# IEEE Region 8 News

No 99 - August 1992 Europe, Middle East and Africa

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Continuing

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Editor

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

> Telephone: (+44) 2518 2625 Fax: (+44) 2518 2625

# Professor Giorgio Molinari

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• the IEEE Distinguished Lecturer series.

A formidable array of potentially valuable Continuing Education material.

# Educational Sinks

The recipients of all this invaluable knowledge are of course the IEEE members; not a body of equally educated engineers having a uniform background and all raised under the same cultural umbrella, but the same heterogeneous collection of humanity that can be met in any other section of the human race. Recently graduated students excellent on theory but lacking practical application experience, and seeking to better their chances of setting off on an interesting and well paid career; academics with narrow research interests or with a need to keep their teaching engineering managers up-to-date; who appreciate that their failure to maintain an awareness of current developments, will have disastrous effects on their company and their career. And practical engineers who need to

culture largely to the ancient Romans & Greeks, modulated by wars and migration. It is not then surprising that attitudes to education are different in the two continents; a relatively homogeneous system in the United States, and a wide variety of separate systems within our Regional Boundaries.

It is then desirable that we should examine the IEEE educational material produced in the U.S. and ask ourselves whether it would meet an equally enthusiastic reception on this side of the Atlantic; should that material be modified and if so how, and by whom? In the United States engineering circles the language barrier does not exist; but in spite of the so-called universality of English in Europe, it has to be accepted that teaching in the major part of Region 8 is conducted in national languages. There is an added complication: within the region there are emerging new versions of the English language, a situation which already exists between Europe and the U.S. Who is to

"translate", or continue the translation experiments already started, or shall we in the future be able to persuade the many different Regional nations to adopt a common version?

What of the cost of some of the more technically advanced educational systems. Satellite teaching is technically feasible but not technically easy, partly due to differing standards, and in any case it is undoubtedly expensive. And would students be prepared to travel from one part of the Region to another, at the current high costs?

# The Future

None of these matching difficulties is insuperable, and that is what we intend to demonstrate.

Institute of Electrical & Electronics "Engineers Regional Director: Prof. Dr. Kurt Richter



make things that work, at the lowest possible cost.

Our problem then, reduces to the development of a Continuing Education system which will encourage the efficient transmission of knowledge from the former to the latter. The everyday problem of matching the source to the sink.

## Source - Sink Matching

Modern North American culture had its origins in Europe, which in turn owes its

programme is, as in engineering projects, to match the

the "sink"; the source in our case being the educational material available from the IEEE and the sink the members of the Institute. In these rapidly changing technological times no one would quarrel with the view that in one form or another, engineers can survive in this competitive world only if their education continues long after initial degrees and diplomas have been awarded.

### Educational Sources

Our sources of educational material include:

• "Spectrum", a wide ranging view of electrical engineering developments

a range of broad-scope periodicals such as the IEEE Proceedings

and several magazines and reviews addressing advances in specific fields.

• Society "Transactions", specialised publications providing detailed information on research and the practical application of engineering principles

. Conference Proceedings, summary or abstracts of current developments;

 Self-study Courses, addressing individual member's requirements; Video Conferences, seminars via satellite with integral question and answer sessions; a wide variety of IEEE and commercial specialised courses; and

# Sweden

By Dr. Anders Derneryd

#### Corporate Innovation Recognition

Ericsson Radio Systems AB, Stockholm, Sweden, has received the IEEE Corporate Innovation Recognition for "Significant Contributions to the Development and Implementation of Analog and Digital Cellular Radio Technology". The award was accepted by Lars Ramqvist, the Company's president and chief executive officer, at the May 10th Honours Ceremony.

#### 31 August - EMC and MTT/AP Chapter meeting in Göteborg:"

Singularity expansion method (SEM)" and "Impulse radiating antennas" - Carl Baum. Information: Arild Moldsvor at 031 772 1724

#### 14 October - Electromagnetic Day in Göteborg:

"Modern trends in microwave antennas" -Helmut Schrank

- "High TC superconductive devices and circuits" Ted van Duzer
- ''Accurate radiated field strength measurements'' Thomas Dvorak
- Two National speakers: Lars Josefsson and Erik Kollberg

Information: Piotr Starski at 031 772 1734

#### 20 October - VT/COM Chapter meeting in Kista:

One day seminar on "System structure for personal communications"

Information: Henry Schefte at 08 719 2159 or Fax 08 710 2011

#### 22 October - EMC Chapter meeting in Stockholm:

Topics: EMC testing and standards

Information: Peter Landgren at 0586 81428

Section Chairman: Dr. Piotr Starski, Chairmers University of Technology, Division of Network Theory, S-412 96 Göteborg, Sweden. Tel: 031-772-1734. Fax: 031-772-1561. E-mail: piotr@nt.chairmers.se (UUCP).

# Germany

### By Prof. Dr.Ing. E. Handschin

#### The XVth International Symposium on Discharges and Electrical Insulation in Vacuum

will be held at the Technical University of Darmstadt (THD) 6-10th September 1992

Darmstadt is located about 30km south of Frankfurt Airport. It is a city of about 140,000 inhabitants and an important centre for scientific institutions, industry and administration. Several technical post-conference tours will be organised: to Institutes of the Technical University, to the Gesellschaft für Schwerionenforschung (GSI) and to companies that have specialised in vacuum equipment and electrical components using vacuum. It is planned to include a technical exhibition, demonstrating recent applications of vacuum technology applied to electrical insulation.

#### Interested participants should contact:

Prof. Dr.-Ing. Dietr König, Chairman of the Local Organising Committee, Technische Hochschule Darmstadt, Institut für Hochspannungs - und Meßtechnik, Fachgebiet Hochspannungstechnik Landgraf-Georg-Str. 4, Darmstadt, Germany. Tel: 06151/16 2168. Fax: 06151/165489. Telex: 419579 thd

#### Important 1992 Dates:

June 19th Submission of camera-ready manuscript for proceedings.

August 8th Final date for Symposium Registration and hotel reservation

Sept 6th Arrival

Sept 7-10th Symposium in Darmstadt

Section Chairman: Prof. Dr.-Ing. Adolf J. Schwab, Kaiserstrasse 12, 7500 Karlsruhe 1, Germany. Tel: +49 721 608 25 20. Fax: +49721 69 52 24.

# Finland

#### By

#### Mr. Arno Lehtola & Mr. Jari Jokiniemi

The Section is actively developing cooperation with various national technological societies; we are also promoting an increased general awareness of the IEEE. For example, we had an IEEE stand at the book exhibition of the Finnish Artificial Intelligence Conference -STeP. The E-mail address, sec.finland@ieee.org, is available for those wishing to contact the Finland Section.

#### August 18, 9 AM:

MTT/AP Chapter will elect new officers. The meeting will be at the Helsinki University of Technology room S3. There will be a lecture "Radiotekniikkaa ja siivekkaita etellanapamantercella" after the election. Contact Prof Ari Sihvola, Tel: (+358 0) 451 22 61. E-mail ari.sihvola@hut.fi.

#### August 24-27:

MTT/AP Chapter will organise the 22nd European Microwave Conference (EuMC '92) at the Helsinki University of Technology, followed by a day devoted to three work-

Region 8 News is not an Official Publication of the IEEE; the views expressed are those of the Authors shops, developments in microwave communications, novel microwave materials, and the use of submillimetre waves. Contact: Prof. Antti Raisanen, Tel: (+359 0) 451 22 41, or Prof. Ari Sihvola (see above)

#### September:

Oulu Student Branch activities continue after the summer pause. Contact: Juha Kokkonen, e-mail db@stekt.oulu.fi.

#### November 6:

Symposium on "Intelligence in Embedded Real-time Systems" at the Helsinki University of Technology in lecture hall E, starting at 10 am and ending at 5 pm. The symposium has been organised jointly by the Computer Chapter, the Finland Section and the Finnish Artificial Intelligence Association (STeS). There will be thirteen presentations on current topics in the field. Contact: Prof. Olli Simula, Tel: (+358 0) 451 32 71. E-mail Olli.simula@hut.fi.

#### Call for Papers.

IEEE Winter Workshop on Nonlinear Digital Signal Processing - January 17-20 1993. Tampere, Finland. Submissions: 3 copies of 2page summary by October 1 to Dr. Petri Havisto, Signal Processing Laboratory, Tampere University of Technology, POB 553, SF-33101 Tampere, Finland. Email:pjh@cs.tut.fi Fax: (+358 31) 16 18 57.

# VN IS '92

By Dr. J. Baal-Schem

#### The 3rd Int. Conference on Vehicle Navigation & Information Systems

will be held in Oslo, Norway, on 2nd-4th September 1992. The programme includes papers on: Driver & Traveller Information, Traffic Monitoring & Control, Routing, Navigation, Communications, and Fleet Management. A "Programs Update" Plenary Session will include presentations on European, American and Japanese Vehicle Navigation Programs by eminent speakers. The Social Program will include a Reception at the Oslo City Hall and a Norwegian Buffet Dinner and several tours around Norway. Contact: PLUSreiser A/S, att. Marianne Stenhaug, P.O.Box 946, Bergen, N-5001, Norway. Fax: +47 5 90 20 91

#### The 1992 Region 8 Symposium on Electromagnetic Compatibility

will be held in Tel-Aviv, Israel on 2-5 November, 1992. The main topic is "The 1992 EEC EMC Directive - its application and implications". The symposium will feature tutorials and workshops, a technical exhibition and technical excursions. Spouse activities are planned, as well as post-symposium tours of the Holy-Land. Contact: ORTRA, PO Box 50432, Tel-Aviv, 61500, Israel. Fax: +972 3 660952.

# Committees

There is an IEEE Board which deals with Regional matters - RAB, and another which deals with Technical matters - TAB - Chairman Professor Aldana (*Spain*); these two boards, acting together, have established an additional *committee* which deals with Technical affairs in Regions outside the United States. That committee, its title is "RAB/TAB Transnational Committee", herein called R2TC, held one of its meetings last November. The following paragraphs are an interpretation of the minutes of the R2TC November meeting.

#### **IEEE Election Ballot Papers**

It was agreed that the IEEE Board of Directors, the highest authority in the Institute, should be asked to continue the procedure started in 1991, of mailing Regions 7-10 election ballot papers by airmail so that they arrive in good time for the autumn election. It has been established that, with relation to 1990, the number of 1991 returned ballot papers showed an increase of 6%; that increase was considered to be statistically significant.

#### Increased Interest in Society Affairs

The IEEE Technical Societies are becoming more aware of the value of international projects; there is also a greater interest in Society affairs being shown by members in Regions outside the U.S.A.

#### Improved Services for "not too technical" members.

Under consideration is an investigation into the feasibility of establishing services which would be of interest to the "not too technical" members. A *committee* has been formed to propose projects dealing with engineering design and with manufacturing engineering.

#### Short Courses & Tutorials

There is a "New Ventures Committee"; it is studying the possible introduction of short courses and tutorials in Regions 8-10. Some preliminary experimental courses have been conducted in Singapore; the results did not produce evidence sufficient to justify a firm conclusion. There is no reference in the R2TC minutes of the problems of translating courses

# Turkey

#### By Dr. A. Altintas

With four cooperative conferences, the Turkey Section has a very active 1992.

- First Turkish Artificial Intelligence and Artificial Neural Networks Symposium -25-26th June at Bilkent University.
- 1992 Bilkent International Conference on Lightwave Technology and Comms, 27-28th July at Bilkent University.
- International Biomedical Engineering Days, will be held on August 18-20th at Bogazici

for Europe, although experiments have been conducted; is there a travel problem ?- Ed.

#### An R2TC Task Force

The R2TC has appointed a "Task Force" committee under the chairmanship of Dr. Jacob Baal-Schem (Israel), to study Region 8 "Activities". That Force has focussed on three principal subjects:

i) Developing in the IEEE PressBook series a volume which concentrates on European Developments, ii) The feasibility of broadcasting video-conferences in Region 8, and iii) European Technical Journals in competition with the Institute's publications. The R2TC recognises that videoconferences in Europe are both complicated and expensive.

#### Digital Mobile Communications

Professor Öhrvik (*Sweden*) will continue working on a project to publish a PressBook on ''Digital Mobile Communications''

#### Spectrum

The R2TC recommended that effort should be directed towards ensuring that SPECTRUM reflects to a greater extent, the international character of the IEEE. (*The committee might* also have suggested that every effort should be made to ensure that Spectrum, once the flagship of the IEEE publications navy, should be restored to its former glory and prestigue. Ed.)

#### International Affairs

It is reecognised that some parts of the IEEE are dealing well with the increasingly international character of the Institute, but that others are not doing so. It is suggested that the Institutes staff should include members responsible for "International" and "Regional" affairs and that those officers should have close links with the existing Brussels Office and the future one in Region 10 (Asia and Australasia). These personnel should have an adequate cultural background and language capabilities. Also under consideration is the suggestion that there should be a Vice-president for International Affairs. There might also be an "Ombudsman" to deal with problems arising

University, Istanbul, Turkey. Contact: Prof. Okyay Kaynak.

- Seventh International Symposium on Computer and Information Sciences. 2-4 Nov. 92 Antalya, Turkey. Contact: ISCIS VII METU, Computer Engineering, Ankara, Turkey
- November 2nd-4th 1992, Antalya, Turkey. Contact: ISCIS VII METU, Dept of Computer Engineering, Ankara Turkey.

A joint chapter of AP-MTT has been formed; this brings the total number of chapters to four. All the chapters are active in organising lectures and seminars. from non-US members; he should be an experienced person or perhaps a group of persons.

The qualifications required of these international personnel are impressive: i) an understanding of the cultural differences between USA, Europe, Iberoamerica, Middle East etc. ii) Language capability - Spanish, French German and Chinese/Japanese. The proposal for a Vice-president of International Affairs is illustrated by an organisational tree which includes: International *Committee*, International Member Service, International Technical Operations and other International Interests. Since the word "transnational" does not appear in the dictionary, it is suggested that it should be replaced by "international".

(See Region 8 News July 1987 - there could be no more powerful argument in favour of this change than the minutes of the R2TC itself; we have several pages devoted to "international" matters, frequent reference to "transnational" affairs and both terms used in the same paragraph with no apparent difference in meaning)

An earlier proposal which has been under consideration is the establishment of a "Manager Transnational Services", (the distinction between a Manager and a Vicepresident seems to be that the first is paid and the second is not - Ed). We have similar requirements for the Manager as for the other proposed members of "international" staff. He should understand the non-US cultures and be well versed in some European languages; it is admitted that such a person is unlikely tc understand the "Asian Culture" (is there only one? Ed.) which dominates Region 10. (The Region 8 representative on this committee was Dr. Hugo Ruechardt (Germany.)

#### We are Listening

Members in Region 8 will await the outcome of this splendid committee work, in the expectation that the next issues of the RTC Committee Minutes will provide a progress report and a forecast of the dates when these plans are to come into operation. *The Editor.* 

Istanbul Technical University now has a Student Branch. Bilkent, METU and Hacettepe University Student Branches have been quite successful in recruiting new student members. METU Branch received the Region 8 Membership Growth Award. Bilkent University Student Branch is organising a TransNational meeting of Region 8 Students

Istanbul will the venue for the October Region 8 Committee meeting. We hope that they will enjoy their visit to Turkey.

Section Chairman: Dr. Ayhnan Altintas, Bilkent University, EE Dept., TR-06533, Ankara Turkey. Tel: +90 4 266 4307. Fax: +90 4 266 4127.

### Poland

#### By Professor Andrzej Filipkowskihe

Poland Section has 200 members (an increase of 16% in three months); there are 19 members in our Student Branch, an increase of 26%. These data are somewhat pessimistic because our cheques are not processed on time by Headquarters; our files show more than 220 members.

Since November 1991 we have organised twentytwo technical meetings, four with lecturers from abroad. There are three Chapters: AP/AES/MTT - Chairman Prof. J. Modelski; CAS - Chairman Prof. A. Dabrowski; and PE/IA - Chairman Prof. Z.Ciok.

The formation of a Communication Chapter is hampered by slow clearance of our cheques.

The Section will co-sponsor the following conferences in Warsaw: International Conference on Microelectronics - September 21-23; Semiconductor Engineering & Technology - SET '92 - October 12-14; XV National Conference on Circuit Theory and Electronic Circuits -October 20-23; Passive Electronic Components - February 1993.

The Student Branch has three working groups: i) Recruitment ii) Establishing a Computer Chapter and cooperating with BEST in a computer exhibition iii) International cooperation, participation in the student meeting in Turkey, cooperation with other branches (Finland), organising in Warsaw an international meeting on student co-operation -December 1992...

Our finances are based on rebates, a substantial part of which is used for running secretariat to deal with our more than 200 members. Our section is connected to INTERNET E-mail, which has made our work more efficient and reliable. The address is a filipkowski@ieee.org

(More Polish News on Page 7)

# Membership Development

Each Member Wins one New Member

By Professor Walter E. Proebster



cooperate.

Engineers are very practical people, who would not support the IEEE unless there were real advantages to be gained from membership - it is our aim to present those advantages in a way



which ensures that engineers and computing specialists realise that joining the IEEE contributes something important to their cateet It is essential that engineers, computer experts, industry and the universities

should be made aware of the importance of taking advantage of the most modern advances, and so keep abreast of the competition in international technology; that, and the fact that there are in Europe alone several million electrical, electronic and computer experts, give us good reason to believe that it is possible to increase very substantially the number of Region 8 members in the IEEE.

It is you who have the influence to persuade potential members to become real members, by convincing them of the advantages of joining the IEEE. Your personal recommendation is of greater value than any publicity which the Institute itself can provide.

An application form is on the adjacent page. There is surely at least one of your colleagues who would benefit from IEEE membership - guide his or her pen in the direction of success.



# For Students

#### By Gozde Bozdagi

The Student Paper Contest is always one of the main activities concerning students in Region8; this year it was held in Den Haag during CompEuro '92. We had one first prize, one second prize and two third prize winners. The first prize winner came from Italy, University of Firenze; congratulations to Vieri Vanghi and the other winners.

Another activity of the Region is the TransNational Meeting, which will be held in Turkey in August - by the time you receive this issue, it may have ended. The programme is really good, both technically and

I know that there are students who wanted to attend it but couldn't because they were unable to obtain financial support; we are always

culturally and I believe that it will be an excellent occasion for students to

faced with this money problem in all the activities of Region 8. It really is a huge region and some solution must be found to make it possible for students from all over the Region to participate in the activities. I was advised to use e-mail as a beginning - what do you think of having a competition (software, paper, etc.) on e-mail? If you are willing to do it, lets do it!

Gozde Bozdagi Student Representative, Bilkent University, Dept. Elec. Eng., 06533, Ankara, Turkey e-mail : bozdagi@trbilun.bitnet

# Africon '92 - 22-24 September '92

#### By Dr. J. Baal-Schem

This is the third Region 8 Conference in Africa; its host will be the Africa Section and it is co-sponsored by the Foundation for Research Development and the S.A. Institute of Electrical Engineers, with the cooperation of the S.A. Committee for CIGRE.

There will be tutorials on: Satellite Communications, Bridging the Tertial Educational Gap, Photovoltaic systems for remote areas, and Communication Network Technology. Lectures are scheduled for three main subjects of the Conference: Power, Telecommunications, and Education for Africa. There are over 200 papers from 30 countries, and there will be workshops and discussions on System Maintenance & Reliability, Carrier & Coding, & Load Technology.

In addition to the principal co sponsors some 20 companies have provided financial support; they will be represented at the Technical Exhibition. Their support, and that from Region 8, will assist African IEEE members to attend the Conference and enable Educators and Decision Makers from Africa to attend AFRICON '92.

It will be springtime in the Ezulwini valley with a temperature of some 18 degrees Celsius

Transport to the Swazi Sun Hotel will be provideed by luxury air-conditioned coaches from Johannesburg, aa well as by direct flight from Jan Smuts Airport to Manzini. A valid passport is necessary, as is a visa, which can be obtained at the Swaziland borders.

For further details and registration information, please contact: AFRICON '92, FRD, PO Box 2600, Pretoria, 001 South Africa. Fax: +27 12 841 3791. (Regional Conference Co-ordinator)

1	The Institute of Electrical Membership Please enter all Information				
1	proper alphabetical sorting i Name:	AND ADDRESS for Mailing. Please circle the first letter of your family name (surname) to ensure proper alphabetical sorting in the membership database.			
	Town:	Post Code:			
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	Employer:	If Yes, please give your Membership Number?			
	Address				
		(To be paid with this application)			
	Date of Birth Male Female	IEEE dues only \$ IEEE Society Membership (1) S Code \$			
	Date of Dirth	(2) \$			
3	EDUCATION	(3) \$ Total			
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5	EDUCATION	Students should complete Sections			
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	CourseTitle	1,2,3,4,6 & 7			
	Expected Graduation Date	FOR OFFICE USE ONLY			
	ENDORSEMENT: I endorse this application for Student	Member number St / Country Zip Code / City Reg Coun Sect Subsec			
	Membership of the IEEE and certify that the information given is correct.				
	Date	C/S County A/C BPA Code Grade Birthdate S			
	If NOT signed by the Student Branch Counsellor, may be signed	28 29 32 33 41 42 43 44 49 50			
	by an IEEE member or by the Head of the University Department	WP9201			

Additional Copies of this form may be obtained from: Prof. Dr. Walter E. Proebster Institut fur Informatik, Orleansstrasse 334, D-8000 Munich 80, Germany

### Technical Activities



To meet members' technical needs, the Institute sponsors annually some 300 conferences, and conducts learning programmes and satellite courses; it publishes over 300,000 pages of technical journals, conference records, standards and books, all of a very high standard. Wherever you reside there is a local IEEE organisation to meet your requirements; a certain way to ensure that your knowledge of research and practical developments will remain up to date.

# Payment

From the information given in the adjacent column, complete Section 7 on the other side of this form; also in Section 7 please indicate the method of payment. Send the completed form, together with your cheque, if that is how you wish to pay, to: IEEE TAB Brussels Office, 13 avenue de L'Aquilon, B-9200, Brussels, Belgium.

You may pay in US dollars or in any EEC currency, using the \$ conversion valid on the date of your payment. The Brussels office deals only with New Member Applications; all other applications or renewals should be sent to:

IEEE Field Services, 445 Hoes Lane, Box 1331, Piscataway, NJ-08855-1331, U.S.A.

## Specialised Technical Societies



By joining IEEE, in any grade except Affiliate, you will receive the monthly Journal "Spectrum", which contains very well produced articles of general interest to all engineers; an excellent way of keeping you in touch with recent developments. In addition there is the Institute's monthly newspaper dealing with matters affecting the membership, and the quarterly Regional publication "Region 8 News". You will also be entitled to generous discounts on a wide variety of the Institute's technical publications.

# Region 8 1992 Dues and Fees

You pay **Dues** for membership of the IEEE itself, and **Fees** for membership of the Technical Societies. Every member pays IEEE dues; you pay Society fees only for those Societies you choose to join.

**Students** pay half the member fees for both the IEEE and the Technical Societies.

# Region 8 Membership Dues - \$84

If you pay between Sept 1st of one year and February 28th of the next year, the dues are half the sum shown above; this is for your IEEE membership until the end of the year in which the February occurs.

If you pay between March 1st and August 31st you pay half the sum shown above; this is for your IEEE Membership until the end of the current year.

### Society Fees

You pay the full fees shown below, or half the fees shown below, according to the same rules as those for Begion 8 Membership dues.

ļ	for Region 8 Membership dues.				
	Technical Societies S	-Code	Full Fee		
	Aerospace & Electronic Systems	S-10	\$15.00		
	Antennas & Propagation	S-03	12.00		
1	Broadcast Technology	S-02	8.00		
	<ul> <li>Circuits &amp; Systems</li> </ul>	S-04	4.00		
	<ul> <li>Communications</li> </ul>	S-19	12.00		
	<ul> <li>Components, Hybrids and</li> </ul>				
	Manufacturing Technology	S-21	9.00		
	Computer	S-16	22.00		
	<ul> <li>Consumer Electronics</li> </ul>	S-08	15.00		
	<ul> <li>Control Systems</li> </ul>	S-23	15.00		
l	<ul> <li>Dielectrics &amp; Electrical Insulation</li> </ul>	S-32	15.00		
I	Education	S-25	12.00		
	<ul> <li>Electromagnetic Compatibility</li> </ul>	S-27	10.00		
	Electron Devices	S-15	10.00		
	Engineering Management	S-14	13.00		
I	Engineering in Medicine & Biology	S-18	16.00		
	Geoscience & Remote Sensing	S-29	10.00		
1	<ul> <li>Industrial Electronics</li> </ul>	S-13	15.00		
1	Industry Applications	S-34	15.00		
ł	<ul> <li>Information Theory</li> </ul>	S-12	8.00		
l	Instrumentation & Measurement	S-09	12.00		
l	<ul> <li>Lasers &amp; Electro-optics</li> </ul>	S-36	15.00		
۱	Magnetics	S-33	10.00		
l	Microwave Theory & Techniques	S-17	12.00		
	<ul> <li>Nuclear &amp; Plasma Sciences</li> </ul>	S-05	12.00		
	<ul> <li>Oceanic Engineering</li> </ul>	S-35	15.00		
	<ul> <li>Power Engineering</li> </ul>	S-31	15.00		
	<ul> <li>Professional Communication</li> </ul>	S-26	15.00		
	<ul> <li>Reliability</li> </ul>	S-07	10.00		
	<ul> <li>Robotics &amp; Automation</li> </ul>	S-24	15.00		
	<ul> <li>Signal Processing</li> </ul>	S-01	18.00		
	<ul> <li>Social Implications of Technol, ogy</li> </ul>		12.00		
	<ul> <li>Systems, Man &amp; Cybernetics</li> </ul>	S-28	11.00		
	<ul> <li>Ultrasonics, Ferroelectrics, and</li> </ul>				
	Frequency Control	S-29	15.00		
	<ul> <li>Vehicular Technology</li> </ul>	S-06	13.00		

### CAS Chapter Co-ordination

#### By Professor Anthony C. Davies

The CAS Chapter Chairmens' meeting was held on May 12th in San Diego, the third in this series of Annual Region 8 meetings, which are beginning to show some impact on Chapter Development, seven new Chapters having been established in the Region.

Many Chapter Chairmen are now in regular contact through electronic mail and otherwise, sharing experiences and making contacts with members of the CAS Society Board of Governors.

Prof. Anthony C. Davies, Region 8 CAS Chapter Coordinator. E-mail: tonydavies @ uk.ac.kcl.cc.oak

### UKRI

#### By Professor Anthony C. Davies

The Heinrich Hertz Medal, established by Region 8, has become one of the annual awards of the Institute. The recipient of the 1992 Medal was Dr. James Wait, a pioneer in the study and theoretical analysis of low-frequency electromagnetic waves. He is a Distinguished Lecturer of the Antennas and Propagation Society and on June 3rd gave a lecture on 'Propagation of Long Electromagnetic Waves in the Earth Ionosphere Space'. Prior to the lecture the Medal was presented to Dr. Wait by the UKRI Section Chairman, Professor Anthony Davies.

### MTT/ED/AP Chapter

Future Chapter events include:

**21-25 Sept.** Short Course on "Microwave Sub-system Design", with the cooperation of the University of Leeds. Contact: Dr. J.R.Richardson. Tel: 0532 332010. Fax: 0532 332032

23 Sept. "High Temperature Superconductors". Dr. Andrew Phillips. GEC-Marconi Hirst Research Centre.

6 Oct. Workshop on "Microwaves & Optics" (organised by the French CAS Chapter. At TBF France. Contact Dr. Seeds, UCL,WC1E 7JE. Tel: 071 387 7050 Ex 3972.

# Egypt

#### By Professor Abdel-Latif Ahmed

The Section held two Seminars, one in cooperation with URSI on new developments in Radio Techniques, and a second in cooperation with the Institution for Telecommunications Research and JAICA on new developments in Telecommunications.

The total membership of the Section has increased by 22% and that of the students by over 200%. A new Student Branch was formed at the Mansourah Faculty of Engineering.

It was agreed with the Chairman of EGOS to invite one prominent member of the IEEE Standards Committee to Egypt and discuss cooperation between EGOS and IEEE.

# IBC '92

#### By Basil W. Osborne

This year the International Broadcasting Convention was held, not at Brighton, but at the RAI Exhibition and Congress Centre in Amsterdam. With an exhibition floor area of over 2,000 m<sup>2</sup> there were more than 300 exhibitors. The main factor behind the move from Brighton was the floor area available.

The 4-day programme of technical sessions started on 4th July with a lively talk by James C. McKinney, chairman of the US Advanced Systems Committee. He made a firm though good-natured attack on the way that Europe is evolving first towards 'extended' and then in another step to high definition television. He did not think it right to ask consumers first to buy 16:9 aspect ratio 'PAL-plus' receivers; and then later to ask them to pay out again for a higher definition system. He said that the emphasis should be to move in a single step to a digital system with 16:9 aspect ratio.

Mr. McKinney maintained that the television industry in the United States was reluctant to invest any money in advanced television systems, let alone two; and he pointed out that the Federal Communications Commission had made it quite clear than it was not interested in a two-stage process that would include 'enhanced TV'.

Peter Groenenboom, the senior managing director of Philips Consumer Electronics, disputed Mr. McKinney's argument, saying that Europe was also motivated by the consumer, and that people wanted 16:9 pictures. In his view this gave impetus to PAL-plus, and the advantage to D2-MAC.

Dr. Albrecht Ziemer, technical director of ZDF, believed that a move to PAL-plus will prepare the consumer for high definition in a very comfortable way, directly tied to the existing PAL market, and he told the delegates that there will be no opening of the mass market for 16:9 without PAL-plus.

Eamon Lawlor, head of Division 13 of the EEC, said that the tone of the discussions in the Council of Ministers on the funding of the 850 million ECU plan to implement 16:9 services via satellite using D2-MAC (and later HD-MAC) has been 'extremely positive' and he hoped for approval of the 'action plan' in November 1992.

In short (and the above formed only part of the first morning of the 4-day discussions) the emphasis this year was on wide screen television displays and digital transmissions. Copies of the Convention Record can be bought from the IBC Convention Office at the IEE in London (conf.pub. #358)

The IBC Award (in future to be known as

the John Tucker Award) was presented on 5th July to Mr. Robert Boyer, the managing director of the Thomson-CSF laboratories at Rennes.

IBC '92 was well attended, about 19,000 going through the turnstiles to the exhibition, and a total of convention registrants approximating 1,400. The IEEE sponsor's stand, a joint operation between the Benelux and the UKRI, provided hundreds of IEEE application forms; and by arrangement with the Prof. Hans Peek, the Chair of the Delft Student Branch Mr. J.M.H.Darmanata was present at the stand.

The move of IBC to Amsterdam was an undoubted success, and the Convention Chairman John Wilson said that the next IBC will be on 16-20th September 1994 in Amsterdam.

(IEEE Representative IBC '92 Committee)

# Poland - AP/AES/MTT

#### By Professor Josef Modelski

The joint Chapter now has more than forty members. Committee members were elected on 5th March; at the same meeting the suggested Chapter Bylaws were presented; after discussion they were modified and accepted. Our plans for the future include:

7th September Warsaw - Prof. H. Gross, Technische Universitat, Munchen. "Anticollision Warning Raddars with PN-Modulation and Wavefront Reconstruction at 60 GHz". Contact: Dr. E. Sedek, T.R.I., ul. Poligonowa 30 00-991, Warsaw. Tel: +49(22)102-571. Fax: +48(22)102-571.

16th September - Prof. B. Galwas, Dr. M. Mrozowski and Dr. E.Sedek "New Trends in Microwaves & Optoelectronics based on the IEEE MTT-S Int. Mic. Symp. Albuquerque USA & 22nd Eur.MicConf., Helsinki, Finland. Contact: Prof. J. Modelski, Institute of Radioelectronics, Nowowiejska 15, 00-665, Warsaw. Tel: +48(22)256-555.

7th October , Warsaw - Dr. Stefan Misiaszek - Pico & Femtoseconds Ti/me-Domain Measurements of Electronic Elements and Circuits. Contact: Prof. J. Modelski

# Greece

#### By Prof. George Stassinopoulos

On June 30th Dr. C.P.Wong, President of the Components Hybrids and Manufacturing Technology Society, presented a lecture on Recent Advances in Non-hermetic IC Packaging; the possibility of a local CHMT Chapter was investigated

The Greece Section has actively encouraged and helped, under the guidance of Bob Winton, the creation of a Section-in-development in neighbouring Albania. Prof. Arben Tashko of Tirana University was elected chairman and the formalities are expected to be completed soon.



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