

IEEE Region 8 News

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Europe, Middle East and Africa



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Zeus, Father of the Gods and Electrician in Chief to the Heavens, Holds Symposia in Poland

By Professor Jan Nasikowski (Heavenly Scribe)

In the town of Belchatow, some 55 kilometres south of Lods, stands the largest Polish Electric Power Utility, 4320 Mw, fired by local brown coal. In this small town that large utility is of course the principal employer and is therefore much concerned with the cultural life of the local community.

Three years ago the Belchatow chapter of the Polish Electrical Society (SEP), supported by local administration and the Utility, started to organise symposia with Zeus, who according to Greek mythology and on account of his ability to produce lightning at will, is considered to be the father of all electricians. So far three of these symposia have been held, in September 1987, 1988 and 1989; it is expected that the fourth will take place in September this year - the Symposium language is Polish.

As befits the character of this ruler



of the gods, the proceedings take place in a Jovial atmosphere, the Master of the Scientific Ceremony being Zeus himself, assisted by Technocratus, Megavatus, Transforminius and others.

In keeping with firmly established mythological tradition, the principal electrician to the heavens is attended by pretty girls, nymphs, a practice which among present day electricians still continues.

In the course of the ceremonies, ambrosia is freely distributed from large goblets; a procedure which countless Polish students have found to facilitate the acceptance of abstruse electrical theories. All participants are awarded medals, in copper of course. The organisers of the IV Symposium with Zeus have for this meeting invited the Poland Section of the IEEE to play a leading role. The celestial Conference Co-ordinator has been informed.

IEEE Affiliates

Are they Welcomed or Tolerated?

Affiliates are not members (small m) of the IEEE - one might wonder why? They are required to be well educated but must not possess an electrical engineering degree or its equivalent; they might therefore be economists, administrators, writers, teachers, or even politicians. Amongst the aims of the Institute is the following:

...to enhance the quality of life for all people throughout the world through the constructive application of technology in its field of competence. It endeavours to promote understanding of the influence of such technology on the public welfare".

Surely there is no-one who would quarrel with that laudable aim, but is it not just a trifle arrogant for engineers to imagine that unaided by informed criticism, by intelligent suggestion and by logical discussion from outside their engineering "ivory tower", they can satisfy these high ideals?

Consider some of the Societies to which Affiliates are accredited: **Engineering in Medicine & Biology** - Medicine is probably the most interdisciplinary field of scientific endeavour; it steals techniques from any discipline able to solve its problems and suffers all too often from the brash engineer's lack of a biological background, how else could the "Transfer Function of the Human Operator" have been promoted? It suffers too from enthusiastic amateurs with a medical degree and some

of the latest buzz words from engineering - remember the human organs of balance as a "reflex klystron"? In the absence of Affiliates this Society would be much the poorer.

Would not **Professional Communication** be enriched by the addition of a few professors of the English language and a leavening of professional writers; we might perhaps see engineers lose their unenviable reputation for being able to converse only amongst themselves, the lay citizen being in complete ignorance of their contribution to public welfare.

Technology and Society should be seeking the intelligent "man-in-the-street", but where are the local government engineers and city administrators, and the teachers, politicians, architects and accountants?

It is not that the members of other disciplines are prohibited from joining the IEEE, but that they seem to be regarded as second class citizens, not welcomed for their potential contribution to society but tolerated because they have expressed an interest in some part of the Institute's affairs. Is it not time that we encouraged some form of "Affiliate Membership", in an endeavour to open the Institute to a wider spectrum of opinion and in so doing let the public see what it is that engineers do for Society and perhaps improve that status about which they so often complain; a Membership Development drive for Affiliates?

The Editor

International Broadcasting Convention

I.B.C 1990 will be held in Brighton, England on 21-25th September; it is the largest yet, with a record total of 270 exhibitors. To cope with the unprecedented demand for space, four specially planned aluminium-framed buildings will be erected along the seafront. The largest, some 1,300 square metres, will be located on the esplanade opposite the Brighton Centre. The second, covering almost 600 square metres, will be at the West Pier, with the other two opposite the Metropole and Grand Hotels, close to the Outside Broadcast Units and other exterior exhibits. In addition, extra space has been

made available in both the Metropole and the Brighton Centre, resulting in a total exhibition area which exceeds that of the 1988 IBC by more than 1700 square metres. The IEEE stand, set up by UKRI Section, is to be number C72, on the main floor of the Brighton Centre.

The Technical Sessions - 22nd-24th September, have been carefully planned to allow the most original submissions, from the many papers received, to be presented during the Convention. To accommodate the wide range of papers selected, parallel sessions will again be featured in the programme arrangements. The papers will reflect not only

the present state of broadcasting technology, but also look to the future, with particular emphasis on HDTV and advanced compatible systems.

Further information and registration forms may be obtained from the IBC Secretariat, Institution of Electrical Engineers, Savoy Place, London WC2R 0B1 - Tel: +44 71 240 1871 or Fax: +44 71 240 7735.

*B.W. Osborne
IEEE Representative on the IBC
Management Committee*



IEEE Publications : 1990

By Dr. Ralph W. Wyndrum Jr. - Vice President, Publications

Magazines (about 4,000 pages per year) is already well under way and will be completed in 1990.

2. There will be a similar transition for the Society Journals & Transactions - about 60,000 pages per year. This has begun with the purchase of hardware and software and the training of our staff at Piscataway. The project will take some three years to complete and in the mid 1990's will be linked electronically to a CD-ROM based archival system for libraries. Authors will be able to submit their papers electronically and reviewers will obtain and comment on papers through the same system.

3. Improvement in the distribution of IEEE publications in Region 8. We shall be examining the possibility of printing and mailing in

Europe, the regional editions of Spectrum and the larger circulation Transactions and Magazines. Quicker delivery is a major objective, as well as having regional advertising for Spectrum.

4. Continued expansion of IEEE technical publications. The effort here will be to provide our Members with the latest technical literature in areas such as superconductivity, HDTV and speech processing.

I invite you to write, telephone or fax me with your comments and advice.

*Dr. Ralph Wyndrum Jr.
Room 3L324 Holmdel, NJ 07733, USA.
Tel: +44 201 949 7409
Fax: +44 201 834 5906*

I am pleased to have been asked to report to Region 8 on the long-term planning for IEEE Publications and on our progress since these plans were initiated early in 1990. The most important elements of these plans include:

1. Transition to electronic editing. The composition and publishing of the Society

Poland

By Professor Andrzej Filipkowski

At the end of March 1990, Poland Section had 146 members, including 50 students. We expect an increased growth in the near future because hard currency is now easily available in Poland. However, because of the recent increase in dues and subscriptions many members will apply for a reduced fee as our incomes are usually lower than 100 times the basic IEEE dues.

Future Conferences

- Four conferences will be organised in 1990 under Poland Section sponsorship:
- 14th Seminar on High Voltage Technology - Warsaw on 2nd, 9th and 16th May
- 10th International Symposium on Electromagnetic Compatibility - Wroclaw, 26-29th June.
- 13th National Conference on Network Theory and Electronic Circuits, Biel-Biala, 17-19th October

- 4th Electrical Symposium with Zeus - an entertaining meeting in Belchatow - September.

Chapters

Since our last report in October 1989 the Poland Section has organised 24 technical meetings and 6 meetings of the Executive Committee. We were visited by Prof. A. Bander Vorst; for discussion concerning ways of accelerating the creation of chapters. We hope to have four chapters (CAS, MTT, Power and Computer)

Section Newsletter

The production of a Section Newsletter in a new form started last year, but the economic crisis in Poland makes this difficult; we hope to obtain support from Headquarters. International contacts with ETH in Zurich have been fruitful; new branches in Kodz and Zielona Gora are expected to be established in 1990 and 1992.

Section Chairman: Professor Andrzej Filipkowski, Komarowa 88-11, 02-507 Warszawa, Poland

IEEE 1991 Colloquium in Europe

By Dr. H. Troy Nagel

Since the early 1980's the IEEE Technical Activities Board has sponsored an annual Colloquium outside North America, in Europe, Asia & Australia, and Latin America. The 1988 Colloquium was in Madrid its subject being Society/Chapter relationships; the 1989 meeting was organised as a Distinguished Lecture Tour in Australia, Singapore and India; the 1990 event is to be in South America, as both a Distinguished Lecture Tour and a Chapter's Workshop; in 1991 the gathering is scheduled to return once again to Europe.

Suggestions for 1991. At its meeting in

February 1990 the Technical Activities Board ask its Chairman to investigate and report to its June meeting, possible choices for the 1991 Colloquium in Europe. A general call for ideas was circulated to IEEE volunteers by the Chairman; it resulted in several suggestions.

- A Chapter's Workshop
- Joint Meetings with National Societies
- Tours of European Industry
- A Joint Meeting with EUREL
- Symposia or Workshops on Technical Topics of local interest.
- Technical Conference on the spread of Technology throughout the world

- A Workshop to promote inter-country and intra-country industrial liaison

The Region 8 Committee and the Region's Sections have been requested to consider acting as hosts to parts of the European Colloquium. The technical Societies are especially interested in developing contacts with organisations in Eastern Europe and in increasing Society membership throughout Europe.

A Colloquium Committee has been convened; it is expected that Colloquium will be advertised in December and that the event will be held sometime in the autumn of 1991.

South Africa

Professor P. Meyer

A Section Newsletter has been successfully launched and will be a regular feature of the South African scene. Contributions, comment and Letters to the Editor will be most gratefully received by the Editor: Professor P. Meyer, Dept. of Electrical and Electronic Engineering, University of Stellenbosch, Stellenbosch 7600.

The Computer Chapter has introduced a novel element into its programme with a "distributed" conference, half the papers being delivered at the University of Stellenbosch and the remainder at the University of Witwat-

ersrand. Our joint IEEE/SAIEE AP-MTTS90 symposium, also a new venture for us, has attracted a huge offering of papers, about a third of the papers coming from industry.

It has been decided that we should first carry out a market survey before rushing headlong into the organisation of AFRI-CON. A good question is what the theme of the conference should be. Our Membership is still growing; we now have 480 names on our mailing list. Quite a few power engineers have joined the IEEE this year, in anticipation of the formation of a Power Society Chapter. We also

have under consideration the formation of a Control Systems/Instrumentation & Measurement Chapter.

It gives us great pleasure to report the election of Professor Daan van Wyk of RAU to a Fellow of the IEEE - congratulations. We could do with more Fellows, but first of all you have to be a Senior Member; I can supply the necessary application form: Prof. P.W. van der Walt, Dept of Electrical and Electronic Engineering, University of Stellenbosch.

Professor Christoff Pauw has

paved the way for the creation of an IEEE Student Branch at the University of Pretoria. After a few setbacks (the IEEE administrators believed that "TUK" meant "Technical University of Kuwait"!), TUKSIE was duly registered as an official IEEE Student Branch. The present Committee is: Gert van Tonder (Chairman), Eric McGee (Treasurer), Dawie Strauss (Secretary) and Prof. L. Botha as counsellor.

Chapter Chairman: Prof. P.W. van der Walt, PO Box 2169, Stellenbosch 7600. South Africa.

France 1 England 0

Letter to the Editor of an English Newspaper.

Sir,

You report that the French TGV high-speed train has achieved a new record of 316 miles per hour. I am sure you will agree that such speeds offer remarkably poor value for money, since passengers are on the train for much shorter periods than hitherto.

By contrast, I have only today travelled, thanks to British Rail and the London Underground, the 5 miles from Barbican to Westminster in a full 65 minutes. What other major European capital city offers the public an opportunity to spend so much time on its public transport system at no extra charge?

Yours faithfully

H.E.M. Barlow

It is with regret that we announce the death of Professor Harold Barlow, FRS.

Harold Barlow was commissioned into the Royal Navy at the age of 17, working on the then new science of "wireless communication". He was a pioneer in many aspects of microwave engineering and developed an exceptionally strong research school at University College London, England.

In his early days he worked in the department of Sir Ambrose Fleming, who gave him his first academic post. During the last war he was head of the Radio Department at the Royal Aircraft Establishment, but on his return to University College he re-entered academic life.

Elected a Fellow of the Institute in 1956, he was in 1985 the recipient of the 1984 MTT Society's Career Award.

His research achievements were recognised by many awards from a number of academic institutions, amongst them were: the J.J. Thompson, Oliver Lodge and Fleming premiums. He later received the highest award of the Institution of Electrical Engineers (UK), the Faraday Medal. He was elected FRS in 1958, a Member of the Polish Academy of Sciences, an Associate of the US National Academy of Engineering and in 1988 he received a Royal Medal of the Royal Society.

Students and colleagues were his friends; always a gentleman, he was a great engineer

Oriental Instruction Manuals

From readers of the same English Newspaper

For a Motorcycle:

"If both the electrical and the mechanical starter systems have failed, run with the machine in gear and then engage the clutch. Should this fail, repeat until the engine starts or until the destination is reached"

For a Motor Car:

"If the brakes should fail, stop immediately and drive to the nearest garage"

EUROCON 1992

European Electrotechnology in a Worldwide Market

By Professor Albert T. Kündig

Eurocon 1992 is the 10th Conference of its kind set up by Region 8 in cooperation with EUREL; the event will be outstanding in two respects:

- As 1992 marks a milestone in the development of the Common Market, EUROCON will assess its impact on Electrical and Electronic Engineering.
- For this Conference a new format has been defined, having the primary goal of allowing managers at all levels and key professionals in Research, Engineering, and Production & Marketing, to become acquainted with recent important developments and forthcoming new technologies and techniques. The Conference will be presented in three related sessions:

1. Research and Development in Europe: (Monday 18th May)

A series of invited lectures in which leading researchers will present the state of some of the most important R&D programmes in Europe. The emphasis will be on facts and opinions, with a discussion on how R&D programmes have affected industry and the universities

2. Workshops for Key Professionals and Managers in Research, Development, Production and Marketing: (Tuesday 19th May).

In several parallel Tutorials/Workshops, specific fields regarded as important for the R&D manager and for production and marketing will be thoroughly treated. These parallel "Mini-conferences" will not compete explicitly with established specialised conferences.

A thorough mixture of invited lectures, contributed papers, panels with the active participation of the audience, and a course-like atmosphere, will allow those from industry and the universities to become familiar with developments in the area of their choice. The following is a tentative list:

- Computer Aided Engineering: from requirement specification to testing. Modern integrated toolsets covering the complete lifecycle of electrotechnological products and their impact on productivity and quality.
- Future Computer and Telecommunication Networks and their services to industry and Universities. The COSINE initiative, high speed networks etc.
- The Social and Environmental Impact of Technology. Their effect on R&D and marketing.
- Continuing Education in Electrical Engineering, Electronics and Computer Engineering. Multimedia environments will be discussed and the first results from European Projects such as DELTA and COMET will be presented.
- New approaches to Manufacturing in Electrotechnology. The most recent developments in manufacturing,
- Marketing in a Changing World. Special emphasis will be placed on multichannel environmental as both a challenge and a potential source of innovation.

3. Electrotechnology in Europe 2002 (20th-21st May).

The views of Leading Industrialists, Politicians and Scientists. A look into the future. Top-ranking personalities from Industry, Government and the Universities will present their views on the direction which Computers and Electrotechnology will take during the early part of the next millennium.

There will be a reception and a banquet, featuring a distinguished after-dinner speaker.

Kuwait

By Dr. Hussian Al-Ahmed

Section Elections were carried out on 22nd May - the following were elected:

Chairman: Mr. A.K.Al-Ghunaim
Vice Chairman: Mr. M.G.Hussein
Secretary: Dr. H.Al-Ahmad
Treasurer: Dr. Y.Al-Jalili
Membership Devpt.: Dr. A.S.Al-Omer
Professional Activities: Dr. H.A.Hamad
Students: Prof.M.Said
Education: Dr. A.Y.Al-Saqar
Newsletter: Mr. K.S.Al-Asoosi

The Section participated in the organisation of the 1990 Gulf Digital Signal Processing Symposium which was held on 5th May 1990. The symposium was the first event of its kind in Kuwait and was sponsored by Region 8, IEE and the Kuwait Foundation for the Advancement of Science. The event was very successful, with over 130 participants from

all over the Gulf area, Tunisia UK and Canada. The symposium was chaired by Prof. T.S.Durrani from Strathclyde University UK and Mr. A.K.Al-Ghunaim was the guest speaker.

Two ministers (Higher Education and Communications) attended the opening ceremony. The technical programme consisted of sessions on DSP in Communications, Special Estimations, Radar Signal Processing, and Speech & Image Processing.

Kuwait Students

The IEEE Student Branch at Kuwait University, with over 150 members, was very active during the academic year 1989/1990. It organised short courses for students in microcomputers and software applications, and field trips to power installations and local companies. Also, the branch organised the annual exhibition for microcomputers and

electronics. Companies from Kuwait displayed their latest computers and software packages. The Exhibition was patronised by the vice-rector of Kuwait University. The branch organised a sports day and a social evening for its members. Finally the branch published its own magazine *Al-Teef* the arabic word for Spectrum.

Plans for the Future

The Kuwait Section will organise four technical seminars, one short course and a social evening in the autumn of 1990. Also it will take part in the organisation of the 1991 Kuwait International conference on Technology Transfer and the 1992 International conference on Electronics, Communications and Signal Processing.

Section Chairman: Mr. A.K.Al-Ghunaim, PO Box 27, Safat 13001, Kuwait.

When You Pay Your Subscriptions & Dues Please Remember

1. To pay the complete amount of your bill, not just for Spectrum or Society subscriptions.
2. That if you pay in local currency, you must pay 2% to cover currency conversion and an additional \$10 to cover bank charges. To avoid these charges you can pay by Credit Card - Visa, MasterCard, Eurocard or American Express.
3. That Students are allowed a discount on Society publications and should take advantage of this privilege.
4. To sign your cheque and write your membership number on the back. If you have any questions please write to: IEEE Field Services, 445 Hoes Lane, Piscataway, NJ-08854 USA

North Italy

Verbale della riunione della Commissione Elettorale per il rinnovo delle Cariche Sociali della Sezione Nord Italia della IEEE

Tenuta a Bologna venerdì 27 aprile 1990 presso il Dipartimento di Elettronica, Informatica e Sistemistica, viale Risorgimento 2. Formano la Commissione: Prof. Fausto Fantini, Ing. Giuseppe Luoni, Prof. Massimo Rudan. Il numero di schede pervenute entro i termini è 409. Lo spoglio delle schede ha inizio alle ore 11 e i voti risultano espressi come segue:

Presidenza		Vicepresidenza	
Gazzana Priaroggia	331	Conte	214
Catania	3	Catania	173
schede bianche	64	schede bianche	13
schede nulle	8	schede nulle	8
voti dispersi	3	voti dispersi	3
Totale	409	Totale	409

Risultano pertanto eletti: per la Presidenza l'Ing. Paolo Gazzana Priaroggia, e per la vice presidenza il Prof. Gianni Conte. Lo spoglio delle schede termina alle ore 13:30. Il presente verbale è approvato seduta stante della Commissione elettorale. (F. Fantini, G. Luoni, M. Rudan.)

Officers

(Co = Counselor; CC = Chapter Chairman)

Ing. Paolo Gazzana-Priaroggia (Chairman), Pirelli Cavi Piazzale Cadorna 5, 20123 Milano.	Prof. Gianni Conte (Vice-chairman), Istituto di Scienze dell'Ing. Università di Parma, Viale delle Scienze, 43100 Parma.	Ing. Giuseppe Luoni (Secretary), Pirelli, Viale Sarca 202, 20126 Milano,	Prof. Arnaldo Brandolini (Co, CC-Inst & Meas), Dipartimento di Elettronica del Politecnico, Piazza Leonardo da Vinci 32, 20133 Milano.
Ing. Rosario Cortina (Co, CC-Power), ENEL - CRA, Via Volta 1, 20093 Cologno Monzese. Ing	Prof. Fausto Fantini (Co, CC-Reliability Membership Dev), via Notari 98/B, 41100 Modena.	Prof. Pietro Maranesi (Co, CC-Power & Ind. Electronics), Istituto di Ingegneria Nucleare del Politecnico, Via Ponzio 34/3 20133 Milano	Prof. Antonio Monaco (Co, Past Chairman), Dipartimento di Elettronica, Informatica e Sistemistica, Viale Risorgimento 2, 40136 Bologna,
Prof. Carlo Naldi (Co, CC-MTT-AP-CAS-ED, Dipartimento di Elettronica del Politecnico Corso Duca degli Abruzzi 24 10129 Torino	Prof. Roberto Negrini (Co, CC-Comp), Dipartimento di Elettronica del Politecnico, Via Ponzio 34/5, 20133 Milano.	Dr. G.F. Piacentini (Co, CC-Compon-Hyb-Man.Tec), TELETR S.p.A, Viale Fulvio Testi 136, 20092 Cinisello Balsamo (Milano).	Prof. Massimo Rudan (Co, Past Sec.), Dipartimento di Elettronica, Inf. & Sist., Viale Risorgimento 2, 40136 Bologna.
Prof. Giovanni Ramponi (Co, Student Act.), Dipartimento di Elett, Facoltà di Ingegneria, Via Valerio 10, 34127 Trieste.	Prof. Fabio Saccomanno (Co, Sen. Past Chairman), D.I.S.T. Facoltà di Ingegneria, Via F. Causa 13, 16145 Genova.	Prof. Mauro Santomauro (Co, Treasurer, Newsletter Ed.) Dipartimento di Elettronica del Politecnico, Via Ponzio 34/5, 20133 Milano.	Ing. Aldo Velcich (AEI Representative), A.E.I., Viale Monza 159 Milano

Student-Branch Counselors

Prof. Carlo Braccini (SB Genova), D.I.S.T. Facoltà di Ingegneria, Via F. Causa 13, 16145 Genova.	Prof. Francesco Gregoretti (SB Torino), Dipartimento di Elettronica del Politecnico, Corso Duca degli Abruzzi 24, 10129 Torino.	Prof. Stefano Massucco (SB Pavia), Dipartimento di Ingegneria Elettrica, Università di Pavia, Via Abbiategrasso 209, 27100 Pavia.	Prof. Carlo Morandi (SB Parma), Istituto di Scienze dell'Ingegneria, Università di Parma, Viale delle Scienze 43100 Parma.
Prof. Carlo Monti (SB Padova) Facoltà di Ingegneria, Via Gradenigo 6/A, 35100 Padova.	Prof. Roberto Negrini (SB Milano), Dipartimento di Elettronica del Politecnico, Via Ponzio 34/5, 20133 Milano.	Prof. Giovanni Romponi (SB Trieste), Dipartimento di Elettronica, Facoltà di Ingegneria Via Valerio 10, 34127 Trieste.	Prof. Massimo Rudan (SB Bologna), Dipartimento di Elettronica, Informatica e Sist., Viale Risorgimento 2, 40136 Bologna.

Sweden

By Dr. Anders Derneryd

Awards

The Sweden Section has great pleasure in announcing the 1990 IEEE Control Systems Science and Engineering Award to Karl J. Åström. The citation is "Fundamental Contributions in Control Theory with Emphasis on its Practical Applications".

The Sweden MTT/AP Chapter received the "Best Chapter Award. Antennas & Propagation Society of the IEEE, 1989-90" for its excellent technical programme. This is the first time that this prestigious award has been presented to an AP-S Chapter outside USA. We congratulate the Chapter and look forward to forthcoming events.

Chapters

An Electromagnetic Compatibility Chapter has formally been established in Sweden. The Chairman is Peter Landgren at AB Bofors (Tel: 0586 81428) We congratulate him and wish the chapter very good luck with its programme.

A petition for the establishment of a Power Engineering Chapter has been prepared by Roland Eriksson, KTH. Please contact him on 08 7907988 to discuss the autumn technical programme.

New Members

When applying for Membership it is very important to spell correctly the name of the university where you graduated. New members may otherwise be incorrectly classified as Associate Members. The English translations for universities in Sweden are:

Chalmers University of Technology - IEEE Code 03141
Royal Institute of Technology - 05461
Linköping University - 16021
Uppsala University - 06381
Lund University - 06671

Please check this when helping new members to complete the membership application form.

What the Vice-President - Regional Activities Does

By Dr. M.J. Whitelaw - Vice-President Regional Activities 1989

He is elected by the IEEE Assembly* for a one year term, with the option of a second similar term. Throughout his term of office he attends IEEE Region, Section and Society meetings and represents the Board of Directors and the Executive Committee at Technical Conferences. As chairman of the Regional Activities Board (RAB) the Vice-President is responsible to the Board of Directors for the management of IEEE operations outside the United States: Regions, Sections, Councils, Subsections and Student Branches. He also serves on the Executive Committee as Coordinator of Regional Activities

The Standing Committees which report to him are: Awards & Recognition, Finance, Priorities & Planning, Regional Conferences, Student Activities. Committees which are responsible jointly to the RAB and to the Technical Activities Board (TAB) are: Chapters, and Transnational. For administrative purposes the Board of Directors has assigned the following Committees to RAB: Admission and Advancement, and Membership Development.

The Regional Activities Board maintains contact with the following Boards: Technical, US, Educational and Publicity. As Vice-President he may form *ad hoc* committees to deal with special problems which may arise from time to time. He may be required to

investigate any issue that could affect the members of the Institute.

The 1990 Vice-President TAB is Dr. Robert T.H. Alden, Past Region 7 Director; he has established amongst others, the following projects for this year:

- To increase the use of electronic mail in communicating with members and Volunteer Leaders throughout the world.
- To streamline the Regional Activities Board Meetings so as to make better use of the Board's time.
- To speed up the provision of services and products to members throughout the world.
- To improve the International reputation of the Institute.

This article has been prepared with the cooperation of Miss Mary Ann Hoffman - IEEE Field Services; and Dr. Robert Alden - Vice-President Regional Activities for 1990.

*The Assembly is a committee consisting of the President, Vice-president, Past President, President-elect, 10 Regional Directors and 10 Divisional Directors. (Ed.)

News from Region 8 News

By The Editor

The Larry K. Wilson Award

The Regional Activities Board of the IEEE has presented this award to the Editor of Region 8 News for "Creative Innovation in the Editing, Production and Management of Region 8 News"; I need hardly say that the award gives me great pleasure. I have also enjoyed the challenge which the News has provided and the many friends which I have found among the members in general and the Region 8 Committee in particular.

The circulation of Region 8 News is now a little short of 30,000 - almost double the 1985 figure; which reflects the considerable growth in Regional membership in recent years - Professor Pröbster, Regional Membership Development, must derive considerable satisfaction from this substantial increase.

From 1987 we have seen a number of changes: an increase in the number of pages, full four colour printing, change of address notices as a service to members, news of local events in any European language, a substantial increase in contributions from Sections & Students, and additional advertising services. The publication lead-time has been decreased by the use of computer editing and writing so as to provide the printers with camera-ready copy.

I would not wish it to be thought that Region 8 News is a one-man-band, rather it is an orchestra in which I happen to be the Conductor. The printers, Seven Corners Press, and the mailers, Alpha Mail, have been unbelievably patient in dealing with my ignorance of the complexities, almost the secrets, of a new and mysterious trade. To those I have offended, my apologies; to those who have criticised, my thanks, for without that criticism there could be no remedial action; my thanks also to the contributors, for in their absence there would be no Region 8 News; and lastly, those who have expressed their kindly sentiments and good wishes might like to know that they do wonders for my ego.

Professor R.C.G. Williams and Mr. W.H. Devenish, who many years ago started the Region 8 Newsletter, will I hope look with some satisfaction on the development of their infant prodigy - theirs was the initiative which started it all.

For Students

By Mr. Mikko Katajamäki

I should like to advertise next year's Student Paper Contest, to be held during the Melecon '91 Conference on 22nd-24th May in Ljubljana, Yugoslavia; a lovely place well worth a visit. There will also be an International Student Meeting - the same date and place. I can tell you that this event will probably be the largest ever! So watch closely your mail, e-mail or the Region 8 News magazine for further details.

For those who are not familiar with the Student Paper Contest procedure here is a brief introduction. If you are an undergraduate and are working on a project (for example

your finals) which includes technical, engineering, management or social aspects of subjects in which the IEEE is concerned, write a report and take part in the Student Paper Contest; you can win up to \$300, and lots of appreciation.

For more details contact either your Student Branch Counselor, Student Activity Committee Chairman or write to IEEE Student Services, 455 Hoes Lane, PO Box 1331, Piscataway, New Jersey 08855-1331, USA, and ask for instructions. The Regional Student Paper Contest is held annually in the spring and papers submitted to it should be

sent before the end of the year to the Regional Student Activity Chairman, Mr. Dick C. Poortvliet, TNO Research Unit, Westeinde Hospital, EEG Dept., Lijnbaan 32, 2512 The Hague, The Netherlands. Depending on the size of your Branch there might first be a local Student Branch Paper Contest, since there are some limitations on the number of participants per Branch.

Region 8 Student Representative: Mr. Mikko Katajamäki, Dept of Electrical Engineering, Computer Laboratory, University of Oulu, SF-90570 Oulu, Finland. E-mail: mjk@steks.oulu.fi.

NOW IN PAPERBACK!!!!!!



Handbook of Human-Computer Interaction

Edited by **M. Helander**, State University of New York at Buffalo, U.S.A.

This Handbook is concerned with principles of human factors engineering for design of the human-computer interface. It is most useful to computer scientists, human factors engineers, designers and design engineers, cognitive scientists and experimental psychologists, systems engineers, managers and executives working with systems development.

Differences and Training (5 chapters). Applications of Computer Technology (6 chapters). Tools for Design and Evaluation (8 chapters). Artificial Intelligence (5 chapters). Psychological and Organizational Issues (5 chapters). Author Index (8,000 references). Subject Index (4,000 items).

Write to:

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Miscellany

- **Rapid Chapter Growth** At its meeting in May 1990 the RAB approved the formation of the following Region 8 Chapters: North Italy: Computer; Greece: Communications; Israel: Engineering Management; South Africa: Joint Chapter - Industrial Electronics, Power Engineering, Industry Applications, Power Electronics; Sweden: Electromagnetic Compatibility; Yugoslavia: Electron Devices.
- **The Benelux Student Branches** are holding a Transnational meeting in 1991. There will be: i) visits to Technical Universities and to major electronics companies ii) A 'Telematics' symposium iii) A Professional Awareness conference concerned with the acceptability of different Engineering Degrees in Europe iv) Cultural visits to Amsterdam, Rotterdam, Brussels, Leuven,

Gent and Brugge. Further details from: IEEE Student Branch Eindhoven University of Technology, Faculty of Electrical Engineering, EH1 1.28, PO Box 513, NL-56000 Eindhoven, The Netherlands. Fax: +31 40-448375, E-mail: restieeesb@he-tue5.BITNET

- **Wideband Digital Communications** International Symposium on Spread Spectrum Techniques, at Kings College, University of London - 25-26th September 1990; it will be preceded by tutorials on 24th September. There will be contributions from the US, Japan and several European countries. The symposium is being organised by the SP/COM Chapter of the UKRI Section in association with the IEE. Further details from: Prof. A.C.Davies, Department of Electronic & Electrical Engineering, King's

College, Strand, London, WC2A 2LS. Tel: +44 71 836-5454 Ext. 2441 or 2896; Fax: +44 71 836-4781.

- **IEEE Videotape Programmes** The IEEE Manager, Continuing Education is looking for someone in Europe to become a distributor for these Continuing Education Programmes. The tapes include videoconferences, short courses, home tutorials etc.. The preferred procedure would be for the IEEE to send master tapes to Europe (either standard) where they would be copied and distributed. Further details from: Dr. Robert G. Kahrman, IEEE Educational Activities Dept., 445 Hoes Lane, PO Box 1331, Piscataway NJ 08855 1331 U.S.A. Fax: +0101 201 981 1686.

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Editorial and Advertisement **DEADLINES**

15th January
1st April
1st July
1st October

TO:

The Editor, Region 8 News, "Sandstones", Crooksbury Road, Runfold, Farnham Surrey, England, GU10 1QB. Tel: +44 2518 2625. Fax: +44 2518 2625

Electronic Communication for IEEE Region 8

An Initial Investigation

By Dr. Albert T. Kündig (Region 8 Coordinator for Computer and Communications Support)

E-Mail Services Used in Region 8 There are at present no statistics available concerning the use of specific E-Mail services by IEEE members of Region 8. However, we may take into account the following:

(a) A considerable number of IEEE members are in academic and R & D establishments with close links to universities. On the other hand, many of these Institutions in Western Europe take part in R & D programmes sponsored by the European Community, which sponsors the adoption of international standards, e.g. CCIT X.400 for E-Mail and X.500 for directory services.

(b) As a consequence of (a), it may be assumed that the majority of Regional members using E-Mail are doing so according to one of the following modes:

i) *Access to X.400 type networks, either public or academic. Among the academic networks, the RARE pilot MHS and the COSINE project (part of EUREKA) merit special attention.*

ii) *Using EARN, the European leg of BITNET.*

iii) *Using uuwp on EUNET, the European leg of UUNET/U-SENET*

iv) *Using SMTP on nodes with access to the US INTERNET*

As there exist already a range of gateways, users are in practice free to use whatever service/network is (logically and physically) "nearest" them.

Specific IEEE use of E-Mail and Other Forms of Electronic Communication. The following uses may be discerned.

A) *Interpersonal mail on Section level by IEEE officials.*

B) *Bulletin board/data base services in the context of section and chapter activities.*

C) *Interpersonal mail on a Regional level for IEEE officials.*

D) *Interpersonal mail on an International level by IEEE officials in the context of activities such as Society affairs, BoD, RAB, TAB meetings etc.*

E) *Interpersonal mail on an International level by IEEE volunteers; e.g. Active as reviewers for IEEE publications, serving on standards working groups etc.*

F) *Interpersonal mail and file transfer for individuals submitting papers to IEEE publications.*

G) *Interpersonal mail, data base access and file transfer on an International level for Section/Regional communication with HQ and Field Services.*

It appears that (A, B, C, & E) should preferably be covered by services/networks available locally to the individuals involved and that neither central IEEE facilities nor special IEEE addresses need be used. For (D, F, & G) on the other hand, we welcome efforts by IEEE HQ and the RAB/TAB task force on E-Mail to set up specific IEEE services. These efforts should, however, take due account of the needs of extra-US Sections and of the political aspects, which are discussed later.

Compmail The pioneer work of the Computer Society in using electronic mail is fully recognised. Also, we share the opinion that a widely used service should be based on commercial products for reasons of reliability and availability. However, as Compmail is about to be replaced by a new solution, we are anxious to see this done by means which are compatible with the present worldwide E-Mail environment. Also, care should be taken to ensure that there is no duplication of effort if present plans result in the establishment of a node for the IEEE at or near Rutgers University.

Politics The IEEE is increasingly active in standardisation, many recent IEEE standards having been adopted by International bodies, e.g. In Local Area Networks. But there has been no IEEE progress in the electronic mail area, where it can be accepted that CCITT and ISO play the leading role. If the IEEE is to be regarded as a serious player in the standardisation arena, it would be wise if it were to use existing well accepted standards where they are already available. If this were done, the IEEE with its more than 300,000 members, would be both credible in standards activities and at the same time a forerunner in the use of International standards.

Recommendations

i) *IEEE HQ should have access to the Internet E-Mail service as planned.*

ii) *In Region 8, the prospective Regional Secretariat, as well as the secretariats at Section level, should be given access to the corresponding national academic and research networks.*

iii) *Volunteers should be encouraged to gain access to the E-mail services of their national academic and research networks.*

iv) *An addressing scheme should be devised to cover IEEE HQ and secretariats at Region and Section level.*

v) *Group communication should be supported using distribution lists (so that specific groups within the IEEE community could be addressed in an elegant manner). One should note however that this would need resources for management.*

vi) *A file server should be made available to be addressed by E-Mail and FTP. This server could allow for retrieval of important documents such as officer rosters, all types of forms, lists of publications etc.*

From the Regional Director

Report from the Meeting in Brussels of the IEEE Board of Directors and the Region 8 Committee

The BoD met on 10-11th May and the Region 8 Committee on 12-13th May. A large number of the BoD members took part as guests at the Saturday meeting of the Regional Committee. Short presentations were given by the President, the President-elect, the New Staff Director for Field Services, VP-RAB, VP-TAB and a few other BoD members.

The importance of increased participation by the non US regions was stressed, as was the need to focus more on the International aspects of our affairs. VP-TAB mentioned the plans for a TAB colloquium in Europe next year.

The Board of Directors also had the opportunity to establish contacts with the European Community, through a visit to the European Commission and through the participation of senior EC officers at an official BoD dinner. In his speech at this dinner Mr.

Carpenter, Director General of the EEC Directorate on Telecommunication, emphasised the importance of IEEE Standards Activities and looked forward to increased cooperation in the future.

Many thanks to the local organisers of the extensive and successful programme. The BoD considered the joint arrangements and local contacts on different levels to be very useful and a clear indication that similar meetings outside the U.S. should be planned for the future.

Transnational Committee

Mr. Derek Helps was invited to this meeting in his capacity as Secretary of EUREL and also as a senior officer of the IEE (past Secretary). The following are a few of the discussion items which will result in concrete proposals to TAB and RAB:

- Non-US member participation in Society Activities
- Society Membership Development in Regions 8, 9 and 10
- IEEE Services to be provided to members in developing areas.
- Local currency payment of IEEE dues and fees, especially the use of the Brussels office.
- IEEE Conference electronic bulletin board system.
- Joint IEEE/non-IEEE publications

Volunteer Structure

The Committee decided to present a full report to the BoD meeting in August. Before that presentation no public information will be given.

The Brussels Office

Part of the activity of the ad hoc committee was a visit to the Brussels office of the Computer Society. The final report of the committee was issued at the end of May; it strongly recommends that TAB takes an active part in the office, resulting in roughly doubling its present level of activity. TAB will consider the report at a meeting in June and will present

an action plan to the BoD meeting in August. In the report from the committee, very little is said about the possible participation from Region 8, but this option is kept open.

The pros and cons of Regional participation in the office were tentatively discussed in Brussels with VP-RAB and between officers of the Region 8 committee. It was decided that Professor Walter Proebster will arrange in early August a sub-committee to discuss this question; he will present his report to the next Region 8 Committee meeting.

Institution of Electrical Engineers (UK), and the IEEE

Directly after the Brussels meetings a few members of the BoD visited the IEE Head Office in London to discuss increased contact between IEE and IEEE. The discussions were very friendly and open, with the intention that concrete proposals for cooperation should be developed through further contacts. These proposals will be discussed in a follow-up meeting in about 9 months time. Examples of topics which were raised are:

- Publications: Joint marketing/distribution. The impact of electronic distribution.
- Conferences: Conference Scheduling to avoid conflicts. The problem of the proliferation of conferences.
- The Impact of Europe 92 on national organisations and their activities.

Membership Survey

The final report will be released to the BoD

in August. Several similar IEEE surveys have been undertaken previously, but this is the first to include members outside the USA. Replies were received from about 55% of those who received the questionnaire. In total about 9,000 replies were returned, divided more or less equally between US and non-US. A few results of interest to Region 8 are:

- 68% US and 94% non-US members want the IEEE to become an international organisation. The IEEE is at present considered to be an international organisation by 44% of the US and 61% of the non-US members.
- Technical publications and Spectrum are seen to be most important. Important also are education and association with other engineers. Least important are local meetings.
- More than 50% are interested in having access to electronic communication for technical publications. Of the non-US members, almost 50% indicated an interest in electronic communication of meeting schedules, submitting papers etc.
- Of the non-US members, 62% consider that more offices outside US would improve services. The primary benefits would be: More international/regional events (41%), Faster delivery of publications (37%), Easier membership applications/dues payment (14%).

Regional Director: Prof. Sven-Olof Öhrvik, Vinstavagen 20, S-16354 Spanga, Sweden.

France

By Dr. Francoise Vallée

The General Assembly of the France Section was held on 9th June in Paris. During this meeting a new Board was elected for the next three years. The Section Officers are as follows: Chairman: M. Belanger, Vice-chairman: M. Papo, Treasurer: M. Herry, Secretary: Mrs. F. Vallée.

Conferences In association with other Societies, the French Section of Region 8 is co-sponsoring the following Conferences:

- 10th International Conference on Conduction and Breakdown in Dielectric Liquids (Grenoble 10-14th September 1990) 10 ICDL c/o CNRS-LEMD, 166X, 38042 Grenoble Cedex, France. Tel: (33) 76 88 10 71, Fax: (33) 76 88 11 61.
- Parallel Computing in Engineering and Engineering Education (Paris 8-12th October 1990) Prof. A.C. Davies, City University, School of Engineering, Northampton Square, London EC1V 0BH. Tel: (44) 071 253 4399, Fax: (44) 071 490 0719.
- JINA 90' International Symposium on Antennas (Sophia-Antipolis 13-15th November 1990) Secrétariat JINA '90, CNET-PAB, Centre de la Turbie, 06320 La Turbie, France. Tel: Mr. Guiraud (33) 93 41 15 30, Mrs. Cerbon (33) 93 41 02 29, Fax: (33) 93 41 02 29.
- MULTIMEDIA '90, 3rd IEEE COMSOC International Multimedia Communications Workshop (Bordeaux 15-17th November 1990). J.P. Coudreuse, Technical Programme Chairman, Multimedia '90, CNET LAA/ATM, route de Trégastel, 22300 Lannion, France, Tel: (33) 96 05 31 89, Fax: (33) 96 05 29 03.
- JICABLE '91 Third International Conference on polymer insulated power cables (Paris-Versailles 3rd-8th March 1991) Secrétariat

Général JICABLE 91, SEE, 48 rue de la Procession 75015 Paris, Tel: (33) 1 45 67 70 70, Fax: (33) 1 40 65 92 29.

- SPS '91 Power from Space, Second International Symposium (Paris 10-12th April 1991) M. Lucien Deschamps - EDF/DER, 1 av. Charles de Gaulle, 92141 Clamart cedex, France. Tel: (33) 1 47 65 32 00, Fax: (33) 1 47 65 39 11.

We have pleasure in announcing that the following conference is in preparation: Annual I.E.E.E. Robotics and Automation Conference in Europe (Acropolis, May 1992)

Other French News Le chapitre Power, conjointement avec la S.E.E. Organise une journée d'étude: Conducteurs granulaires - Théories, caractéristiques et perspectives (Paris 10 octobre 1990). rens. auprès de M. Lucien Deschamps, EDF-DER, 1 avenue de Général de Gaulle, 92140 CLAMART, Tel: 47 65 32 00, fax: 47 65 32 51.

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

- Les réseaux de communication à wide band (par M. Jacques Ernest - 21 septembre 1990)
- L'électronique dans l'automobile (par M. J.L. Pommereau 16 octobre 1990)
- Magnétoscopes d'aujourd'hui et de demain (par M. Joseph Colineau - 6 novembre 1990).
- Les radars de surveillance du sol (par M. Hereé Tanter - 11 décembre 1990)

Ces conférences auront lieu à 17h, FIEE, 11 rue Hamelin, PARIS.



The 5th Jerusalem Conference on Information Technology The Technologies of the 90's



October 22-25, 1990, Jerusalem, Israel

Organized by: IPA — the Information Processing Association of Israel.

In cooperation with: ACM — Association for Computing Machinery, AFCET — Association Française pour la Cybernétique, Economique et Technique, IEEE Computer Society, IEEE Computer Society — the Israeli Chapter, IFIP — International Federation for Information Processing, and SIM — International Society for Information Management.

The 5th Jerusalem Conference on Information Technology (JCIT-5), like its four predecessors, will offer participants an excellent opportunity to combine a high-standard professional program with a visit to a fascinating country and with an opportunity to meet its professional computer community.

JCIT-5 is being held concurrently with the 25th Annual Conference of the Information Processing Association of Israel (IPA), and the 21st National Conference of the Israel Association of Systems Analysts. These events, which are accompanied by an extensive exhibition featuring software and hardware, attract some 5,000 participants each year.

The professional program of JCIT-5 is composed of one application and two technical tracks. Twenty countries will be represented in the program which will feature papers by leading invited speakers as well as contributed papers. In addition, professional visits to high-tech industries are being planned.

Computer Architecture and Software	AI, Theory and Databases	Applications of Information Technology
Tuesday, October 23		
Opening Ceremony and Keynote Address		
<ul style="list-style-type: none">• Very Large Memories• New Architectures• Special Purpose Computers	<ul style="list-style-type: none">• Artificial Intelligence I• Artificial Intelligence II• Artificial Intelligence III	<ul style="list-style-type: none">• Information Technology: Role and Prospects• Providing Value in Information Technology• Striving for Enterprise Excellence
Wednesday, October 24		
Panel Discussion: The Impact of the Soviet Immigration on Israel's Position as an International High-Tech Center		
<ul style="list-style-type: none">• Operating Systems I• Operating Systems II• Distributed Programming and Systems	<ul style="list-style-type: none">• Natural Language Processing• Foundations of Computer Science I• Foundations of Computer Science II	<ul style="list-style-type: none">• The Role of Copyright and Patent Protection in Fostering Innovative Computer Products• Computerized Management of Bibliographic Data• Computers in Education
Thursday, October 25		
<ul style="list-style-type: none">• Communications• Computer Aided Software Engineering• Software Engineering	<ul style="list-style-type: none">• Computer Languages• Databases I• Databases II	<ul style="list-style-type: none">• Image Processing - Theory and Practice• Issues and Opportunities in Intelligent Vehicle Highway• Reactive Systems
Plenary Session: Information Technology — Break-Throughs in the 90's		

JCIT-5 will include a rich and diversified social program enabling entertainment as well as interaction with Israeli colleagues. Participants will be able to experience the unique charms and attractions of Jerusalem; optional post-conference tours will enable them to visit some of Israel's premier tourist sites, an exciting blend of the ancient and modern.

For further information, please apply to: JCIT-5 Secretariat, c/o International Ltd., P.O. Box 29313, Tel-Aviv 64721, Israel, Tel: 972 3 4702538, Fax: 972 3 660604, Telex: 33554 INTUR IL, E-mail: Rodeh@IBM.COM

Chapter News from Switzerland

(Social Implications of Technology)

By Dr. Dieter Müller

The Chapter now has more than 40 members and meets at least six times a year. It operates as a working group and draws from five to twenty participants at its evening meetings, which are also open to anyone interested. The main purpose of the meetings is to create a stimulating environment for group discussion. Each year one or two controversial questions are selected by the attendees; these are studied and then presented at a special annual meeting. The main emphasis of the discussion has moved from energy related questions in the seventies and early eighties, to the impact of information technology, which is also the main topic for 1990. The following may give an idea of the activities of the Chapter during 1988/9.

The first half of 1988 was dedicated to parapsychology and its possible implications on technology and society; the theme has been the subject of dispute for more than a century. Our discussion showed that whilst many engineers have an interest in the unresolved questions of mind and matter, no one was involved in active research. After three meetings and some literature studies (a reference list can be provided on request) we arrived at a common understanding of the problem, although a proven theory to explain

the short term effects of parapsychology on either technology or on society, has yet to be demonstrated.

Waste Disposal and Recycling were the subjects for the second half of 1988; many urgent problems await a solution. Ecological considerations will have an increasing influence on the design of consumer goods and in the long term much more emphasis has to be placed on recycling as the only way to solve our energy and garbage problems. Unfortunately, stricter laws will be needed to enforce the design of products with more concern for ecology - on the free market, goods are purchased regardless of their impact on our environment.

In 1989 we considered matters associated with the influence of information technology on society. Our institutions are very vulnerable to the effects of malfunctioning equipment and to sabotage. Shall we be able to build fail safe systems or shall we have to learn to live with this danger? Dr. Rainer Rüppel of the Crypto Company give a very well received talk on the history and current knowledge of computer diseases (virus, worms etc.); everyone has by now heard of this sabotage issue. It is unlikely that these diseases will disappear; illness is an unavoidable side effect of complex systems.

At another meeting, Peter Schweizer presented his views on technological innovation; they are the fruits of teamwork and therefore very much dependent on the group's ability to resolve personal conflicts. He demonstrated with many case histories how these conflicts arise and how they may be resolved. A successful R & D manager needs a good deal of common sense in addition to his technical knowledge - all too often this obvious statement is forgotten by our educational system.

At the Annual Meeting, two members spoke on the current and future use of computers. Christian Sager gave lively examples of the rapid changes in our daily lives caused by technology which as a whole is not controllable; however, he showed how engineers can, by small steps, have a positive influence on our everyday lives. Subrata Sarkar explained some new developments in neural networks and computer animations; they illustrate the steady changes in information technology which have yet to show a definable effect on society in the nineties.

Chapter Organiser: Dr. Dieter Müller, Trümlenweg 30, CH -8630 Rüti, Switzerland.

President-elect Candidates

Dr. Edward C. Bertnolli

Dr. Bertolli was Professor of Electrical Engineering and Director of the University of Missouri-Rolla Engineering Centre. He has served as consultant to Emerson Electric Company, Allis Chalmers, Boeing and others in the US; and outside the US to ARAMCO in Saudi Arabia, INELEAC in Algeria, and Partners of the Americas in Brazil.

He believes that the IEEE should be managed according to the wishes of the members and has been instrumental in organising the 1990 Member Opinion Survey. He has worked to advance the well-being of US members in their education and careers, and has served on a number of IEEE Committees, including the Regional Activities Board.

Mr. T.W.Hissey

Mr. Hissey has held a number of posts with the Leeds & Northrup Family for some 40 years, and is now responsible for International Electric Power Network Automation projects. He is well acquainted with IEEE operations outside the US, where he has taken part in technical meetings and seminars with IEEE Sections and Chapters in over 30 countries.

He is a past-president of the IEEE Power Engineering Society and has held a number of high-ranking posts on IEEE administrative and technical committees. He is a member of the

Regional Activities Board and is dedicated to ensuring that non-US IEEE members are adequately represented on Boards and Committees; he plans to continue this work if elected to the Presidency.

Dr. Martha Sloan

Dr. Sloan received BSEE, MSEE and PhD from Stanford University in 1961, 1963 and 1973. She has worked at Palo Alto research laboratories of the Lockheed Missile and Space Company in Communications Research. Since that time she has been with the Department of Electrical Engineering at Michigan Technological University. She has published three textbooks and more than 50 technical papers and has been awarded a National Merit Scholarship, an IEEE Centennial Medal and the ASEE Frederick Emmons Terman Award Outstanding Young Electrical Engineering Educator.

In various posts and for varying times she has been a member of more than fifty IEEE Boards and Committees.

Mr. Merrill W. Buckley, Jr.

Mr. Buckley is an engineer, technical manager and educator. He received BSEE and MSEE degrees from the University of Pennsylvania. His early career at government laboratories was research in advanced radar technology and airborne systems design. His speciality is project management for complex electronic systems, having presented papers

and invited lectures in this field. He received the IEEE Centennial Medal and the Meritorious Achievement in Continuing Education. He is chairman of the Villanova University EE advisory committee and is a retired Naval Officer.

In various posts for varying times he has been a member of more than sixty IEEE Boards and Committees.

Dr. Edward A. Parrish Jr.

Dr. Parrish received BSEE, MEE and Sc.D. degrees from the University of Virginia. He joined Amerad Corporation as Senior Computer Programmer and Group Leader responsible for the development of computer graphics system software. He was a Research Associate with the Research Laboratories for the Engineering Sciences, University of Virginia, working on sampled-data models of SCR power systems. Dr. Parrish joined Vanderbilt as Centennial Professor of Electrical Engineering and Dean of the School of Engineering. His research interests include pattern recognition, image processing and computer engineering.

In various posts for varying times he has been a member of more than forty IEEE Boards and Committees.

The Editor regrets that from all five candidates only one photograph was received, of Dr. Hissey, and so in this egalitarian Society none has been printed.



3rd IFIP CONFERENCE ON HIGH SPEED NETWORKING

BERLIN 18-22 MARCH '91

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ESPRIT VLSI Design Action Lecturer Post

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The ESPRIT VLSI Design Action, in which Universidade de Aveiro is a full partner, is providing a lecturing post in VLSI. Duties of the post include the organisation of the VLSI design laboratory, supervision and coordination of the submission of designs for fabrication runs and the setting up of a course syllabus. The University will open an extra post at the junior lecturer level for someone who will work under the supervision of the person appointed to the ESPRIT post.

The Department has active research groups in the areas of Parallel Computer Architectures, Bio-medical Engineering, Computer Networks, Analog Electronics and Optical and Microwave Communications. The post is available immediately and its tenure is two years. However, applicants for a one year contract will be favourably considered. A Command of either English or French is required. The salary offered is at the top of the Portuguese University Professors scale.

Applicants are invited to send a C.V., including a list of references, to: Prof. António de Brito Ferrari, Departamento de Electrónica e Telecomunicações, Universidade de Aveiro, 3800 Aveiro, Portugal.



IECON '90

Sixteenth Annual Conference
IEEE Industrial Electronics Society



November 27-30, 1990

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Asilomar is in a beautiful setting by the sea adjacent to Monterey, California. Nearby attractions include an Aquarium, 17 mile drive, Hearst Castle and Golf Courses.

MICROWAVES IN MEDICINE '91

8 - 11 April 1991

Belgrade, Yugoslavia

Announcement and Call for Papers

This is the first international scientific meeting organised jointly by the IEEE Yugoslavia Section and the Institute of Microwave Techniques and Electronics (formerly the Institute of Applied Physics) and the Scientific Committee of Serbia

The Meeting will provide an international forum for the presentation and interchange of recent progress in the application of microwave technology in medicine (diagnostic and treatment equipment). It will also open discussion on microwave radiation hazards in medicine.

The Official Language will be English

Medical Applications of Microwave Fields
Microwave Radiation Hazards in Medical Practice
Microwave Radiation Protection and Safety Standards

Authors should submit 3 copies of a summary - not more than 300 words; it should be camera-ready and include the author's name and address and the Section in which it should be included. The deadline for the final manuscript is 15th January 1991.

Address for all correspondence: IMTEL - Institute of Microwave Techniques and Electronics, Microwaves in Medicine '91, Bulevar Lenjina 165b, P.P.Box 220, 11070 Belgrade, Yugoslavia. Tel: 30 (11) 135-420, Fax: 30 (11) 130-928.