Microelectronics. A limited number of papers submitted by recognised experts will provide a review of current topics. Contact: Mr. J. Grzybowski, IRSEP, Zurawia 26/10, 00-515 Warsawa, Poland. Fax: +48-21-70-59

AFRICON '92: 22-24 September: Ezulwini Valley, Swaziland

An infrastructure for developing peoples. The themes are Services in Africa for: Electric Energy technology, Communications Systems, the Education and Training of Engineers and Technicians. There will be Tutorials, and Oral & Poster Presentations. Space will be available for exhibitions. The venue of AFRICON '92 is the Convention Centre at the Royal Swazi Sun Hotel in Swaziland.It is hoped that AFRICON '92 will provide opportunities for informal meetings between African Electrical and Electronics Engineers and their peers from other parts of the world and enable an exchange of information. Contact: AFRICON '92, FRD, PO Box 2600, Pretoria, 001 South Africa. Fax: +27 12 841 3791.

Engineering in Medicine & Biology: 29 October 1st November: Paris, France.

The 14th Annual International Conference of the IEEE Engineering in Medicine and Biological Society will be held at the Palais de Congres in Paris. It will include an Exhibition. Contact: Dr. S.N. Laxminarayan, Academic Computing Centre, I.S.T., University of Medicine & Dentistry, 185 South Orange Avenue, Newark, NJ. 07103, U.S.A.

GRANTS AVAILABLE FOR PARTICIPATION IN CONFERENCES

The IEEE Region 8 Committee has decided to provide financial support to assist members to attend Regional Conferences. For EUROCON '92 (18-21 May) grants are available for members with accepted papers for presentation. For AFRICON '92 (22-24 September) grants are available for members from African countries with priority to participants with accepted papers. Requests (including IEEE membership number) should be addressed to:

Dr. J. Baal-Schem, Region 8 Conference Coordinator, P.O.B.1205, Holon 58112, Israel.

Requests should be endorsed by the Participant's employer or University, stating that he will participate in the Conference. Payments of approved grants will be provided at Conference site.

Romania

By Professor Andrei P. Silard

Last June the IEEE Board of Directors approved the Bylaws of the Romania Section, which then fully entered the realm of IEEE legality. The Bylaws, composed by a handful of volunteers, of whom I was one, and approved during the December 1990 Section General Meeting, were devised with both the burdens of history and the future in mind. They take into account the rapid socio-political dynamics in this part of the world and incorporate some "firsts" not generally found in Section regulations: elections for the Executive Committee will be held annually, no one may hold the offices of either Chairman or Vice-chairman continuously for two consecutive one-year terms, and no Secretary or Treasurer may hold the same office for more than two consecutive terms. These provisions concerning the Section officers were introduced in order to ensure both continuity and democratic renewal within the Executive Committee.

As I am preparing to leave the office of the first elected Chairman of the Section, I look back with pride and serenity to the endeavour I started many years ago with Acad.. Prof. Mihai Draganescu and my colleague Prof. Marcel Profirescu. This long and arduous path finally led to the establishment of the Romanian Section-in-Development. This first IEEE nucleus here, strongly supported by Mr. B.W.Osborne, then the Regional Director, has survived many hardships and was instrumental in forming our Section in the summer of 1990.

It is impossible to name all those who were helpful to our Section, particularly during the past year or so. However, without the financial support of the CEPES/UNESCO office in Bucharest there would have been no Section in August 1990. The support of the Romanian Educational and R & D authorities was essential in our first year of existence, as was that provided by the IEEE Headquarters, Field Services and "IEEE Spectrum".

After one year of existence the membership of our Section has tripled to over 210. All activities typical of a Section have been either started or continued - Chapter formation, Newsletter editing, Conferences, IEEE Library etc. Good working relationships have been established with the Regional Sections and IEEE bodies, the IEEE Press and Spectrum included. The aims of the Institute have been disseminated here at local levels, on TV and in the mass-circulation newspapers. These first pillars have the built-in ability to fuel the dynamics of our Section in the years to come.

As the economic prospects in Eastern and Central Europe remain bleak for the next few years, the IEEE Sections therein will encounter increasing difficulties in formation or growth - see, for example, Region 8 News for November 1991. My country is no exception to mounting economic problems and hardships; however, all those who were permeated by the spirit of the Institute will prove the dark prophecies regarding the fate of IEEE in Romania to be wrong. People here will be innovative in finding ways to pay their dues and to stick to the IEEE activities. The first seeds planted here during the past two years will endure, proving again that if there is a will there will always be a way. It is the

duty of the IEEE and the incoming Section Executive Committee to take advantage of the potentialities in Romania and to serve their members here as they truly deserve.

Professor Andrei P. Silard, (Outgoing Chairman), Aleea Alexandru 19, Bucharest, 71273 Romania. Tel: +400 331184.

For Students

By Gözde Bozdag

It will be a little bit late to say "Happy New Year" now, but since this is the first issue of the new year I do want to wish all of you a happy and successful New Year. When a new year comes, I always remember the famous saying of Fred Allen "You only live once, but if you do it right, once is enough"; as students at the beginning of our careers, we have to work hard to do it right. We must not forget that each and every one of us has leadership potential and that our knowledge, training and commitment, influence who we are



and how we perform. Each of us is a unique person who makes a particular contribution with our lives. Don't forget to take advantage of being an IEEE member while creating that contribution.

By now I hope all of the Student Branches will have planned their activities for the new year - good luck in performing them. Visiting other branches and organising study tours are the most common activities in our Region. In February the

students of METU SB Turkey will make a 15 day tour of various countries in Europe, visiting companies such as Philips, Siemens etc. The Eindhoven and Munich Student Branches will organise an excursion; they plan to make both cultural and technical visits. The Chairman of the Munich Branch is saying that "This might be the impulse for our members to take an increased part in IEEE affairs"; you can try the same thing! The Eindhoven SB organises an lectureday somewhere in The Netherlands about four times a year; the Trieste SB plans to organise a "Join the IEEE campaign"; and the Bilkent SB will organise a Trans National Meeting on 1st-16th August 1992. This time the schedule of the meeting was posted to all branches as early as possible, so I hope you will have time to make your plans and arrange for the money to attend this meeting. The contact address for the meeting is:

Degerhan Usluel,

IEEE Student Branch Bilkent,

Bilkent University Electrical Engineering Dept.,

06533 Ankara Turkiye.

E-mail: ieeesb@trbilun.bitnet.

One last remark: As mentioned in the "Student Activities Committee Fall Meeting", only a few branches send their annual plans to Headquarters. This annual plan must be sent before November 1st. Upon receipt, each branch gets \$50 (if it has more than 50 members) and \$25 (if it has 49 or less members). So, if you want this money, don't forget to send in your annual report on time. (Sorry for the incorrect numbers in the November issue).

Student Representative: Gozde Bozdag, Dept of Electrical Engineering, Bilkent University, 06533 Ankara, Turkiye. E-mail: bozdagi@trbilun.bitnet

TURKEY

Computer Society Chapter

By Professor Ugur Halici

I am pleased to bring to your notice the formation of the Turkey Computer Society Chapter, CS/TC, of which in mid 1991 I was the Chapter organiser. Since then the following CS/TC activities have taken place: a discussion in which Prof. Hussein Badr of SUNY in Stonybrook, USA was the speaker, his title was "A Comparison of Computer Science Curricula in Turkey and USA"; two seminars entitled "Introduction to Parallel Processing" and "Reconfigurable Mesh Parallel Algorithms" by Prof. Fikret Ercal of the University of Missouri Rolla, USA and Prof. Sartaj Sahni of the University of Florida, USA, respectively.

Preparations have been started for symposia, to be held in 1992. ISCIS VII, an International Symposium on Computer and Information Sciences, is scheduled for 2nd-4th November 1992; this is the most recent in a series which has brought together computer scientists and engineers from some twenty countries. The organisation of ISCIS, the most important conference of the country in this field, is undertaken by a different university each year. This year, the symposium, which has since 1990 enjoyed an IEEE contribution, will be organised by EHEI, Ecole des Hautes en Informatique, Universite Rene Descartes, Paris France, and METU, Middle East Technical University, Ankara, Turkey. ISCIS VII will be

held in Antalya, a beautiful Mediterranean resort in a region rich in natural and archeological interest. Paper submission deadline for ISCIS is 1st May 1992.

We are also a part of the organisation of the "Artificial Intelligence and Neural Networks Symposium" The object of this symposium is to establish a forum which could help scientists in this field to exchange information and discuss topics of common inter-



est. The symposium, the organisation of which is being undertaken by IEEE CS/TC, Bilkent University, METU, Bosphorus University, and TUBITAK, the Scientific Research Council of Turkey, will take place in Ankara on 25-26th June 1992.

If you are interested in these symposia or in IEEE CS TC you are very welcome to contact us for further information. I hope to stay in touch throughout 1992.

Chapter Chairman: Professor Ugur Halici, Dept of Electrical Engineering, METU, 06531, Ankara Turkey. Fax: (90) 4-286 8626 or (90) 4 125 83 32. Email: halici@trmetua.bitnet

Western Saudi Arabia

By Dr. Mohamed A.I.Turki

Programme

Symposium on Medium Voltage SF6 Switchgear;
 Apple Machintosh;
 Training Course in Engineering Management and Technical Report Writing;
 Two Seminars for Student Members (K.A.U. Student Branch) on:
 Knowledge based systems amd,
 Artificial Intelligence

Section Chair: Dr. Mohamed A.I. Turki, IEEE Western Saudi Arabia Section, PO Box 9897, Jeddah, 21423, Saudi Arabia

Forward Planning

By Mr. Bob Winton

Region 8 Forward Planning Co-ordinator

If you can look into the seeds of time And say which grain will grow and which not... Hamlet, Shakespear

We are witnessing an avalanche of history in east Europe, and in this lies one seed which I expect to grow and eventually develop into a substantial increase in IEEE membership and activities in the Baltic States, in the Commonwealth of Independent States (the former USSR), and in our established east European Sections. In addition we should expect that the Yugoslav Section will be replaced by Sections in a number of separate States. Thus we may well be heading towards a Region 8 which will extend from the west of Europe to the East of Russia, some 15,000 kms (about 10,000 miles), and consist of perhaps thirty five or more Sections. The size of the area, the expense of Regional Committee meetings and of Committee members, and the overload which will result for Regional volunteers, from the Director downwards, will make such a Region impossible to organise satisfactorily.

Possible solutions? To form the east of Region 8 into a new Region, or to transfer part of Region 8 to Region 10, with which it has a common border to the south. So quickly and with such unexpected results does history continue to march across east Europe that the Institute's future may not be as I imagine it now (December 1991). But forward planning must include contingency planning, and these are some of the contingencies I have in my mind, where my forward thinking starts, and which I shall put to the Forward Planning Committee, where the Region's forward planning starts. The basis of forward planning is to anticipate how events may develop, and to plan accordingly.

To plan for events after they have happened is no more than damage limitation. At this point I must make clear that the Region 8 representatives responsible for such activities as continuing education, membership and students, create their own forward plans; conferences in particular, must be planned two or more years ahead. My activities cover matters which do not fall within the responsibilities of those representatives, who carry out the forward planning of their activities by themselves.

The FPC has already made plans to help those who have problems in paying dues because their salary is too low or because their local currency is not convertible into hard currency. We have already introduced a more businesslike budgeting procedure for each following year, which I shall ask the FPC to extend so that those responsible for various activities will know, one year or more ahead, what funds will be available to them and so be able to make more realistic forward plans than they can at present.

Last May the FPC offered financial support for approved short term Section projects which a Section was unable to finance. The results have been disappointing; only two projects have resulted. Apart from this it gives me great satisfaction and pleasure to be Forward Planning Co-ordinator and FPC Chairman. I welcome the opportunities for making progress with plans I already have in mind, and I shall enjoy considering the variety of future problems.

Mr. R.C.Winton, 224 Creighton Avenue, East Finchley, London, England, N2 9BD. Fax. & Tel: +44 883 2633.



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

Practical Aspects of Analog IC Design

Lausanne - Switzerland, June 29 - July 10, 1992

The purpose of this course is to provide useful information for engineers involved in the design of analog or mixed analog-digital integrated circuits and systems. It will discuss the practical problems encountered in the design and production of analog ICs.

PART I: General Circuit Design Issues June 29 - July 3, 1992

New Analog IC Technologies (BiCMOS, SOI, GaAs)
Packaging Techniques for Mixed A/D Components
Analog Semicustom Design Using Transistor Arrays
Analog Layout Techniques, CAD for Analog Layout
Layout of Analog and Mixed A/D Systems
Noise Coupling in Analog IC's, Pitfalls in Analog IC Design
Testing Analog IC's, High-Frequency CMOS Design
Design Examples of CMOS Mixed Circuits
Practical Considerations in SC Circuit Design Practical Considerations in SC Circuit Design Micropower Device Modeling and Examples of Applications
Noise Estimation in SC Circuits: a Practical Design Verification
Practical Issues in the Modeling of CMOS Devices BiCMOS Analog Circuit Design Techniques

PART II: Analog Interface Design Problems July 6-10, 1992

On-Chip Continuous-Time Filter Design Techniques
Building Blocks for CMOS Analog Interface Systems
Building Blocks for BJT Analog Interface Systems
Grounding and Bus Routing Techniques for Analog IC's
Design of On-Chip Voltage References
The Design and Testing of Oversampled ADC's
The Design and Testing of Oversampling DAC's
The Design and Testing of Ultrafast Data Converters
Interface Electronics for Fiber Ontic Computer Links Interface Electronics for Fiber Optic Computer Links Interfaces for Optical Communications CDS Techniques in SC Circuits Sensor Design and Fabrication for Cointegration with Interface Circuitry Interface Design for Smart Sensors

LECTURERS: C.Azeredo Leme (ETHZ, CH); H.Baltes (ETHZ, CH); P.Brokaw (Analog Devices, USA); N.C.Bui (Ascom, CH); H.Casier (MIETEC, B); J.Corcoran (HP, U.S.A.); M.Declercq (EPFL, CH); C.Enz (SSS, CH); M.Ferries (GEC-Marconi, GB); A.Ganesan (Crystal Sem., USA); T.Hornak (HP, USA); L.Larson (Hughes, USA); F.Maloberti (Unv.of Pavia, I); R.van de Plassche (PHILIPS, NL); F.Rahali (Ascom, CH); M.Rebeschini (Consultant, USA); W.Sansen (UKL, B); T.Schmerbeck (IBM, USA); G.C.Temes (OSU, USA); J.Thomson (IBM, USA); Y.Tsividis (NTUA, GR); E.Vittoz (CSEM, CH).

Course directors: M.Declercq, G.C.Temes and V.Valencic Course fee: PART I or II: 2'700.- SFr.; PART I & II: 4'400.- SFr.

Deadline for registration: May 30, 199

Mailing address: 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

CMOS & BiCMOS VLSI Design '92

ANALOG & DIGITAL

Lausanne, Switzerland August 17 - September 4, 1992

organized by

Electronics Laboratory of the Swiss Federal Institute of Technology, Lausanne (EPFL)

Three one-week modules are proposed to the participants with the possibility of choosing any combination of the 3 modules. If PART II is chosen, it is strongly recommended to follow PART I as well. In addition to the lectures, a hands-on training (PART I) will be provided to the participants in a modern Computer Aided Instruction laboratory, using MENTOR/GDT environment. PART III will deliberately insist on the deep understanding and adequate modeling of active components and of their basic combinations, which are considered to be prerequisites for sound analog designs. Local specialties such as low current operation and high-precision design will be emphasized.

> INTRODUCTION TO CMOS & BICMOS INTEGRATED CIRCUIT DESIGN PART I:

(1st week: August 17 - 21)

ADVANCED VLSI DESIGN AND ARCHITECTURE PART II:

(2nd week: August 24 - 28)

ADVANCED ANALOG DESIGN PART III:

(3rd week: August 31 - September 4)

Deadline for registration: June 15th
Registration fees in Swiss Francs: 1 week; 2'500.-, 2 weeks; 3'500.-, 3 weeks; 4'500.-

INSTRUCTORS

M.ANNARATONE, H.CASIER, R.CASTELLO, G.DECLERCK, M.DECLERCQ, H.DEMAN, P.DUCHENE, C.ENZ, K.ESHRAGHIAN, B.GILBERT, H.HARINGER, B.HOCHET, H.KAESLIN, S.M.KANG, F.KRUMMENACHER, D.MLYNEK, A.OSSEIRAN, H.-J.PFLEIDERER, F.RAHALI, W.SANSEN, G.TEMES, C.TRULLEMANS, A.VACHOUX & E.VITTOZ

Course directors: MICHEL DECLERCQ, DANIEL MLYNEK, ERIC VITTOZ

Course manager and mailing address: VLADO VALENCIC, EPFL-LEG, EL-ECUBLENS, 1015 LAUSANNE, SWITZERLAND

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.

REGION 8 AWARDS

By E. Folke Bolinder

Honorary Member

Mark Krivocheev (Non-Member): Chief of the Television Department of the State Radio Research Institute, Moscow, Russia. For: "Technical Contributions to Television and Leadership in Developing International Standardisation"

1992 Lamme Medal

Dietrich Lambrecht (Fellow): Retired - formerly General Manager, Siemens A.G., UB/KWU Muelheim/Ruhr, Germany. For: "Outstanding Contributions to the Advancement of Turbine-generator Engineering and Technology, Particularly Superconducting Rotor Windings"

1992 Alexander Graham Bell Medal

James L. Massey (Fellow): Professor of Digital Technology, Swiss Federal Technical University, Zurich, Switzerland. For: "Contributions to the Theory of Practical Implementation of Forward-error-correcting Codes, Multi-user Communications, and Cryptographic Systems; and for Excellence in Engineering Education"

1992 Corporate Recognitions

"Ericsson Radio Systems": Kista, Sweden. For: Significant Contributions to the Development and Implementation of Analogue and Digital Cellular Radio Technology".

IEEE Award in International C

"Philips Electronics": Eindhoven, The Netherlands. For: Pioneering Research in Electronics and the Development of much of the Basic Technology Leading to the Creation of the Optical Recording Industry"

IEEE Award in International Communications:

Francesco Carassa (Life Fellow). For: "Original Contributions in the Field of Microwave Radio Relay and Satellite Communications".

REGION 8 FELLOWS

BENELUX

Jan Biemond: Digital Image Modelling, Restoration and blur Identification

Leonard J.M. Esser: The Technology and Applications of Charge-coupled Devices

Edward C. Van der Meulen: Multiway Channels in Information Theory

.Joseph P. Vandewalle: The Mathematics of Nonlinear Circuits and Systems

DENMARK

.J. Bach Andersen: Antenna Theory with Significant Applications to Cancer Therapy and Communications. Leif Bjorno: Utrasound Technology

FRANCE.

Alain Lacoste: High-voltage Direct-current Cable Transmission Systems

GERMANY.

Juergen E. Ackerman: The Design of Discrete and Continuous Systems; and the Direction of a Research Institute. Wolfgang K. Gilol: Engineering and technical leadership in the development of Computer Systems

Joachim Hagenauer: The Application of Convolutional Codes to Mobile Radio; and Satellite Communications

Hans L. Hartnagel: Microwave GaAs Device Design

Optimisation and Applications.

HUNGARY

Imre Csiszar: The Shannon Theory of Point-to-point and Multiuser Communications; Information Theoretic Disciplines of Processing

Arpad I. Csurgay: Electromagnetic Theory, the Realisability Theory of Distributed Networks; and Scientific Leadership.

ITALY (Central & South)

Paolo Corona: Continuous-mode Stirred Chambers, and their Application in Electromagnetic Compatibility Evaluations.

ITALY (North)

Sergio D. Cova: Instrumentation of Nuclear Electronics, in particular the Conception and Demonstration of Silicon Single-photon Detectors.

SOUTH AFRICA

Ronald G. Harley: The Generalised Theory and Subsynchronous Resonances in Electric Machines & Drives

SWEDEN

Torsten Soderstrom: Contributions to System Identification.

SWITZERLAND

Athanasios C. Antoulas: The Theory of Linear System Realisation

Werner Bux: Design & Analysis of Data-link & Mediumaccess Protocols & Standardisation of Data-link Protocols.

UNITED KINGDOM & REPUBLIC OF IRELAND

Dennis J. Allan: Development of Power Transformers

G.S. Peter Castle: Practical Applicaation of Electrostatic Forces in Industry and Agriculture

Peter Cochrane: Leadership in and contributions to, Digital Transmission Systems and Networks.

Joseph Helszajn: The Theory and Practice of Ferrite Engineering

David J.N. Limebeer: Multivariable Systems Theory

Terence H. Oxley: Technical Leadership in the Development of Microwave and Millimeter-wave Components and Subsystems.

YUGOSLAVIA

Alojz R. Kralj:Development and Clinical Application of Electrical Stimulation to Individuals Paralysed by Stroke or Spinal Cord Injury

Lojze Vodovnik: The Application of Electrical Engineering Principlesto the Functioning and Rehabilitation of the Human Nervous System.

FELLOW NOMINATIONS

DEADLINE

Due to a significant increase in the number of Fellow nominations, it is now necessary to change the deadline for receipt of 1992 Fellow nominations - to April 15th 1992. In order that Fellow documents shall be received by that date, they may be faxed for the attention of the Staff Secretary on (212) 223 2911. Faxed copies must be followed by the original signed documents

NOT THE IEEE

There is a number of European organisations whose intersts are allied to those of IEEE Regional Members. Here are brief details of of some of them.

Telecommunication Testing Agencies form European Links

A New association has been formed to strengthen links between European telecommunication testing and approval organisations in preparation for the EC single market. The Association of Designated Laboratories and Notified bodies welcomed twenty five agencies from eleven countries to its inagural meeting in London recently.

Its primary aim is to make one-stop type-approval of terminal equipment a reality - and also to consider co-operation in the field of voluntary testing. The Terminal Equipment Directive 91/263 prompted the association's formation, and it has already begun a study of problems associated with NET1 and NET2 European type-approval standards under the current directive 86/361.

The association has a policy of openness and seeks co-operation with other organisations in related fields. Further details from:

S. Denison (Chairman) KTL-UK.

Tel: +44 482 801801. Fax: +44 482 801806.

K.Muller (Vice-Chairman) ZZF Germany.

Tel: +49 681 5892 600. Fax: +49 681 5981 600.

EUROCHIP

There is a shortage of VLSI engineers in Europe. To remedy this situation the Commission of the EEC has established an organisation (EUROCHIP) to provide European academic institutions with a number of services; they include access to chip manufacture, and the procurement of additional workstations, test equipment, CAD software and lecture posts.

Three types of Institution have been identified: Participating, Associated and Other. The first receives free-of-charge access to chip manufacture, work stations, test equipment etc; the second receives free-of-charge access to chip manufacture and is offered CAD software on a pay basis; and the third has access to EUROCHIP services on a pay basis for chip manufacture, CAD software and test equipment.

To date EUROCHIP has provided some 800 courses and 1,700,000 student-hours of training for the use of CAD software. The organisation has set up two EUROCHIP workshops with an attendance of some two hundred delegates from both Academia and Industry; there was a circuits exhibition and a class-design project competition.

Information may be obtained from: Dr. Bernard Courtois EUROCHIP, 46 avenue F. Viallet, 38031, Grenoble, CEDEX, France.. Tel: +33 76 57 46 15. Fax: +33 76 47 38 14

FEANI

(A Register of Professional Engineers)

The organisation began in 1951 with the agreement of a few European countries led by France, to form a federation of their professional engineering associations - its title is Fédération Européenne d'Associations Nationales d'Ingénieurs.

There are three grades in the Register: Group 1 requires the successful completion (by the award of a diploma) of an educational qualification equivalent to a degree, plus one year of training; the Eur.Ing. title is awarded after a further period of three years responsible experience in engineering. In general, the "Eur.Ing." is equivalent to the UK "Chartered Engineer". The regulations for Group 2 are not so clearly defined; there is no title associated with the group, which reflects the view that its members have a qualification and training in the more practical aspects of professional engineering.

FEANI has no pretensions to being a learned body; it exists as a regulating body for European professional engineers and has the potential to serve over a million engineers. It is represented in more than twenty countries and deals with all branches of "engineering"; as such it could act as a very powerful body for setting standards for an engineering education and have a powerful voice in the World Federation of Engineering Organisations. Details may be obtained from:

The Secretary General FEANI, Professor J.C.Levy, Sixth Floor, 10 Maltravers Street, London, England WC2R 3ER. Tel: 071 240 7891.

EUROSIM

Federation of European Simulation Societies

Includes European societies interested in any form of Simulation. A four-monthly Newsletter is published in Vienna and there will shortly be a Journal published in the Netherlands. The individual Societies organise their own workshops and conferences.

EUROSIM is organising its first European Congress (EURO-SIM '92) at the end of September on the island of Capri, Italy. It has sponsored a student award in honour of its first President, Professor Giorgio Savastano. Information from:

Dr. Richard N. Zobel, EUROSIM SecretaryDept of Computer Science, The University, Manchester England M13 9PL. Tel: 061 275 6189/6210. Fax: 061 275 6236.

IEEIE

(Institution of Electronics & Electrical Incorporated Engineers)

The first meeting of a European Incorporated Engineer Working Group took place in Brussels recently. Led by the 28,000 strong IEEIE, the Group will consider a pan-European engineering course with a practical orientation.

The setting up of the Working Group, with members drawn from eight European countries, is only one of the IEEIE's many European initiatives. It is considered essential that European industry should be able to draw from a pool of engineers with a practical orientation, a knowledge of at least one other Community language and an awareness of other countries' cultures. Details from:

Jenny Poulton, Press & Promotions Officer, IEEIE, London WC2R OBS. Tel: +44 71 836 3357. Fax: +44 71 497 9006.

BENELUX - CompEuro '92

Professor Patrick Dewilde

4th-8th May - The Hague, The Netherlands

Six Tutorials Each of Three Hours

Artificial Intelligence and Databases by R. Ramakrishnan
Optimisation and Programming by L.A. Wolsey
Computational Algebra by H.A. Van der Vorst
Languages and Specifications by L. Meertens.
Parallel Computing by S. Hammarling
Neural Nets by L.D. Jackel

There will be an industrial, research-oriented exhibition, advanced announcements for products, various contests and visits to research and industrial centres in the Netherlands.

Keynote speakers

Robert K. Brayton: optimising Logic for Speed, Size and Testability

James E. Demmel: Recent advances in Numerical Linear Algebra

Karsten E. Drangeid: Trends in Computer Electronics

A general lecture entitled "Fifty Years of Research and Development of Computer Memories and Storage" will be given by Professor Walter Proebster.

Lectures

Ph. Toint: New Developments in Large Scale Nonlinear Programming

- D. Roose: Grid-oriented problems on Distributed Memory Computers.
 - S. French: Strategic Decision Analysis and Group Decision Support
 - T. Roska: Programmable cellular neural networks new Paradigm
 - P. Pirsch: VLSI Architectures for digital video signal processing
 - J. Van den Bos: Direct manipulation for constructing G.U.I's
 - S. Muggleton: an Overview of Inductive Logic Programming
 - R. Mattheus: Picture Archiving and Communication Systems
 - P. Van Hentenryck: Constraint logic programming languages.
 - L. Thiele: Compiler techniques for Parallel Signal Processing
 - R.H. Perrot: Parallel Processing Language Developments
 - Y. Kodratoff: Ten years of advances in machine learning
 - J. Massey: An overview of Contemporary Criptography.
 - M. Viergever: Computer Vision in Medical Imaging
 - U. Kastens: Software Tools in Compiler Construction
 - J.W. Lloyd: Designing logic programming languages
 - K. Apt: From declarative Programming to prolog
 - C. Lester: Proving correctness of executables
 - J.J. Van Wijk: Scientific visualisation

Details: Ms C. Boers, Delft University of Technology, POB 5031, 2600GA, Delft, The Netherlands. Fax +31 15 623271.

ROMANIA

By Dr. Florin Constaninescu

In order to establish a CAS/JS joint chapter, a petition signed by ten CAS Society members and three CS Society members was sent to IEEE Headquarters in November 1991. Our main activities in 1992 will be a "Robust Systems Workshop" (Bucharest October 24-25), Non-linear Circuits & Systems Workshop (Bucharest, October 31 - November 1) and a Panel Discussion on the Teaching of Circuit Theory and Control Systems Theory in Romania and the Republic of Moldova (Iasay) - details are given below.

Robust Systems: Prof.-Dr.-Ing. Vlad Ionescu, Str. Emile Zola nr. 3, Bucuresti 71272 Romania. Tel:+400 336378. Fax: +400 120188.

Non-linear Circuits & Systems: 31:10-1:11:92. Conf. Dr.-Ing.Florin Constantinescu, str. Trainan nr. 187, Bucuresti, 73114 Romania. Tel: +400 354 780. Fax: +400 120 188

Chapter Organiser: Dr.-Ing. Florin Constantinescu, Bucharest Polytechnic Institute, str. Traian nr. 187, Bucuresti 71272. Romania. Tel:+400 336 378. Fax: +400 120 188

VALADIMIR KARAPETOFF AWARD

The Eta Kappa Nu Engineering Society is sponsoring this award in honour of a distinguished engineer, Professor Valdimir Karapetoff; the recipient will be an engineer distinguished through invention, development or discovery in the field of electrotechnology.

Apart from the recognition there will be a sum of \$5,000 to be awarded singly or shared by members of a team.

Further details: Berthold Sheffield, 149 Bridgepoint Road, RD2: Belle Mean NJ 08502, USA. Tel: (908) 359 8349.

TURKEY

By Dr. Ayhan Altintas

As the new Chairman of the Section Committee, I would like to say "hello" to region 8 News readers. I wish to thank the past Committee members and especially the past Chairman Dr. Levent Onural for the excellent work they have done.

We have three Society Chapters - Signal Processing, Circuits & Systems and Computer Society; and there are two student branches. The Section will be cooperating in the organisation of (a) "Bilcon '92" - a conference on lightwave technology and Communications, Bilkent University, Ankara, on July 27-28th 92. (b) "ISCIS VII - a symposium on Computer Information Sciences", in Antalya, on November 2nd-4th 1992. Information from: (a) Dept of Electrical Eng. Bilkent 06533, Ankara, Turkey. Tel: +90 4 266 4307. Fax: +90 4 266 4127. (b) METU, Dept of Computer Eng., 06531 Ankara, Turkey. Tel: +90 4 223 7100 Ext 2079. Fax: +90 4 286 8624.

Dr. Levent Onural is in the process of bringing together some Universities and National Engineering Organisations for Melecon '93 - the responses so far seem to be favourable

There will be conferences and lectures. Our Student Branches, are organising Student Trans-National Meetings. The METU Branch is planning a visit to many European Countries in February 1992, and the Bilkent Branch is inviting students from Region 8 Countries. Information from: Miss Gozde Bozdagi's column in this issue of Region 8 News.



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Region 8 Conference Record

Davos, Switzerland

30 Aug.-3 Sept. 1993

ECCTD '93
European Conference on Circuit Theory
& Design

Prof. G.S.Moschytz. Inst for Information & Signal Processing, ETH-Zentrum, CH-8092 Zurich. Fax: +41 1 262 08 23

Nijmegen, the Netherlands

22-24 June 1992

THEOREM PROVERS IN CIRCUIT
DESIGN

Theory, Practice & Experioence

Miss Victoria Stavridou, Dept. of Computer Science, RHBNC, University of London, Egham Hill, Surrey, UK. TW20 0EX. Tel:+44 784 443 429/3421. Fax: +44 865 273 839/784.Fax: 02-836323

Zurich, Switzerland

16-19 Mar '92

1992 International Zurich Seminar on Digital Communications

Intelligent Networks and their Applications

Secretariat IZS '92, PO Box CH-8340 Hinwill, Switzerland. E-mail:izs@ks.id.ethz.ch. Tel: +41 9381 1556. Fax: +44 9381 1557 Leuven, Belgium

14-17 Sept 1992

ESSDERC '92

22nd European Solid State Device Research Conference

Timshel Conference Service, J.B. Van Monsstraat 4, B-3000 Leuven-Belgium. Tel: 32-16-290010. Fax 32-16-290510

Paris, France

22-25 Feb. 1993

EDAC-93 Design Automation EUROASIC-93 ASIC Design

CEP Consultants Ltd., 26-28 Albany Street Edinburgh, Scotland, EH1 3QH Tel: +44 31 557 2478. Fax: +44 31 557 5749

San Diego, USA

9-13 Nov. '92

IECON '92
Industrial Electronics, Control,
Instruments & Automation.

Dr. Guiseppe Buja, Dipt. d'Informatica e Elettronica, Universita di Trieste, Via Valerio 10, I-34127, Trieste Italy. Tel: +39 40 560 3415. Fax: +39 40 560 3460 London, England

19/20 & 21/22 May 1992

TWO COURSES

Personal Mobile Radio Communication.
Wireless Local Area Networks.

Continuning Education, King's Colletge London Cornwall House Annexe, Waterloo Road, SE1 8TX. Tel: 071 872 3055

Southampton, England

9 Apr.1992

SENSOR MATERIALS

Recent Developments & Future
Possibilities

Dr. M.J. Tudor, Institute of Transducer Technology, University of Southampton, SO9 5NH UK. Tel: +44 703 593545. Fax: +44 703 592865

Southampton, England

15-26 Mar. '92

MICROMACHINING OF MATERIALS

Dr. M.J. Tudor, Institute of Transducer Technology, University of Southampton, SO9 5NH UK. Tel: +44 703 593545. Fax: +44 703 592865

FRANCE

By Dr. Frédérique Vallée

Dans le cadre des accords passés entre l'A.R.E. et la Section française de l'I.E.E.E>, nous annoncons les conférences suivantes:

La perception et la diffusion du son (par M. Albert La Racine, ancien chef opérateur à l'ORTF - 19 février 1992)

- Quelques aspects de l'histoire des antennes (par MM. S. Drabovitch et Bolomey, professeurs à Supélec et la participation de M.G.Lehman, ancien professeur à Supélec - 25 mars 1992)
- La guerre électronique (par l'IGA Paul Assens, ancien professeur à Supélec - 13 mai 1992)

Ces conferences auront a 17 h, dans la salle n 11 de la FIEE, sutuée au quartrième étage du 11 rue Galilée, Paris 16ème - Metro Boissière ou léna. L'entrée est gratuite, des rafraichissements sont servis pour cloturer sympathiquement chaque séance.

Pour tout reseignement ou confirmation,

s'adresser à Mme Birckel, 193, rue du Faubourg, Saint-Martin, 75010 Paris. tél: (1) 46 07 40 77

Compléments d'informations sur INFAUTOM 92

INFAUTOM est une nouvelle fois dédié à une technologie de pointe: le éveloppement de systèmes 'intelligents' capables desecond er l'homme. L'Aéronautique et l'Espace mettent en jeu des systèmes de plus en plus complexes; INFAUTOM '92 se propose de montrer comment l'intelligence Artificiale s'applique dans ces do maines.

Le caractè international d'INFAU-TOM s'affirme: sur les dix-neuf confe'rences, dix seront proposees par des specialistes etrangers. Surveillance des satellites, du trafic aerien ou routier, des centrales nucleaires. copilotes electroniques (France, USA), Royaume-Uni, (Allemagne), robotique mobile planetaire (USA, URSS, Japan) avec demonstration de l'ADAM, les UAV avions sans pilote - USA, Israel) sont

demonstration de l'ADAM, les UAV - avions sans pilote - USA, Israel) sont les principaux sujets dont debattront les participants d'INFAUTOM 92.

Conferences

Conpars 92-VAPP V (Conference on Parallel Processing - Vector and Parallel Processors) - Lyon 1-4 September 1992.

The programme will cover: languages/software tools, hardware/architecture, algorithms, models/semantics, testing and tebugging, automatic parellelization and mapping, performance analysis, applications, paradigms for concurrency and portability. Call for papers: submission for Papers and Tutorials - February 1992 Information: Pr. Michel Cosnard, Ecole Normale Supérieure de Lyon, Laboratoire de l'informatique et du parrellélisme, 46 allée d'Italie, 69364 Lyon Cedex 07, France: Tel: +33 72 72 80 37. Fax: +33 72 72 80 80.

Section Chairman: Prof. Maurice G. Bellanger, 54 rue de REnnes, 75006 Paris, France. Tel: +33 1 46 30 62 24



Paderborn, Germany June 9-12th 1992

Fifth International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems

Expert & Diagnostic Systems
Software Engineering & AI/ES
Robotics
Intelligent Interfaces
Neural Networks
Pattern Recognition
Machine Learning
....and many others.

Register Now

(Reduced Fee for Registration before May 7th)

Industrial Exhibition. Plenary Sessions - Expert Speakers Tutorial, Technical and Social Programmes

Advance Programme & Registration: Altreza Azem, University of Paderborn, FB14/110, PO Box 1621, D-1790, Paderborn, Germany

King's College London

UNIVERSITY OF LONDON

Communications Research Group

Personal & Mobile Radio Communication Systems

19/20 May 1992

Technical aspects, operations and applications of second generation and future cellular mobile and personal communication technology

Wireless Local Area Networks

(to be given by Dr Kaveh Pahlavan)

21/22 May 1992

The Continuing Education Unit, King's College London, Cornwall House Annexe, Waterloo Road, London SE1 8TX Tel: 071 872 3055/6

Some Popular Selective Mailings

United Kingdom & Ireland 3,500

Europe excluding UK & Ireland 18,000

Middle East & Africa 3,000

If the public doesn't know what you are selling, how can you expect to see customers in the shop?

Your conference must be worth a £25 advertisement.

Here you could convince 25,000 practising engineers that your conference would be a bargain at twice the price.

Advertisements

One box in Region 8 Conference Record - £25 sterling

In between there are advertisement rates to suit all budgets

One whole page in Region 8 News in full colour - £1,400 sterling



It's time for correct software

Contrary to widespread belief, it is now possible to achieve the same freedom from design errors in software as has long been normal in hardware designs. The following will help you to design correct programs:



- ► The three day seminar "Designing Error Free Software", available publicly or on-site in English or German
- ► The book *The Spine of Software: Designing Provably Correct Software Theory and Practice* (Wiley, 1987)
- ► The book Error Free Software: Know-How and Know-Why of Program Correctness (Wiley, 1991)

For further information, please contact

Robert L. Baber, Software Engineer, Consultant

Landgraf Gustav Ring 5

D-W6380 Bad Homburg, Germany

Tel. +49-6172-31478