

IEEE

Region 8 News

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Europe, Middle-east and Africa



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Continuing Education

By Kurt R. Richter

The newspapers, radio and television report increasing unemployment and bankruptcies, and decreasing job opportunities; problems which nowadays any of us might have to face. Losing one's job is a major concern everywhere and engineers are no exception. To increase the chance of keeping his job, or finding a new one, the engineer has to keep up with rapid developments in technology.

In Region 8, job uncertainty exists in both the highly industrialised countries and in the developing ones, particularly where industrial restructuring is demanded by political or economic change. Throughout our Region there will always be diverse needs for continuing education. The article by James H. Hahn gives a resumé of the continuing education programmes offered by the IEEE Educational Board; Jim and I serve on the Continuing Education Committee of that board.

Prof. Dr. Kurt R. Richter: Educational Activities: IGTE Technical University of Graz Austria. E-mail: k.richter@ieee.org

You Are Responsible For Your Own Career!

By James H. Hahn

Sound familiar? Everywhere you turn today, you hear the same refrain: "No one but you will look after your career; you cannot expect a lifetime job - only lifetime employment." It is clear that the time is past when the loyal employee works for the same company for 40 years, and in turn is taken care of by that company. That scenario has been changed by reducing the number of employees, introducing technology so as to permit the employment of a lower grade staff, sub-contracting and introducing short term employment contracts.

What is an engineer to do under these circumstances? Well, one of the most important things he can do for himself is to maintain his technical competence. Your prosperity, and that of your family, depends on the skills you bring to the market. The IEEE recognizes your need for continuing education and has taken a number of steps to assist you. One committee of the Educational Activities Board is devoted entirely to Continuing Education; here are some of the current projects supported by that committee in conjunction with the Institute's technical

societies, to help design long-life learning programmes.

- The preparation of plans for distance learning.
- Review and support new developments from the Educational Activities Board.
- Produce new video programmes.
- Assist in the development of electronic self study courses.
- Set up and maintain a web page on Continuing Education services
- Introduce new live seminar programmes
- Help develop career path profile (CD-ROM)

Does all this sound a little abstract? Then, how about some of the specific products of the Educational Activities Board? To take just a few examples, over the past few years, the Board has produced the following to assist members in life-long learning:

The IEEE Guides to Business: invaluable for the budding entrepreneur.

Self-study courses: some 20 in all - Power System fault calculations, Spread spectrum theory & applications, Mobile cellular Communications and many more.

Career Asset Manager: This unique guide illustrates a step-by-step process for defining your personal career goals, preparing a professional development plan and maintaining records which will enable you to produce quickly, a detailed resumé. With the mobile nature of today's engineering workforce, this guide promises to be a very handy tool.

In addition to these and similar products the IEEE sponsors workshops and seminars on engineering careers. For example, in 1996 alone, the society sponsored "A Best Practices Forum on Skills and Knowledge Assessment", "A Road Map to Engineering Careers" and "A Workshop on Personal Strategies for Technical Vitality".

And the list continues. There is something available from your IEEE to help YOUR career. To find out more, just call Peter Wiesner, Director of Continuing Education at + 908-562-5500 or E-mail p.wiesner@ieee.org. More information is available from the Educational Activities Board home page at <http://engine.ieee.org/eab/>

Jim Hahn, Outreach Coordinator, Continuing Education Committee, IEEE Educational Activities Board. Email: j.hahn@ieee.org

South Africa

By Professor Duncan C. Baker

Arrangements for two international conferences to be held in South Africa are in hand. These follow on from Region 8's successful AFRICON '96 conference. Both conferences are being organised as IEEE Society activities, in cooperation with local bodies.

ISIE '98 - 7-10th July 1998.

Arrangements for this conference are being finalised; more information will be published as soon as it is available

ISSSTA '98 - 2nd-4th September 1998.

The Fifth IEEE International Symposium on Spread Spectrum Techniques and Applications is planned for the Sun City Complex, approximately 140 km from Johannesburg and Pretoria. Topics include (but are not limited to) mobile and power line communications, diversity implementation, system design, adaptive antennas, theory, security, mobile satellite, navigation, multimedia, ranging and ASIC design. Five copies of full papers (double spaced and not published elsewhere) are to be submitted for evaluation by 5th January 1998 to Dr. P.G.W. van Rooyen, at the address below. Authors will be advised of acceptance by 1st April 1998. The deadline for camera ready originals is 1 June 1998.

More details can be obtained from Dr. P.G.W. van Rooyen, ISSSTA '98, Dept. of Electrical and Electronic Eng., University of Pretoria, 0002 Pretoria, South Africa. Other contact information is - Tel: +27 12 420 2291, Fax: +27 12 43 3254, E-mail: vroo-pg@fanella.ee.up.ac.za. WWW: <http://www/alcate-1.altron.co.za/~ISSSTA98/>

Section Chair: Dr. Petrie Meyer, E-mail: pmeyer@firga.sun.ac.za
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Russia

Dr. Boris Kapilevich

1997 IEEE-Russia conference: High-power Microwave Electronics: Measurements, Identification and Applications. Organised jointly by the MTT-S, ED-S, Systems TV Ltd., Microtech Co, Society of Radioelectronics and Communication (Russia).

Chairman: Dr. A.Vostrikov, Rector of NSTU, 20 K.Marx Prosp., Novosibirsk, Russia

Technical Chairmen: Dr. B.Kapilevich, Joint MTT/ED Chapter Chair. Tel: +7-3832-860943. E-mail: boris@neic.nsk.su Dr. V. Petrov, NSTU, 630092 20, K. Marx Prosp. Novosibirsk, Russia. Fax: +73832-460663.

Financial support for Students

Student members who attend an IEEE conference in 1997 may obtain a voucher that can be used to pay for their 1998 membership. Send the following to Dr. Levent Onural, Student Activities Chairman, Electrical Engineering Department, Bilkent University, TR-06533 Ankara, Turkey.

1. proof that you have paid the conference registration fee
2. Your membership number
3. Your postal address.

Session 1. Characterisation of high power microwave devices as non-linear n-ports.

Session 2. Microwave passive and active filters, and acoustics-electronic devices and systems.

Session 3. Microwave/EF: Industrial, Scientific and Medical Applications

Exhibits & Excursions

There will be booths and demonstrations of commercial products, computer hardware and software, and company capabilities in the areas of measurements, TV and medical techniques available. Excursions to Siberias Medical Research Centre, Microwave products manufacturers and Microwave Research Institutes.

Papers should be submitted in English or Russian, typed in camera-ready form, not more than 5 A4 pages. May 30th 1997: Submission of papers to the Conference Committee. June 30th 1997 acceptance Notifications.

August 10th 1997 - Advance Programme.

Saudi Arabia

By Dr. Hasan H. Al-Abdullatif

The Section will hold its 4th Annual Technical Exchange Meeting at KFUPM on 20th-21st May 1997. The theme of "Role of Engineering in Industrial Development" will include subjects such as: Industrial Training and Experience, Career Development, Communication Skills, Computers in Industry, Computer Networking, multi media and applications, communications, control of energy systems and power systems. Please address your correspondence to the address below. The Section has received some 50 papers from different firms, such as SCECO (East, Central, West), KFUPM, KSU, WASA, MODA, AEC, KACST, Saudi Aramco, Hadeed and many others. The Section wishes to thank all those contributors who devoted much of their time and effort to make sure that this event will be a success.

The Workshop on "Energy Conservation and Load Management" will be held in Riyadh on 6-7th May 1997 under the auspices of the Division of The Electrical & Electronic Engineering of the Engineering Committee, and in coordination with the King Abdulaziz City for Science & Technology, IEE and IEEE Saudi Arabia Section. This will be a technical forum that provides the participants with an opportunity to "network" and learn from each other, to increase their leadership skills and a working knowledge of energy issues.

Articles for Region 8 News

Articles for publication in Region 8 News may be submitted at any time; by letter, fax, or E-mail. They may deal with the past, the present or the future and you do not have to be a member of an IEEE committee. Don't worry about the grammar, spelling and syntax of the English language: I shall do my best to deal with that.

Editor

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France

By Professor Edwige Pissaloux

You can contact France Section Board members at the following addresses:

Christine Nora: Chairman- nora@poly.polytechnique.fr:
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Section Internet address is: <http://w3.u-picardie.fr/~cerin/ieee/>. You will find there the Section WEB Kiosque. We thank the Université of Amiens for its support of the Section.

Ch. Cerin, Computer Chapter chairman (c.cerin@ieeee.org or cerin@laria.u-picardie.fr) plans to organise, in 1997 or 1998, an international conference on "Computer use in 2000, and its effects on educational skills". He would appreciate help, comments, suggestions, on that topic from outside France. Please contact him for any question related to the projected conference, and/or if you want to receive the conference Calls.

OCEANS'97 MST/IEEE will be held in Halifax, Nova Scotia, Canada, 6-9th October 1997. Student Papers for the Programme/Competition will be welcomed. Deadline for Abstracts: April 15th, 1997. Inf: Rene Garello, rene.garello@enst-bretagne.fr

OCEANS'98 will be held in Nice, 28 September - 1 October 1998. Abstract deadline: February 6, 1998. Inf. Rene Garello, rene.garello@enst-bretagne.fr.

The ETW'97 will be held in Set, June 12-14th 97. Inf. Christophe Cerin: c.cerin@ieeee.org.

The COST 254 (Intelligent Processing and Facilities for Communications Terminals) will hold its Second European Workshop on "Emerging Techniques for Communications Terminals" in Toulouse, July 7-9th, 1997. It is co-sponsored by the SP Chapter and SEE Club 29. Abstract deadline: May 15. Inf. Prof. Francis Castanié, General Chair: ph. 33 (0)6 07 36 71 49 (cellular), or 33 (0)5 61 58 82 96 (phone/fax), castanie@len7.enseeiht.fr, f.castanie@ieeee.org, compuserve:@101562.3475@compuserve.com.

The Sixteenth GRETSI Symposium on Signal and Image Processing, which will be held in Grenoble, September 15-19th, 1997, is supported by the CNRS, Research and Educational Ministry and the France Section. Abstract deadline: February 1st 97. Inf. gretsi97@cephag.inpg.fr, Web: <http://www-gretsi97.cephag.inpg.fr>; phone, 33 (0)4 76 82 62 74; fax: 33 (0)4 76 82 63 84

.SDEMPED '97: International Symposium on Diagnostics for Electrical Machines, Power Electronics and Drives will be held on September on 1st-3rd 1997, in Carry-le-Rouet, France. The symposium is sponsored by the France Power Electronics Chapter, University of Picardie - Jules Verne, and co-sponsored by the PES and France Section. Inf. prof. Michel Poloujadoff, mpo@moka.ccr.jussieu.fr; phone: 33 01 44 27 41 15; fax: 33 01 44 27 44 38.

News In French

LES ANCIENS DE LA RADIO ET DE L'ELECTRONIQUE

vous invitent aux conférences suivantes.

- le 22 avril 1997, « Après la télévision haute définition, la télévision numérique » par Yves GUINET, ancien Directeur du C.C.E.T.T., Philips (cf. sa conférence du 29 mars 1989 sur « La T.V.H.D. »).

- le 20 mai 1997 « L'électronique et l'informatique dans la Banque - Les problèmes de sécurité associés » par Claude PORCHEROT, Directeur des filiales françaises de la B.N.P.

Les conférences ont lieu à 17 heures à la F.I.E.E., 17 rue Hamelin, 75 116 Paris, secrétariat: M. CRANTELLE ; elles sont suivies d'un pot amical.

Israel

By Anthony J. Weiss

The Israel Section has seen its membership jump 40% in the past few years, from 850 members in 1994 to its current head count of 1,200. This membership increase is attributed to an increasing interest in the IEEE among Israeli engineers. The industry in Israel is growing very fast, and engineers feel that they cannot afford to stay behind and miss new developments. The importance of IEEE standards is becoming very clear, and many are interested in becoming familiar with the standards before they are finalized.

The theme of this year's conference was "Strengthening the relationship between Industry and Academia"; a relationship especially important in a country filled with high-tech start-ups pushing forward with new ideas and new technology. The conference attracted about 550 participants from 12 different countries. Many showed an interest in the exhibition and the job fair that were associated with the conference.

In 1954, only six years after the state of Israel was founded, the Israel Section was established by a group of electrical engineers and scientists from the Technion-Israel Institute of Technology in Haifa. The section currently has 16 active chapters, including Electronics in Medicine and Biology, whose formation was announced at the conference. The section programme includes an annual general assembly, elections in every even and a major biannual conference. All the chapters hold technical meetings quite frequently. The section's next large project is MELECON, which will take place in May 1998 in Tel Aviv.

The Section's programme is published on the its web site (<http://www.eng.tau.ac.il/~ajw/ieeee.html>) and in the section newsletter. In order to maintain all its activities the section keeps an office within the faculty of engineering, Tel Aviv University. Tel: +972 3 640 7092 FAX: +972 3 640 7095 e-mail: ella@eng.tau.ac.il

Section Chairman: Dr. Anthony Weiss, Dept of Elec. Eng. Systems, Tel-Aviv University, 69978. Tel: +972 3 640 7460. Fax: +972 3 640 7095. E-mail: tony@eng.tau.ac.il

Mr. Jacques Kevers of the Brussels Office may be contacted at: 13, Avenue de l'Aquilon, Brussels, B-1200, Belgium.
Fax: +33 3 2770 8505
E-mail: memservice.europe@ieeee.org

Twente, Netherlands 14-15 October 97

Communications & Vehicular Technology

Prof.dr.ir. Wim C.van Etten, University of Twent, Faculty of Electrical Engineering INF 5061, PO Box 217, 7500 AE Enschede, Netherlands
Tel: +31-53 4893872/3856. Fax: etten@cs.utwent.nl

Stuttgart, Germany 1-3 April 1998

IFIP TC6 4th International Conference Broadband Communications 98

Prof.Dr.-Ing. Dr.h.c. P.J.Kuhn, Univ of Stuttgart, Pfaffenwaldring 47
D-70569 Stuttgart, Germany. Tel: +39 071 121-2479
Home page: <http://www.ind.uni-stuttgart.de/IND/BC98>

Technische Universität Graz Graz, Austria

An der Fakultät für Elektrotechnik und Informationstechnik der Technischen Universität Graz ist ab 1.3.1998 die Planstelle eines/r Ordentlichen Universitätsprofessors/in für *Elektrische Meßtechnik und Meßsignalverarbeitung* (Nachfolge O. Univ. Prof. Dr. H. Weiß) wiederzubesetzen. Die zu berufende Persönlichkeit soll das Fach Elektrische Meßtechnik und Meßsignalverarbeitung in Lehre und Forschung vertreten.

Entsprechend der Satzung der Technischen Universität Graz sind für das Institut für Elektrische Meßtechnik und Meßsignalverarbeitung folgende Aufgaben in Lehre und Forschung vorgesehen: Einführung in die Elektrische Meßtechnik; Messung elektrischer Größen und elektrische Messung nichtelektrischer Größen; analoge und digitale Meßsignalverarbeitung.

Forschungsschwerpunkte wie z.B. laseroptische Systeme, Sensorik, Einsatz von Signalprozessoren bzw. nichtlineare Meßsignalverarbeitung kommen den Vorstellungen der Fakultät entgegen. Es wird erwartet, daß die zu berufende Person eine mehrjährige Forschungstätigkeit in verantwortlicher Position auf mindestens einem der oben aufgeführten Gebiete aufweist.

Voraussetzung für die Bewerbung ist eine der Verwendung entsprechende abgeschlossene inländische oder gleichwertige ausländische Hochschulbildung (Doktorat) sowie eine an einer österreichischen Universität erworbene oder gleichwertige ausländische Lehrbefugnis oder eine der Lehrbefugnis als Universitätsdozent gleichzuwertende wissenschaftliche Befähigung für das Fach, das der zu besetzenden Planstelle entspricht, und der Nachweis der pädagogischen Eignung.

Die Technische Universität Graz strebt einen höheren Anteil von Frauen im wissenschaftlichen Bereich an und ermutigt qualifizierte Akademikerinnen nachdrücklich, sich zu bewerben. Bei gleicher Qualifikation werden Frauen bevorzugt aufgenommen.

Bewerbungen müssen mit den üblichen Unterlagen, insbesondere einer Darstellung der bisherigen Tätigkeit, einer Liste der wissenschaftlichen Veröffentlichungen sowie der sonstigen wissenschaftlichen Arbeiten bis zum 18.6.1997 bei dem Dekan der Fakultät für Elektrotechnik und Informationstechnik der Technischen Universität Graz, Kopernikusgasse 24, A-8010 Graz eingelangt sein.

The Web site address of the Region 8 home page is
<http://www.ee.bilkent.edu.tr:8080> Enquiries to:
INTERNET:altintas@ee.bilkent.edu.tr



afcet

Von Neumann Day

Biological inspiration in computer science
40 years from the death of John von Neumann

Lausanne
(Switzerland)
July 25th, 1997

This day will remember John von Neumann's contributions to bio-inspired computer science. With the assistance of international specialists in the field, and notably of Dr. Christopher Langton of the Santa Fe Institute (USA), we will try to determine the progress of John von Neumann's dream: what have we achieved in the field of self-reproducing computing machines?

Refer to the WWW pages at:

<http://lslwww.epfl.ch/neumann>

Contact person:

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ANNOUNCEMENT

"Analysis and Design of Resonant and Softswitching PWM Converters and Power Factor Correction Circuits"

By Prof. Dr. Fred Lee of Virginia Power Electronics Center and
Dr. Milan Jovanovic of Delta Power Electronics in English.

DATE: 02. - 06. June, 1997

VENUE: Rosenheim/Germany

For details please contact Mrs. Raschbichler, Tel. +49/8031-217515;
Fax +49/8031-217530, Email: thomatronik@t-online.de
or visit our home page www.thomatronik.de

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