



region8news

The Institute of Electrical and Electronics Engineers, Inc. 445 Hoes Lane Piscataway, NJ 08855

<http://www.ewh.ieee.org/reg/8/>

<http://www.ieee.org/regional/r8/>

From the Regional Director

Welcome to the year 2000! My best wishes to all of you for a happy, healthy and successful New Year. I look forward to continuing with your good cooperation, and to many new IEEE R8 activities during the second year of my term.

November Board Meeting

The year ended with passionate debates on the New Financial Model (NFM) and the Branding issue during the last Board of Directors Meeting (see also earlier reports).

- ♦ The NFM did not pass for several reasons. Simply put, RAB was not aware of the impact of the NFM on its geographical entities following the proposed elimination of allocations, and TAB did not accept its new role as the cash cow for most IEEE infrastructure cost. A new committee with representation from all boards will have to work on a revised NFM proposal.
- ♦ The new "Positioning Statement" proposed by the Branding Committee was unanimously approved by the Board.
- ♦ The new "Brand Identity" passed as a compromise. The Board approved, that



Region 8 Director, Dr. Rolf Remshardt (left) receiving a certificate from Dr. Samir Al-Baiyat, Saudi Arabia East Chair, in appreciation of his lecture during his meeting with the Section.

"a distinctive master brand, namely the current logo followed by the letters IEEE has to be displayed in a bold, prominent form to represent the unity of IEEE." The implementation was deferred until all details have been worked out. The complete wording can be seen in the IEEE Website.

Region 8 Achievements

Let me briefly summarise our most important events and activities during the second half of the past year.

- ♦ The 99 Div I-IV R8 Chapter Meeting, held on Sept. 12 in Leuven, Belgium, was as big a success as in previous years. Together with the Division Directors I attended the meeting, which represented a total of 48 R8 Chapters from 9 different societies. This was good motivation for our planned new Div IX R8 Chapter meeting.
- ♦ The 99 R8 Student Paper Contest was held in Bled on July 13 as part of the ISIE 99 Conference. I attended the oral presentations and was impressed by the high quality of the papers and the excellent local arrangements (see also Nov. '99 R8 News). On this occasion, I made a short visit to both the Austria and Slovenia Section.
- ♦ AFRICON99 was again held in South Africa, and attracted over 300 participants to Capetown. Past Director M. Papo, who attended the conference, reported on the high quality of the papers and the outstanding local arrangements. An IEEE Historical Milestone was celebrated during AFRICON (see separate report in this issue).
- ♦ The 73rd R8 Committee Meeting took place in Minneapolis, USA in conjunction with Sections Congress 99 (SC 99).

We had a record attendance, since most Section Chairs and additional deputies were able to participate at SC 99. The R8 Committee arrived well prepared and delivered the results from our workshops as valuable inputs to SC 99.

- ♦ The R8 Help Desk has been established. Its members are listed in the Nov. 99 Newsletter as well as in our R8 Home page. Please inform your friends and colleagues and contact the Desk in case of any problems.
- ♦ A new Section was formed in Jordan and approved at the November Board meeting. Congratulations to the organizer, Prof. M. Khedher, and to all members. We look

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Regional Director *continued*

forward to a productive cooperation and many activities in the new Section.

- ♦ My last visit this year was to the Saudi Arabia and UAE Sections. I visited King Fahd University of Petroleum and Minerals (KFUPM) in Dhahran, Saudi Arabia, made presentations to students, faculty members, Section officers and members from industry. I also attended the "GCC Section" meeting with the Chairs from Kuwait and Saudi Arabia Section, Section officers, members from Bahrain and other neighbors. The Gulf Cooperation Council (GCC) is an official body, which promotes and coordinates cooperation between the Gulf States. The formation of new student branches and chapters, a student contest and/or student conference rotating between the GCC countries was planned. Bahrain is working towards a sub-or full section. On April 18-19, 2000 the annual "IEEE Technical Exchange Meeting is to be held at KFUPM in Dhahran. Past President Ken Laker will attend the conference and R8 lecturers and participants will also be welcome. I had the opportunity to visit SCECO, the largest local Electricity Company as well as SAUDI ARAMCO, the largest Petroleum Company in this area.
- ♦ The second part of my visit was dedicated to the UAE Section in Dubai. Besides useful meetings with the UAE Section Chair and his officers, I gave an IEEE presentation to UAE Section members, representatives from the UAE Society of Engineers, and students and faculty members from the American University of Sharjah. I also met with two IEEE volunteers from Muscat, Sultanate of Oman. They are planning to form a section and new chapter in Oman. The Sultan Quaboos University in Muscat will hold "ICCCP 2001" (International Conference on Communications, Computer and Power) on Jan 14-16, 2001 with technical cosponsorship from IEEE and IEE. Papers and participants are welcome.

Elections

During November 99 several elections for new IEEE officers took place. The most

important ones are listed below:

- ♦ Our R8 membership elected Prof. Levent Onural as 2000 Director-Elect and R8 Director for 2001/2.
- ♦ At the last RAB meeting, Dr. Gozde Bozdagi was elected VC RAB Student Activities. She will be Levent's successor and responsible for student activities worldwide. Prof. Duncan Baker was elected to serve on the Nominations and Appointments Committee of RAB.
- ♦ At the October Meeting, the R8 Committee elected Prof. C.W. Turner as R8 Secretary and Prof. H.J. Schmitt as R8 Treasurer. The Committee further voted for Prof. K. Richter R8 VC Technical Activities, for Prof. A. Schwab R8 VC Membership Activities, and for Dr. Gozde Bozdagi R8 VC Student Activities.

Our sincere congratulations and best wishes for much success to all elected volunteers.

Awards and Recognitions

- ♦ Basil Osborne, past Director and R8 Secretary for many years is recipient of the "99 RAB Leadership Award" for his contributions "to the successful and smooth functioning of the R8 Committee in the period from 1985 - 1999".
- ♦ Robert C. (Bob) Winton, our Honorary Member and "R8 Memory" received a plaque in "recognition and appreciation for his outstanding services to Region 8 from 1973 - 1999."

Our sincere congratulations to both dedicated volunteers.

2000 Plans and Activities

As of today the following major R8 activities and events are planned for the year 2000. The period of May - June will be our busiest time in 2000.

- ♦ During the week of May 15 2000 our most active Student Branch Eindhoven, Netherlands will organize the second R8

Student Branch Congress (SBC). All R8 Student Branch Chairs will receive an invitation and we expect all of them to come. This is the most important event for our students and I urge all Section Chairs to support and motivate their branches for participation.

- ♦ Our important R8 Student Paper Contest is already being planned. The competition will be held either at MELECON in Cyprus, 29-31 May 2000, or at ICASSP in Istanbul, 5-9 June 2000. Information will be made available on the Region 8 Homepage, or in the May 2000 issue of the Region 8 News, if appropriate.
- ♦ The Norway Section will host the 74th R8 Committee Meeting from 19 to 21 May 2000 in Oslo.
- ♦ MELECON 2000 will take place in Limassol, Cyprus from 29 to 31 May 2000. We are expecting high attendance and high quality papers.
- ♦ The new Div IX R8 Chapter Meeting with the SP Society as major sponsor is planned for June 4 in Istanbul together with ICASSP 2000 from 5 to 9 June 2000. This is a new R8 initiative, similar to the Div I-IV meeting. R8 is inviting all R8 Chapter Chairs from Div IX societies to attend. Information is available from Prof. A. Davies and Dr. G. Mollova.
- ♦ The Interdisciplinary Conference on "Electrical, Electronics and Computer Engineering Education in the Third Millennium" (ICEECE 2000) will be held in cooperation with the Engineering Foundation from 10 to 15 September 2000 in Davos, Switzerland. This is a new initiative and we are going to invite peers from industry and academia to participate in this event.
- ♦ The Div I-IV R8 Chapter Meeting will be hosted on 1 Oct. 2000 by the European Microwave Conference in Paris, France.

P.S. Don't forget to "click" on our R8 Homepage! ♦

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News from the Sections

Poland

By Professor Zbigniew H. Czyz

Chapter Chairs' Meeting in the IEEE Poland Section

Following a similar event in the Autumn of 1998, the second Chapter Chairs Meeting of the IEEE Poland Section took place at the Warsaw University of Technology in Warsaw, Poland, on 16 November 1999.

Altogether 14 Chapters are active inside the Poland Section. Among them there are 6 Chapters operating abroad: 5 in Belarus, and 1 in Lithuania. They formally belong to the Poland Section because, in those countries, national IEEE Sections have not been founded as yet. Their representatives also have been invited to Poland, similarly as in the previous year, and five of them did attend the Meeting.

Chapter Chairs, or their representatives, reported about their Chapter activities, organized seminars and technical conferences, and local problems. Discussion focused mainly on four topics:

- ♦ enhancing of technical activity,
- ♦ enlarging the number of Chapters and chapter members,

- ♦ membership grade elevations, and
- ♦ involving more Student Members to the IEEE activities and formation of more Student Branches at different university centers.

After the Meeting, discussions were continued during the lunch at the Warsaw University of Technology and afterwards, during the dinner given at the restaurant of the Warsaw Old City Market. The Meeting has enjoyed good reception by all participants.

It should be stressed that a fruitful activity of IEEE members in Belarus resulted in the formation of 2 new Chapters during the last year, organization or coorganization of 11 Technical Conferences, 8 invited lectures, and numerous Technical Meetings. Some conferences were organized in cooperation with Lithuanian and Russian Chapters. Similarly ambitious plans have been envisaged for the next year.

Also in Poland Chapters are planning vigorous activities. As an example may serve the International Microwave Conference MIKON 2000 planned by the AP/AES/MTT Joint Chapter in Wrocław, Poland, for May 20 -24, 2000. More details

about that Conference can be found in the IEEE-MTT Newsletter No. 152 (Summer 1999) pp. 35 - 38.

Section Chairman: Professor Ryszard S. Jachowicz, Tel: +48-22-660-7848, E-mail: rsjach@ise.pw.edu.pl, Fax: +48-22-825-2300.

Welcome Jordan

The formation of the IEEE Jordan Section was approved at the November IEEE Board series held in Snowbird, near Salt Lake City in Utah. The petition had been submitted with the signatures of 52 IEEE members from Jordan. There are approximately 205 members in the Section (compared to 115 members in 1997). The effective date of this Section formation is 12 November 1999. The Interim Chair is Professor M. Z. M. Khedher (Khedher@fet.ju.edu.jo). ♦

UKRI

The UKRI AGM will be held at King's College London, Thursday 15th March 2000 at 5pm. Details of the speaker will be given in the UKRI annual newsletter in February.

Society and Chapter News

Austria/Croatia/Czechoslovakia/Hungary/Slovenia

An Engineering Management Society joint Chapter of the Austria/Croatia/Czechoslovakia/Hungary/Slovenia Sections has been formed. The effective date of this Chapter formation is 20 September 1999.

Dr. Kopacek is the Interim Chapter Chair. His e-mail address is bernd.kopacek@ihrt.tu.wien.ac.at

Germany

A Signal Processing Society Chapter of the Germany Section has been formed. The effective date of this Chapter formation is 20 September 1999. Dr. Unbehauen is the Interim Chapter Chair. His e-mail address is unbehauen@late.e-technik.uni-erlangen.de.

The Solid State Circuits Society Chapter of the Germany Section has been

formed. The effective date of this Chapter formation is 19 November 1999. The Interim Chair is Holger Blume (blume@eecs.rwth-aachen.de).

Bulgaria

The Circuits and Systems Society Chapter of the Bulgaria Section has changed status to include the Solid State Circuits Society. The effective date of this Chapter change is 26 October 1999. Valeri Mladenov (vmldn@vmei.acad.bg) remains the Chapter Chair.

UKRI

The Solid State Circuits Society Chapter of the United Kingdom and Republic of Ireland Section (Scotland) has been formed. The effective date of this Chapter formation is 28 October 1999. The Interim Chapter Chair is Mr. Jim Brown (jbrown@cadence.com).

The Engineering Management Society Chapter of the United Kingdom and Republic of Ireland Section has been formed. The effective date of this Chapter formation is 19 November 1999. The Interim Chair is Charles W. Turner (c.turner@ieee.org)

Russia

The Power Engineering Society Chapter of the Russia Section (St. Petersburg) has changed status to include the Aerospace and Electronic Systems, Computer, and Electromagnetic Compatibility Societies. The effective date of this Chapter change is 2 November 1999. The Interim Chair is Alexandre G. Mikerov (mick@emt.etu.spb.ru).

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Society and Chapter News *continued*

The Lasers and Electro-Optics Society Chapter of the Russia Section (St. Petersburg) has been formed. The effective date of this Chapter formation is 2 November 1999. The Interim Chair is Efim L. Portnoi (efim.portnoi@pop.ioffe.rssi.ru).

Turkey

The Lasers and Electro-Optics Society Chapter of the Turkey Section has been formed. The effective date of this Chapter formation is 2 November 1999. The Interim Chair is Alphan Sennaroglu (asennar@ku.edu.tr).

Poland

The Solid State Circuits Society Chapter of the Poland Section (Minsk Belarus) has been formed. The effective date of this Chapter formation is 15 November 1999. The Interim Chair is Stephan G. Mulyarchik (rfe@rfe.bsu.unibel.by).

E-mail address correction for Tony Davies

Please note that Tony Davies' correct e-mail address is tonydavis@ieee.org. He is the Region 8 Chapter Coordinator.

Important reminder - Annual reports

Officers in Sections and Chapters are reminded to file their Annual reports, including finances, by the deadline in February to Piscataway and locally. Help is available for the completion of the reports, if needed, from Charles Turner (c.turner@ieee.org). ♦

IEEE ANTENNAS AND PROPAGATION SOCIETY UNDERGRADUATE SCHOLARSHIPS FOR 2000

The IEEE Antennas and Propagation Society will award eight undergraduate scholarships of \$1000USD each annually. These awards will encourage and motivate promising undergraduate students worldwide to pursue a career/graduate program in electromagnetics and related fields.

Eligibility

- ♦ Undergraduate students in electrical engineering or related field.
- ♦ Must have taken at least one electromagnetics course.
- ♦ Show strong interest in a career or graduate education in electromagnetics, microwaves, antenna engineering or a closely related area.
- ♦ Endorsement of a faculty member who is a member of the IEEE Antennas and Propagation Society.
- ♦ Previous winners will not be eligible for a second award.
- ♦ Scholarship awardees are expected to provide a short report in April 2001 describing how the scholarship benefited them.

Selection Criteria

- ♦ Merit of the candidate's proposal.
- ♦ Academic merit of the candidate.
- ♦ Recommendation of the faculty sponsor.
- ♦ The primary criterion will be how the proposal will help the student begin a career/graduate program in electromagnetics or related areas.

- ♦ Research or senior projects in electromagnetics with potential student publication/presentation in a conference will be preferred.

Application Material (in English)

- ♦ A current transcript (with English translations) showing the list of courses taken and grades.
- ♦ A one-page curriculum vita.
- ♦ A two-page proposal explaining how the scholarship will benefit the candidate's proposed career in an Electromagnetics-related field.
- ♦ Two letters of reference from faculty who are familiar with the candidate's studies. One of those must be an endorsement from a faculty who is a member of the IEEE Antennas and Propagation Society.

All the application material must be received no later than April 30, 2000. Successful candidates will be announced in July 2000 and will receive the award within sixty days of announcement.

Send application material to:
Professor S. R. Rengarajan, Chair
AP-S Education Committee
Electrical and Computer Engineering
California State University
Northridge, CA 91330-8346 USA

Awards

On behalf of all of Region 8 we congratulate the following for their achievements.

MTT-S Award

The Microwave Theory and Techniques Society of the IEEE awarded Professor Ingo Wolff for his scientific work in Computer-Aided Design and the application of electro-

magnetic field theory to microwave components and circuits during the last ten years. At the same time, the newly created award was in recognition of the long time service Professor Wolff delivered to the members of the IEEE MTT-S.

Professor Wolff holds the chair of Electromagnetic Field Theory at the Duisburg University in Duisburg, Germany. For more

than thirty years, his scientific interest is in the field of any kind of application of electromagnetic field theory to microwave and communication problems. He published more than 350 scientific papers in international journals (about 100 in the IEEE Transactions) and in scientific conferences. Main aspects of his scientific work are: Numerical methods for electromagnetic field simulation, planar microwave



Prof. I. Wolff (right) accepts his MTT Certificate of Recognition from Prof. A. Beyer.

components and circuits, especially coplanar microwave integrated circuits, planar antennas and all aspects of electromagnetic compatibility.

Since 1974, Professor Wolff has been a member of the editorial board of the IEEE Transactions on Microwave Theory and Techniques, since 1985 he is member of the MTT-S Committee 15 on field theory. From 1992 to 1998 he was co-chairman of the MTT-S Committee 1 on Computer-Aided Design and since 1990 he is a member of the Technical Program Committee (TPC) of the International Microwave Symposium (IMS).

Professor Wolff is currently president (rector) of the Gerhard-Mercator-University in Duisburg, Germany. Besides this job, he is director of the Institute of Mobile and Satellite Telecommunications (IMST) in Kamp-Lintfort, Germany, a private research institute with about 100 staff members working together with industries in almost all the aspects of modern communication techniques.

Due to his activities as president of the university, Professor Wolff was not able to attend the last MTT-S Symposium in June 1999, so he could not receive the award personally during the award dinner. Professor Adalbert Beyer, the IEEE director for Europe, Africa, Near-East and Russia handed it to Professor Wolff at the University of Duisburg. In the name of the MTT-S president Dr Rezek and in the name of the award committee chairman Dr. Staecker, Professor Beyer submitted the award. Professor Wolff responded gratefully and expressed his sincere hope to keep up close connections to the MTT-Society and to the scientific work and life despite his new activities as university president

IEEE Edison Medal

The IEEE Edison Medal was awarded to Kees A Schouhamer Immink, IEEE Fellow

and Adjunct Professor at the Institute for Experimental Mathematics at Essen in Germany - "For a career of creative contributions to the technologies of digital video, audio and data recording."

OES Distinguished Service Award

The Oceanic Engineering Society Distinguished Service Award was made to Mr. Pierre Sabbathé for his dedicated service in support of the Society.

Pierre Sabbathé (M'92) is an Ingenieur de l'Armement graduate from Ecole Polytechnique, Paris in 1951 (Promotion 1948) and Post Graduate from Ecole Nationale Supérieure du Génie Maritime, Paris in 1953, now Ecole Nationale Supérieure des Techniques Avancées (ENSTA).

Pierre was elected to the OES AdCom in 1995, and re-elected in 1998. In 1996 he was elected to the AdCom to be Vice-President International, and again re-elected in 1998. During his term in Office, he undertook the responsibility of General Chair for OCEANS 94 OSATES, held in Brest, France, and General Co-Chair for OCEANS 98 Held in Nice, France. OCEANS 94 OSATES was the first time OES conducted a conference outside of North America. Because of Pierre's dedication and involvement and for the guidance he presented to the conference committee, both these OCEANS conferences were very successful. OES needed a person with Pierre's qualities to span distance, culture and language.

Pierre has devoted his life on or in the oceans. From 1953-1960 he was the deputy Director for the Sonar Laboratory, French navy, DCAN Toulon. From 1961-1966 he was Head of Sonar Section, French navy, STCAN, Paris. During the period 1967-1976, Pierre was Executive Vice President in the French company, L'Electronique Appliquée in Paris. In 1977, Pierre started his Thomson-CSF involvement through

many challenging positions and many name changes for Thomson. Specifically he was Director ASW Systems of Underwater Activities Division of Thomson-CSF from 1977-1984. In 1985 he became the Vice President of Strategy, Marketing and Long Term Development for Thomson Sintra ASM until he retired in 1992. Thomson Sintra ASM is now a major part of Thomson Marconi Sonar, the European leader in ASW.

In retirement, Pierre continued his involvement by teaching sonar at two leading engineering graduate schools, and has been very involved with IEEE/OES. Pierre has received the prestigious Chevalier de la Légion d'Honneur medal.

Notes taken from the OCEANS '99 Distinguished Awards Programme.

2000 IEEE Alexander Graham Bell Medal

The 2000 IEEE Alexander Graham Bell Medal has been awarded to Vladimir A. Kotelnikov (LF'IEEE), Academician and Presidium Member, Russian Academy of Sciences, and Director Emeritus, Institute of Radio Engineering and Electronics of the Russian Academy of Sciences, Moscow, Russia, "for fundamental contributions to signal theory."

RAB Leadership Award

The outgoing Secretary of Region 8 Basil Osborne has been awarded a "RAB Leadership Award" for 1999 for his outstanding services and valuable contributions to Region 8 over many years.

Corporate Innovation Recognition

A Corporate Innovation Recognition for 1999 was granted to NOKIA Corporation, Espoo, Finland, "For creation of a new class of integrated communication devices as exemplified by the NOKIA 9000 Communicator, and for leadership in the development of cellular network systems.. ♦

News From IEEE

New Award/Call for Nominations

The IEEE Awards Board has issued a call for nominations for a new award, the IEEE Dennis J. Picard Medal for Radar Technologies and Applications. This

award, which will consist of a gold medal, certificate and US\$20,000, will be presented for outstanding accomplishments in advancing the fields of radar technologies to an individual or group of

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up to three individuals. Sponsored by Raytheon, it will be presented for the first time in 2000. The deadline for submission of nominations is 15 Oct. 1999. At its November meeting, the IEEE Board of Directors is expected to announce the official establishment of the award, as recommended by the IEEE Executive Committee, as well as confirmation of sponsorship by Raytheon Company.

For further information, visit the Awards Web site at www.ieee.org/about/awards or contact the IEEE Awards/Fellow Activities, 445 Hoes Lane, Piscataway, NJ USA 08855-1331, telephone: +1.732. 562.3840; fax: +1.732.981.9019, e-mail: awards@ieee.org.

The IEEE LEADERSHIP WIRE
10 September 1999
Vol. IV, No. 17

IEEE Sections Congress '99 Most Successful Yet

IEEE Sections Congress '99, held 8-11 Oct., in Minneapolis, Minnesota, USA featured 120 speakers at 96 sessions on 61 topics, as well as 10 Subject Caucuses and 10 Region Caucuses. Hosted by the IEEE Twin Cities Section, 73 staff members, 582 delegates and 82 partners attended. Of the delegates, 250 were primary delegates, representing 297 Sections. There were delegates from 263 Sections present. Also, there were 20 exhibits displaying IEEE products and services.

"I was told by some that it was the best run IEEE conference that they had ever attended, and I wholeheartedly agree with that assessment," said Dan Benigni, V.P. IEEE Regional Activities.

The delegates from the 10 Regions submitted 40 recommendations voted on during the closing ceremonies. These results were delivered to the IEEE Board of Directors for assignment and action. The complete set of SC'99 recommendations can be found at <http://www.ieee.org/sc99>.

The members of the SC '99 organizing Committee were Alicja Ellis, Chair; Daniel Hoolihan, Vice Chair; Howard Wolfman, Program Committee Chair; Dan Benigni, V.P., RAB; and Cecelia Jankowski, Managing Director, Regional Activities.

IEEE Sections Congress 2002 will be hosted by the IEEE Washington, D.C. Section.

The IEEE LEADERSHIP WIRE
22 Oct. 1999
Vol. IV, No. 19

Do Tell...

Does your Region have an award for the most active Section? Does your Section have an award for the most active Chapter? If so, we would love to hear about it. What type of awards? How and when are they presented? Please send the details to Tracy Hawkins in Section/Chapter Support, phone +1 732 562 5512, e-mail t.hawkins@ieee.org

IEEE Scoop
October 1999

GOLD Nuggets

Does your Section have an active program in place to reach out to recent graduates (also known as GOLD Graduates of the Last Decade)? Here are some tools that are available to help to develop, expand or support your existing program:

- To increase awareness of the IEEE GOLD Program, Regional Activities has developed a GOLD tabletop exhibit for use at Region, Section or Chapter meetings, student branch activities and technical conferences. The exhibit displays printed information on GOLD activities and related IEEE programs.
- The GOLD brochure has been redesigned for 2000. This valuable awareness tool will be sent to Regional meetings and selected conferences and is also available upon request. The brochure is included in IEEE's outreach to graduating student members that request a post-graduation address.
- Also available upon request is information on how to form an IEEE Affinity Group. An Affinity Group will formally establish your Section's GOLD committee activities.
- The RAB GOLD Committee administers a funding program. The "Quick Start Incentive Program" offers funding for activities that will be of interest to your GOLD members.

- The quarterly electronic newsletter, GOLD Rush, is back in business with the September issue. Subscribe for news on committee and GOLD activities by sending an e-mail message to: majordomo@ieee.org. In the body of the message type "subscribe gold-rush", leaving off any automatic signatures.

For more information, you can send an e-mail to gold@ieee.org or visit our web site at www.ieee.org/ra/gold.

IEEE Scoop
October 1999

Student Web Applications Hit All Time High

A total of 704 new student member Web applications were received and processed in September 1999. The previous record was 524 in March! The new IT student online Web application was launched on 23 Sept. 1999 and over 150 students have joined already. The new version allows students to not only join IEEE and any of the 36 technical societies, but also to subscribe to any of the optional transactions, journals and magazines too. October through December are peak months for recruiting new student members, so watch for updates.

The IEEE LEADERSHIP WIRE
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IEEE Offer To Benefit UK Universities

The IEEE is making an offer to universities in the United Kingdom that could bring access to IEEE and IEE information online to nearly 50,000 students and faculty there.

If 20 universities agree to purchase the IEEE/IEE Electronic Library (IEL) by 31 Dec. 2000, the IEEE will make this content available at a significant discount. University consortia in Taiwan and Scandinavia have already adopted IEL under the same terms. The IEEE/IEE Electronic Library is an online database of both organizations' information since 1988.

On 8 Dec, the IEEE will host a reception for UK universities at the Royal Garden Hotel in London to announce this offer. Roger Pollard, Chair of the Electrical

Engineering Department at the University of Leeds, and Chair of IEEE's Electronic Products Committee, will serve as host.

For information, contact Jonathan Dahl, Sales & Marketing, at MailTo: j.dahl@ieee.org.

The IEEE LEADERSHIP WIRE

26 Nov. 1999

Vol. IV, No. 22

Availability of IEEE - USA Employment Services for non US Members

At the recent Sections Congress '99, IEEE-

USA confirmed that the very successful IEEE-USA Employment Services are available to all IEEE members!!!!

Check out the WEB page at <http://www.ieeeusa.org/employment/global> for information and access to the IEEE-USA Global Employment Services.

For non-US job seekers:

- job listing service, and
- resumé referral service

For non-US employers:

- fee required
- job listing service, and

- resumé referral service

IEEE entities in Regions 7 - 10 can help their members gain a competitive edge in their careers by promoting IEEE - USA's Employment Services for non - US members.

For additional information, contact Chris Currie of IEEE - USA Member Services at c.currie@ieee.org, or via phone at 1-202-785-0017, Extension 342. ♦

t.hissey@ieee.org

IEEE Historical Milestones

Volta's IEEE Milestone in Como (Italy) on Sep. 15, 1999

Como, known for its lake and for its silk industry, has been during the week of Sep. 13-18 the gathering point for two international meetings devoted to Volta's invention of the electrical battery 200 years ago (see www.cilea.it/volta99).

At that time Como belonged as Milan to the Austrian Empire and was about to become part of the French friendly Cisalpin Republic (lasting until 1815), which also comprised the southernmost part of Italian speaking Switzerland called Mendrisiotto: a revolutionary time for a revolutionary invention.

The climax of the week's celebrations was the unveiling of the bronze plaque provided by IEEE in the evening of Sep. 15, commemorating the 200 years anniversary of the Voltaic cell. By nice late summer weather the participants of the meetings flocked at 6 pm to Volta's memorial on the shores of Como's lake from Villa Olmo, where the Volta Scientific Center organized the conferences.

Inside the memorial's circular neoclassical building (see www.rcl.it/como/musei/default.htm) the unveiling of the plaque, officiated by Como's Mayor Alberto Botta and the Province's representative Prof. Piero Maranesi (a IEEE member) was preceded by a short speech of Prof. R. Kurt Richter, IEEE Region 8 Vice Chair Technical Activities, who came from



Prof. G. Zingales, Chair of the North Italy Section (left) reading the text of the Milestone plaque in company with Prof. P. Maranesi (Province of Como, center) and Como's mayor Mr. A. Botta (right)

Graz (Austria) for the occasion, carrying the wishes and messages of IEEE's History Committee and IEEE Region 8.

Special attendees were the two last female descendants of Volta, countess Ippolita Volta-Martino with her husband and countess Piera Volta-Roseo, who were joined by Prof. G. Zingales, chairman and Prof. L. Dadda, past chairman of Italy's IEEE Northern Section as well as Dr. M. Ciappa, deputy chairman and Hugo Wyss of Switzerland's IEEE Section. Dr. F. Canobbio-Codelli, manager of the Volta Scientific Center shot the pictures of the



Very special and honoured guests at the Volta Milestone included the Countess Ippolita Volta-Martino (left) and her husband, and the Countess Piera Volta-Roseo. The Countesses are Volta's last female descendants.

event and accompanied those present to the ensuing drinks reception hosted by the Mayor in the salons of Como's beautiful Teatro Sociale, built around 1827, and still the center of its musical and operatic life.

The discussions started at Teatro Sociale on reminiscences of Volta's achievements found a delicious end in a small circle around a dinner table at Barchetta's Hotel (a dependence of the famous Villa d'Este Hotel), offered by the town of Como to the IEEE representatives and their guests.

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Milestones *continued*

Switching from English to Italian with some German inserts and then back to English, the delegates could also hear some stories about another great Italian scientist, Enrico Fermi, told by countess Ippolita Volta, who knew him well and met him many times on Lake Como. She was also complaining that Volta's Lighting Tower built in 1927 on the Brunate mountain overlooking the town and lake of Como was no longer beaming its red-white-green light into the darkness of the night so regularly as usual. So the idea was tossed around to find a sponsor (an oil-company?) supplying and installing a modern photo-voltaic plant close to the Lighting Tower, making sure that there would be a constant and reliable source of electrical power, like the battery 200 years ago, for feeding the lamps and the motor of the Tower.

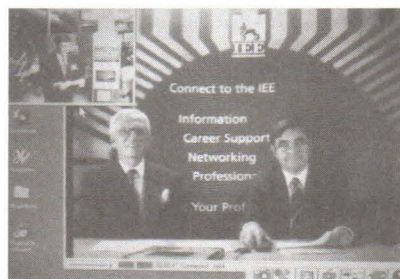
*Report from Hugo Wyss
parco@tinnova.com*

Wireless Telegraphy Milestone Celebrated at AFRICON'99

Region 8's AFRICON'99 Conference in Cape Town (29 September - 1 October 1999) provided the ideal setting to commemorate the first operational use of Wireless Telegraphy by an army in the field. This happened during the Anglo-Boer War of 1899-1902 with the demonstrations and trials taking place almost exactly one hundred years ago. The IEEE generously made available two bronze commemorative plaques to mark the occasion.

The first plaque was unveiled on 28 September 1999, during the ice-breaker social, which was held in South Africa's oldest continuously occupied building, the Cape of Good Hope Castle, in Cape Town. This Castle was built during the mid-seventeenth century as a fortification for the first settlement. It is currently the Headquarters of the Western Cape Command of the South African National Defence Force.

Maurice Papo, Secretary of the IEEE and also representing the Region 8 Director Rolf Remshardt, welcomed the distinguished guests and conference atten-



A photograph of the projected slow scan TV picture received by Internet, showing the London end of the link. Prof. Michael Rodd, Deputy Secretary of the IEE is on the right, and Mr. Roland Saam, Chairman of the UK and Republic of Ireland Section of the IEEE on the left. The inset is the Cape Town end of the link.

dees. The reply was given by Major General Chris van Zyl gave the reply. In this he traced the historical significance of the Castle. Duncan Baker briefly provided the background for the IEEE Electrical Engineering Milestone and the nomination of the Wireless Telegraphy milestone.

Marconi's wireless telegraphy system was demonstrated to the British military and various military attachés at the Castle during early December of 1899, before the equipment was moved to de Aar. Also in February of the same year there had been a civilian demonstration of wireless telegraphy on the nearby Grand Parade. The historical military and other links, which influenced the selection of the Castle as a suitable site, are clear.

There was, however, also another less known link to experiments performed by one Edward Alfred Jennings in Port Elizabeth at the oldest telephone exchange in South Africa. He "discovered" wireless telegraphy independently of Marconi and other workers abroad. His experiments caught the attention of Lloyds of London, and were reported in the Eastern Province Herald of May 1899. South Africa's telecommunications utility, TELKOM, can justly claim direct links to the post and telegraph services in the Cape at the time. It was therefore fitting that the second plaque would be displayed in the TELKOM Exploratorium on the Victoria and Alfred Waterfront. This is one of South Africa's premier tourist attractions. This

plaque was unveiled at the Exploratorium on 29 September 1999. Mr Ben Theron, Senior Regional Executive of TELKOM, welcomed the invited guests. Duncan Baker again sketched the background to the milestone nomination and the TELKOM links to Jennings' experiments. The plaque was unveiled by Mr Reuben September, Deputy Executive of TELKOM's Technology and Network Services. Long range honoured guest at this event were Mr Dan Benigni, VP Regional Activities Board, and Prof Michael Rodd, Deputy Secretary of the IEE and Mr Roland Saam, Chairman of the UK and Republic of Ireland Section of the IEEE. Their "attendance" was made possible by means of slow direct TV Internet links via satellite to Washington, and London. This link provided a stunning contrast to the actual event being celebrated, and brought home quite forcefully how far we have come in 100 years, and just how much the globe has shrunk in that time because of telecommunications.

The AFRICON programme also had an historical session to commemorate the Milestone. Tony Voorvelt from the Department of Physics at the University of the Witwatersrand, presented a demonstration lecture illustrating Herz's and Marconi's early experiments. What was interesting was the use he made of apparatus dating from the era. This provided an added dimension to an excellent lecture. Lynn Fordred presented her extremely popular lecture describing the communications



Mr. Tony Voorvelt displaying a model of an early wireless telegraph receiver made according to Marconi's circuit drawings. The receiver uses components dating from the era of Marconi's early work.

scenario in the British military at the turn of the century, the interest of the Transvaal Republic in obtaining wireless telegraphy apparatus, and the use of the equipment by

the British during the war. Lynn is curator of the Corps of Signals Museum of the South African National Defence Force.

These two invited lectures provided a

fitting climax to the celebrations of the historical wireless telegraphy milestone. ♦

Duncan Baker

duncan.baker@ieee.org

Conferences

The Region 8 Homepage list of R8 Conferences and Technically Co-sponsored events is regularly updated. Visit our Website at <http://www.ieee.si/r8-conf.html>

TELSIKS'99 CONFERENCE REPORT

The 4th Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIS'99 was held from October 13 through 15, 1999, at the Faculty of Electronic Engineering, University of Nis, Yugoslavia. It was organized by the Faculty of Electronic Engineering - Nis, Ei HOLDING Co. - Nis and Radio-Television of Serbia - Belgrade.

This year the conference was organized under the auspices of:

- Serbian Academy of Science and Art
- Yugoslav Ministry of Telecommunications
- Yugoslav Ministry for Development, Science and Environment
- Serbian Ministry of Science and Technology
- Serbian Ministry of Traffic and Communications.

At the time that the critical "go/no-go" decision had to be made by the organizers, Yugoslavia found itself in an extremely difficult war situation. In view of the strong support shown by foreign participants, reviewers, and others who all wanted the conference to go ahead, the Organizing Committee decided to press on with arrangements. The review of the papers, which were submitted for presentation was completed by the international panel under difficult circumstances.

The accepted papers were prepared for publication in the Conference proceedings, and the final Conference and Workshop program was defined.

The Conference topics were: Satellite communications, Cable communication

systems, Radio communications, Mobile communication systems, Satellite and terrestrial broadcast systems, Television technique, Applied electromagnetics, Antennas and propagation, RF and microwave technique, Optical communication systems, Telecommunication and DSP integrated circuits, Modulations and Coding, Signal processing, Multimedia, Telecommunication networks, etc. TELSIS'99 focused on modern broadcasting technologies.

In all 122 regular contributed papers have been accepted for oral or poster presentation. In addition, a number of experts in the areas of the conference topics were asked to present their research results. A further 26 invited papers were included in the Conference program. The authors of regular and invited papers were from 20 countries (USA, Canada, Japan, India, Australia, China, New Zealand, United Kingdom, France, Germany, Switzerland, Poland, Hungary, Romania, Russia, Republic of Belarus, Ukraine, Macedonia, Bosnia & Herzegovina and Yugoslavia).

The Opening Session started by the speeches of Prof. Bratislav Milovanovic (Conference Chairman), Prof. Branimir Djordjevic (rector of the University of Nis), M.Sc. Branka Jokanovic (Chair of Yugoslav IEEE MTT Chapter), Zoran Zivkovic (Nis Mayor) and other speakers. The Conference was opened by the minister of Science and Technology of the Republic of Serbia. After that, a plenary session with two invited papers was held. First of them was a paper of Prof. Ilija Stojanovic, Academy Member, Serbian Academy of Science and Art, Belgrade, Yugoslavia. His invited paper called "Radio at the Outset of the New Millennium." The second invited paper, "Human Exposure to Electromagnetic Fields from Mobile Phones," was presented by Dr. Bela Szentpali from Research

Institute for Technical Physics and Materials Science, Budapest, Hungary.

In addition to a workshop on Terrestrial Broadcasting, which was held in the Serbian language, the Conference hosted an exhibition of research results and products related to the Conference topics. In all, 25 exhibitors took part.

Also, a special issue of the International Journal "Facta Universitatis", series: Electronics and Energetics, edited by University of Nis, was presented. This issue is devoted to Prof. Ilija Stojanovic, member of the TELSIS Program Committee, on the occasion of 75th birthday and 50 years of successful work in telecommunications. Several papers from the TELSIS'99 program found the place in this issue. In addition, a special issue of Facta Universitatis will be completely devoted to TELSIS'99, including the papers that will be chosen for publishing after the additional reviewing.

The Organizing Committee has received congratulations from many people and organizations for organizing such a successful Conference under extremely difficult conditions. The various delegates left with a good impression of the high professional level of the conference, and the traditional hospitality of the organizers.

The report has been shortened because of space limitations. It is based on the original report submitted by Prof. Bratislav Milovanovic (bata@elfak.ni.ac.yu)

CALLS FOR PAPERS

IN2000

7 - 11 May 2000

Cape Town, South Africa

IEEE INTELLIGENT NETWORK WORKSHOP IN2000

Intelligent Network Solutions for the New Millennium

continued on page 10

Conferences *continued*

The convergence of traditional telephony, data networks and the Internet, blurring of boundaries between public and private networks, fixed and mobile networks, the emergence of integrated broadband multimedia networks and the information super-highway contribute heavily to the rapid changes in the telecommunications industry. These trends provide a vision for telecommunications for the new millennium, that is, information anytime, anywhere, any place and in any form. In this context the instant provision and customization of services become fundamental issues.

For more information visit our website at <http://www.comsoc.org/IN2000>

Day on Diffraction Millennium Workshop

29 May - 1 June 1 2000
St.Petersburg, Russia

Organized by Faculty of Physics of St.Petersburg Univ., St.Petersburg Branch of Steklov Math. Inst., Euler International Math. Inst., St.Petersburg; Jointly with the University of Florence and the University of Michigan

Technically co-sponsored by IEEE Antennas and Propagation Society. Co-sponsored by Russian Foundation for Basis Researches

SESSIONS TO BE ORGANIZED

- Mathematical aspects of wave propagation
- New directions in asymptotic
- Canonical diffraction problems
- Diffraction on non-smooth obstacles
- EM analysis techniques
- Underwater acoustics
- Fluid dynamics
- Waves in elastic media
- Plates, shells and vibration
- Nonlinear phenomena
- Non-stationary phenomena

For more information contact:

I.V.Andronov, iva@aa2628.spb.edu

V.E.Grikurov, grikurov@mph.phys.spbu.ru

A.P.Kiselev, kiselev@pdmi.ras.ru

FAX: +7-812-428-7240

Dept. Math.& Comp.Phys.

Inst. On Physics, St.Petersburg Univ.

Ul'yanovskaya 1 198904 Petrodvorets

Russia

PROFES 2000

20 - 22 June 2000
Oulu, Finland,

The Product Focused Software Process Improvement is to be held in Oulu in Finland. Submission The deadline for Papers, Panels, Workshops, Tutorials is January 31, 2000.

E-mail: bomarius@iese.fhg.de

Item provided by: Petra Steffens, Head Marketing/PR

Fraunhofer Institute for Experimental Software Engineering

Tel: +49 (0) 6301 / 707 160

Fax: +49 (0) 6301 / 707 200

E-mail: steffens@iese.fhg.de

www.iese.fhg.de

PREME 2000

27 - 30 June 2000
Vladimir-Suzdal, Russia

The Fourth International Conference on Physics and Radioelectronics in Medicine and Ecology is being organized by the Russian A.S. Popov Society; the Ministry of General and Professional Education in Russia; the Institutes of Radioengineering and Electronics, and of Space Research of the Russian Academy of Sciences; Vladimir State University; Southern Illinois University in Carbondale, USA, and the IEEE Russia Section. The Chair of the Organizing Committee is Prof. Yuri Gulyaev, President of the Russian Popov Society, and Chair of the IEEE Russia Section.

- Topics to be discussed include:
- Methods and facilities of early diagnostics,
- Physiotherapeutic devices,
- Biomechanics and problems of musculoskeletal system correction and treatment,
- Laser technologies in medicine and ecology,
- Biocybernetics and mathematical modeling,
- New information technologies in biomedicine and ecology,
- Methods and facilities for environmental control,
- Ecology and health of people, and
- Actual problems of engineering education in the field of biomedical engineering

and ecology.

The conference will be organized in the form of plenary sessions and problem-oriented sessions, poster papers as well as "round table" discussions. An exhibition of technical equipment and devices will also be organized.

The languages of the conference will be Russian and English.

Deadline for submission of papers: 20 December 1999.

For more information contact:

Dr. Henrich Lantsberg, Vice-Chair of the IEEE Russia Section

Fax: (7095) 203 8414

E-mail: h.lantsberg@ieee.org

IEEE International Conference on Multimedia and Expo

30 July - 2 August 2000
New York City, USA

The International Conference on Multimedia & Expo 2000 is the first IEEE multimedia conference that will take place in joint collaboration with four IEEE societies. The same four IEEE societies that have recently launched the IEEE Transactions on Multimedia, namely the Circuits and Systems Society, the Computer Society, the Signal Processing Society and the Communications Society have again come together in making this one-of-a-kind conference a reality.

The goal is to unify all IEEE as well as non-IEEE multimedia related activities under the common umbrella of ICME 2000 — the millennium multimedia meeting.

For more information visit our website at <http://www.ieee-multimedia.poly.edu/>.

RADECS Workshop '2000

11 - 13 September 2000
Louvain-la-Neuve, Belgium

The Radiation Effects on Components and Systems Workshop (RADECS '2000) will be held in Louvain-la-Neuve, Belgium, 11-13 September 2000. The RADECS Workshop alternate every two years with the RADECS grand conference. It is devoted to the effects of radiation on electronic components and systems. Papers describing radiation effects on devices, integrated circuits, sensors, and systems, as well as hardening, test environmental mod-

elling methods will be presented in oral and poster sessions. The target applications are primarily space but also nuclear power industry, high-energy physics and military. This year, the papers in the areas of new space constraints: "The MEO & LEO constellations" are especially encouraged.

The deadline for submission of abstracts is April 3, 2000. Full details on the Workshop are given on the web-site <http://www.radeecs.cyc.ucl.ac.be>. A Proceedings volume will be edited and a

selected number of papers will be published in IEEE Transactions on Nuclear Science. Exhibitions stand will be available, during the Workshop, for companies and organisations wishing to promote their products and services

PIMRC'2000

**18 - 21 September 2000
London, UK**

The 11th IEEE International Symposium on Personal, Indoor and

Mobile Radio Communication will be held at the Hilton London Metropole Hotel.

Info: Tel: +44 20 7848 2898; Fax: +44 20 7848 2664; <http://www.pimrc2000.com>
Trevor Clarkson
(UK&RI Comms Chapter Chair)
Tel: +44 20 7848 2367
E-mail: tgc@kcl.ac.uk
WWW: www.comsoc.org

Calendar of Events

IZS2000

**15 - 17 February 2000
Zurich, Switzerland**

The 2000 International Zurich Seminar on Broadband Communications will be held at the Swiss Federal Institute of Technology, Electrical Engineering Department, in Zurich, from. This Millennium Seminar will bring together the experts in the topics: Accessing, Transmission, Broadband and Mobile Networking.

Web site: <http://www.ifh.ee.ethz.ch/~izs2000>

INFOCOM 2000

**26 - 30 March 2000
Dan Panorama Hotel in
Tel-Aviv, Israel**

The conference is sponsored by the technical committees on computer communications of the IEEE Communications and Computer Societies. For more information, please see <http://www.comnet.technion.ac.il/infocom2000/>

Moshe Sidi

Dept. of EE, Technion

Haifa 32000, Israel

moshe@ee.technion.ac.il

DRPT 2000

**4 - 7 April 2000
City University, London, UK**

An International Conference on Electric Utility Deregulation and Restructuring

and Power Technologies 2000 will take place in London UK. The conference will focus on "power delivery technology for a new market." It will highlight technology behind the new market brought about by deregulation and restructuring. The conference is co-sponsored by the IEEE and IEE. For more information visit the website www.city.ac.uk/drpt2000, or contact:

Conference Secretary:
Energy Systems Group,
City University,
London, EC1V 0HB, UK,
Fax: (+44) 171 477 8568.

AP2000

**9 - 14 April 2000
Davos, Switzerland**

The Millennium Conference on Antennas and Propagation

For more information contact:

ESTEC Conference Bureau
Phone: +31 715655056
Fax: +31 715655658
E-mail: confburo@estec.esa.nl

ICM 2000

**16 - 18 May 2000
Jerusalem, Israel**

International Conference on Metrology

Conference secretariat: ISAS International seminars,

Fax: +972-2-6520588

Tel: +972-2-6520574

E-mail: confer@isas.co.il,

Web site:

<http://www.isas.co.il/metrology>

ISACAS'2000

**18 May 2000
Mossad Neaman,
Kiriath Hatechnion, Technion
Haifa, ISRAEL**

The Third Israeli Symposium on Computer-Aided Surgery, Medical Robotics, and Medical Imaging will be held in Haifa, at the Mossad Neaman, Kiriath Hatechnion, Technion.

Dr. Leo Joskowicz

Institute of Computer Science

The Hebrew University of Jerusalem

Givat Ram, Jerusalem 91904, Israel

Phone: +(972)-2-658-6299

FAX: +(972)-2-658-5439

E-mail: josko@cs.huji.ac.il

Or:

Prof. Moshe Shoham

Department of Mechanical Engineering

Technion-Israel Institute of Technology

Technion City, Haifa 32000, Israel

Phone: +(972)-4-829-3264

FAX: +(972)-4-832-4533

E-mail: shoham@tx.technion.ac.il

Check our web site for frequent updates:

<http://www.cs.huji.ac.il/~josko/isracas2000.html>

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Calendar of Events *continued*

NC'2000

23 - 26 May 2000

Technical University of
Berlin, Germany

Second International ICSC Symposium
on Neural Computation

Fully updated information is available
from: <http://www.icsc.ab.ca/nc2000.htm>

You may also contact:
ICSC International Computer Science
Conventions

P.O. Box 657, CH-8055 Zurich,
Switzerland
E-mail: icsc@icsc.ch
Phone: +41-878-888-150
Fax: +41-1-761-9627 ♦

Guest Lecturer for Satellite Communications Available

Satellite communications is a vigorous and vibrant industry world-wide, and many IEEE Sections have found that short courses or tutorials on the subject are popular with members. Dr. S. H. Durrani, a past President of the IEEE- Aerospace Electronic Systems Society (AESS) has given such lectures in more than 20 countries around the world, under the AESS Distinguished Lecturers Program. The lec-

tures cover systems, technology, and services, in the context of current international, regional and domestic systems for fixed and mobile services, and emerging systems for personal communications via satellite. The format is a one or two days course, a half-day seminar, or a single lecture, depending on the level of detail desired. The AES Society shares the travel cost, and the host Section picks up the local costs.

Typically, a Section can charge a registration fee (or find a local sponsor) and make a surplus to support other activities.

Dr. Durrani has offered to give similar lectures in Region 8 during the spring and summer of 2000. He worked for industry, universities, and NASA for over 40 years, and is currently a consultant. In 1998 he was a Guest Lecturer at the International Space University, Strasbourg, France, and in 1999 had an assignment for the UN Development Program with the Space and Upper Atmosphere Research Council in Pakistan. Sections interested in having a lecture on the topic should correspond directly with Dr. Durrani, at 17513 Lafayette Dr., Olney, MD 20832, USA. His e-mail address is s.durrani@ieee.org. ♦



The Swiss Federal Institute of Technology Zurich (ETHZ)
invites applications for a

Professor for Electronic Packaging and Interconnect

The responsibilities of this professorship include research and teaching in the area of electronic materials and its applications. Basic research in materials (e.g. ceramics, thin film, polymers) for electronic systems as well as applied research with an emphasis in packaging and assembly technologies (e.g. microsystems, MEMS, microsensors, 3D-MCM, direct attach) are expected.

Candidates for this professorship should be internationally known for their scholarship in material sciences and packaging and present evidence of their ability to direct demanding research projects as well as to co-operate successfully with industry in this field.

Applications with a curriculum vitae, a list of publications, and a list of research activities and projects are to be submitted to the President of ETH Zurich, Prof. Dr. O. Kuebler, ETH Zentrum, CH-8092 Zurich, not later than March, 15, 2000. The ETHZ specifically encourages female candidates to apply with a view towards increasing the proportion of female professors.



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DEADLINES

Material to reach me by the following date:

May 2000 - 13 March 2000

August 2000 - 12 June 2000

November 2000 - 8 September 2000

Duncan Baker
Editor, R8 News
duncan.baker@ieee.org



IEEE
Networking
the World™

region8 student news

Editor: Jens Hannemann (Student Representative) j.hannemann@ieee.org

EDITORIAL

Hi folks,

In November, I had the pleasure to conduct a Leadership Training Program together with Jorge in Passau, Germany. There has been a celebration and a really great party because of the Student Branch Passau's 10th anniversary. We took the occasion to have the workshop, and although it was held *after* the party, everybody really enjoyed it and it was very productive. Unfortunately, the deadline for this edition of the Student News was too close to get a full report on the event in Passau in time, so stay tuned.

I thank the Passau Branch for their hospitality (all the attendees were accommodated by branch members!) on behalf of all of the participants. This was just another example of networking the IEEE way.

One comment I'd like to share with you came from Bostjan, the chair of the Maribor Branch in Slovenia. He said that it was a very interesting experience for him to meet people you didn't know before and after a short while you realize you've been talking for hours and hours just like old friends because you have a thing in common: IEEE. He couldn't have expressed it better, since this is what I've experienced everywhere I went and met IEEE folks. There is always a special and friendly atmosphere at IEEE meetings. So I'd like to encourage all of you to keep up this tradition and to personally take advantage from it by actively participating in IEEE events, be it conferences, workshops or - of course - parties.

Jens

STUDENT BRANCH CONGRESS

A week you mustn't miss:

**IEEE Region 8 Student Branch
Congress in Eindhoven, the Netherlands
15 - 20 May 2000**

This year it's our honor to organize the second IEEE Region 8 Student Branch Congress in Eindhoven. An event like this is a great opportunity for all student branch chairs to discuss the ideas they have about many different subjects that involve student branch operation. This year we are also expecting friends from regions outside R8 so it will be a unique opportunity to establish interaction between student branches from different regions. It will be a week with a lot of fun and a chance to taste a bit of the Dutch culture.

For whom?

All IEEE student members throughout the world are invited to join. If you are the chair of a student branch in R8, your expenses will be reimbursed, i.e. your plane or train costs and everything during the week, like hotel costs and meals, will be paid by IEEE Region 8. If the branch chair cannot participate, another board member or active student can come in his or her place. If you need some information or anything else to be able to convince your school/university that you really need the week off, please ask your counselor for help or send us an e-mail.

We also invite Student Branch Counselors to participate in the congress. During the Congress we'll discuss the things you can do as a Counselor to help and promote IEEE at your university. We think that it is very important to improve the interaction between the student branch chairs and the Section Chairs. For this reason all Section Chairs are welcome to participate. Please note that the costs of the congress week and your flight will not be paid by IEEE Region 8 if you are a Counselor or Section Chair.

The preliminary program

Everyone will arrive in the weekend of 13/14 May. On Sunday evening, there will be a

welcoming reception at which you can get to know the other participants. The Monday is filled with lectures about IEEE and some discussions about the problems that student branches have and how they should be resolved. If you have other ideas to talk about, please let us know! On Tuesday, there are some lectures and there will be workshops on IRC, website design and other computer related stuff. For the counselors there will be a separate workshop and information exchange possibility. On Wednesday we hope to visit a company. On Thursday our annual symposium with lectures on electrotechnical subjects will be held. In the evening there will be the first international Egg Drop Contest and a visit to some local pubs. Friday is a cultural day; we will then visit famous places in the Netherlands and of course close the Congress with a big party in the evening! The flight back will be in the weekend of 20/21 May.

How to participate?

Please contact us by e-mail as soon as possible with your function (e.g. chair or secretary), full name, branch name and address, e-mail address, plus the name and address of your counselor. The counselors and Section Chairs can participate by sending an e-mail with their address, branch address or belonging Section. E-mail to sbc2000@ieee.tue.nl.

Do you have any tips, ideas etc. for the upcoming Congress, please let us know!

Hoping to hear from you,

Adam van Eekeren

Secretary SBC2000 Committee

For more information please contact us:

IEEE Student Branch Eindhoven
Eindhoven University of Technology
Den Dolech 2, EH 6.29

5612 AZ Eindhoven

The Netherlands

Tel: +31 (0)40-2473433

Fax: +31 (0)40-2448375.

E-mail: sbc2000@ieee.tue.nl

<http://www.ele.tue.nl/ieeesb>

ROLL UP FOR PREP 2000

PREP 2000 is for students in a broad range of electronics, photonics and communications research. The conference will take place on 11-13 April 2000 at Nottingham University's new Jubilee Campus.

EPSRC is funding up to 250 free places for students, so register today.

Students will have an opportunity to present their work in technical tracks which cover electronics technology, circuits and systems; optical networks and optical sensor systems; photonic materials and devices; and communications and digital signal processing. Mark Bohr, Intel and Professor Ian White, University of Bristol will deliver tutorials in a broad range of electronics and photonics research.

A great line-up of speakers will feature at the industry forum including Bernt Ericson, Ericsson Corporate Technology; Hermann Hauser, Amadeus Capital Partners; David, Hewlett Packard Ipswich Components; Poosana Premanoch, Total Access Communications and Peter Saraga, Philips Research Laboratories).

Skills sessions will help students to develop creative techniques to build their confidence to network, and to build assertiveness and team skills. Social events will add fun and relaxation and a 'mind mapping' session will introduce a useful technique to enhance and expand the memory.

Visit the PREP2000 at <http://www.epsrc.ac.uk/prep2000> for more information, or call Lesley Tracey on 01793 444363, E-mail lesley.tracey@epsrc.ac.uk.

IRAN

Second Iranian Student Conference on Electrical Engineering (ISCEE'99)

The Second Iranian Student Conference on Electrical Engineering was held in Amirkabir University of Technology, Tehran, Iran from 24-26 November 99. It was sponsored by our university, several governmental and private companies, and also the IEEE Iran Section.

This conference was a pleasant opportunity to gather 3200 enthusiastic students

from all over the country; from more than 50 universities.

Of the 630 abstracts sent to the conference a total of 163 papers were accepted: 130 of them as oral presentations and 33 of them as posters.

The presentations took place in parallel in 8 halls within the university. At the same time 15 keynote lecturers presented their valuable lectures. Also 17 workshops were held during the conference. Besides all these programs which were held within the university, 9 visits to industrial companies were arranged in which a total of 350 students took part. Other important events in the conference were "Industry and Student Activities Exhibition" and "Technical Book Fair".

We had a stand for the IEEE SB of our university within the exhibition hall, where we introduced our activities to other students. One of the most important activities of our branch during the conference was the publication of the first issue of the branch's magazine, which was a special issue for the conference. We also managed to introduce the benefits of being an IEEE student member and the rules of the establishment of IEEE student branches in universities. One other important event was the first meeting of IEEE SB representatives participating in the conference where strategies and plans for future activities and cooperation among Iranian student branches were discussed in a very friendly environment.

ISCEE'99 being organized by more than 250 students of our university was a great experience of team working and gaining leadership skills and a wonderful chance for colleagues to gather and share knowledge and experience.

*Haleh Fotowat, Chair
IEEE SB Technical Activities
Amirkabir University of Technology
E-mail: h.fotowat@ieee.org*

EGYPT

In the last couple of months, we had many great activities and achievements that we would like to share with you. HTI SB has been advancing in constant steps forward

in many aspects, some of which are presented below by the branch officers.

*Prof. Kamel M. Hassan
Counselor, Higher Technological
Institute Student Branch*

Satellite Communication in Egypt.

A workshop about Satellite Communication in Egypt was held on 20 November 1999. The workshop was composed of two main parts: the first part: Satellites Technology and the second part Digital Broadcasting. In the first part, the main components of satellites were described with details about satellite launching. In the second part, the Digital Broadcasting Technology was described with focus on its advantages over analog broadcasting. Prof. Lutfi Sakr, from NileSat Company, conducted the Workshop, which was attended by more than 100 students.

Arabic Version of IEEE Student membership.

We in the HTI-IEEE believe that the shortest way to explain something to others is to explain it in their native language. So, resorting to our belief, we produced the Arabic Version of the IEEE Student Membership Application. We need your advice and comments. It is the first step to the Arabization of all IEEE Student Brochures. Have a look at it at <http://www.stormloader.com/htisb/act/arbapp/> on our new Student Branch Home page www.stormloader.com/htisb/

A New Article about HTI-IEEE

An article about HTI-IEEE SB is published in the Magazine of Nekabat El-Mohandiseen (The Union of Engineering in Egypt), issue no 523, Oct 1999. The article by Nahel M. Amirah, branch Chairman and titled "Toward more Interactivity and Communication in University". The article describes the IEEE student branch as one of the methods to enlarge interactivity and communication in the University Community, taking HTI-IEEE and its activities as an example.

We would like to announce two things:

- ♦ A very special discount for IEEE Student members in Egypt as a special agreement between us, and the ISIC (International Student Identity Card) office in Egypt. If you are an IEEE student member in Egypt and want to get an Y2K ISIC card at discount rates, please contact us or the ISIC office at the Egyptian Student Travel Services, 23 El-Manial Street, EL-Roda (+202) 53 10 330 (+202) 36 37 251
- ♦ The Systems Group at the HTI-IEEE student Branch will start its activities this year with a course about System Identification and Optimal Control by Prof. Tayel Dabbous, IEEE member. The Course will be free of charge for HTI IEEE members. Send your registration and questions to htisb@softhome.net.

A Present from the HTI Dean.

As a result of our outstanding activities, the HTI Dean Prof. Mostafa M. Sabet agreed to donate about \$8000 to the HTI-IEEE student Branch to build our own library. With this support we will order many of the IEEE periodicals, videos, CD-ROMs and self-study courses besides get some ACM and IEE publications. Thanks Prof. Sabet.

*HTI-IEEE SB Officer
Nahel Amirah*

JORDAN

It is now two years since the IEEE branch at the Jordan University of Science and Technology (J.U.S.T) was established. Since that time we gave many benefits to the IEEE members as well as the non-member students.

And now as we will start the third year as an IEEE branch, we hope we will be able to give more benefits for the students to activate their study.

The last year was full of activities and events. One of the most important activities was the IEEE Week.

The first day of this week was dedicated to the Internet in Jordan and the world. An engineer from JoinNet, a company, talked

about networking in Jordan and the new coming technologies in networking. The second day covered the higher education in the USA, which was presented by the American Middle East Center (Amid East).

Next day was a lecture about the Microsoft Certified System Engineering (MCSE) exams and certificates.

The fourth day was held with the Global One company and covered many subjects as the importance of the Internet in the scientific fields, multimedia and shopping through the Internet.

The last day covered the subject of how to write your CV, presented by Dr. M. Khasawneh.

IEEE Week was the most important event in the last academic year. However, there were many other important activities such as giving computer and programming courses and a visit to the Middle East Technology Show (METS99).

Besides all that, the branch had a lot of social activity such as the regular meeting and tea parties.

We hope to achieve our goals here at JUST IEEE SB and to do even better next year.

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SPAIN

Madrid-ETSIT SB Meets ACM Chapter and Wins European ACM Contest

One of the main tasks in the Madrid-ETSIT Student Branch is increasing the interaction with other organizations, especially those with similar interests and objectives. The ACM Chapter in the Computer Science School is one of them.

This year, the ACM Student Chapter of Madrid and the IEEE SB of our School worked together to organize the local phase of the ACM International Collegiate Programming Contest. It is an activity of the ACM that provides college students with an opportunity to demonstrate and sharpen their problem solving and computing skills.

The teams of students represent institutions of higher education and compete in local and regional contests held around the world before the World Finals.

The local contest was held last April 23rd in our University. Seventeen student teams participated to get a place in the European Regional Finals.

The event was retransmitted to the Main Hall of our School using ISABEL (a customizable multiconferencing application, which provides advanced video/audio/data conferencing features as well as Computer Supported Collaborative Work support (<http://isabel.dit.upm.es>). The people who could not follow the contest from here, could access a web page (<http://www.ieeesb.etsit.upm.es>) which informed in real-time about which problems were solved by each team.

Now, the best news: the winners of the local phase have been extremely active members of our Student Branch for years, and they have also won the Southwestern European Contest Finals, held in Valladolid (Spain) on November 21st. Their names are Juan Cespedes, Alvaro Martinez and Cesar Sanchez and will represent us in the WORLD FINALS next March in Orlando (USA).

The collaboration between the ACM Student Chapter and IEEE Student Branch of Madrid lead us to success and it is an experience that we intend to repeat in the near future, in order to strengthen our relationship.

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MARIBOR STUDENT BRANCH

In the November 1999 issue of the Region 8 News you will find a complete report on the Student paper Competition for 1999. The Maribor Student Branch in Slovenia won the prestigious Dick Poortvliet Award. During the October meeting of the Region 8 Committee the award was received by Prof. Jurij F. Tasic on behalf of the Maribor Student Branch.



Prof. Jurij F Tasic (right) receives the Dick Poortvliet Award on behalf of the Maribor Student Branch from Dr. Gozde Bozdagi (center), VP Student Activities, with the Director of Region 8, Dr. Rolf Remshardt (left), looking on.

MANAGEMENT OF INFORMATION - Groupware or labor in-group (II)

An important part of the labor in a student branch working as a team is accomplished through the information and data exchange between the members. Traditionally this is realized through conversations. The conversations are essential and are typically the principal means through which information and data is exchanged, decisions taken and plans formulated.

The conversations can be verbal (face-to-face, through the telephone or videoconferencing, for example) or written, mainly through electronic mail. Various technologies will be used depending on the exact circumstances. When the participants are available in the same site and at the same time, face-to-face meetings take place. In these circumstances, one can generate, discuss and vote on ideas in the group, using for example, in a parliamentary voting system.

When the meeting is dispersed geographically a telephone can suffice, and when supplemented by a television image, a videophone. When the number of participants is more than two, telephone confer-

encing which allows speakers in widely separated areas to participate, can be used. If it is necessary to have a video image, then video conferencing is an option. Unlike the telephone and telephone conferences video conferencing has not made much of an impact. Possibly its future use will be allied to the growing capacity and improved technologies of the Internet.

When we are dealing with non-real time exchange of ideas, electronic mailing becomes important. Users may be distributed across a campus, but for various reasons do not interact much with each other. The result is asynchronous communications, and the participants do not have to use the facilities at the same time.

Typically the knowledge of the student branches is carried in the head of their old members or chairs and it is very common to lose opportunities because of ignorance of the fact that this knowledge already exists in the student branch. It becomes problematic when a key member leaves the student branch, because the student branch is then undercapitalized. One of the applications that the groupware makes possible is a knowledge database, basically a repository of ideas. This type of application is based on the fact that members record ideas and forms of solving problems, which they had in the past.

The motivation for this is two-fold. On the one hand, one does not have to "re-invent the wheel" to solve problems which arose in the past. On the other hand one can count on the assistance of members who had already dealt with such problems. The systems are furthermore a good source of training for those less expert members.

If one includes multimedia devices, it is possible to enrich the compiled information and gathered data with screen sequences,

images and voice describing the problem and the solution.

The conversations of a group, where all the participants discuss their ideas, are made more accessible through sharing a public facility such as one which provides the databases of discussion. These are based on a space made available to the group, where dialogue lines are generated, with questions, answers, etc., so they can be followed and shared in several electronic conversations at the same time.

In this sense, in the Internet one finds the well-known "News Groups", capable of providing multitudinous conversations on defined topics, generally with speakers that are not known to each other. Another option is the mail lists, such as those supported by the IEEE computer services. A good example of this idea is the mail list of the IEEE Spanish Student Branches, "*spanish-sb@ieee.org*", where all the Spanish executive committees share their ideas and problems to collectively try to find the best solutions for them.

For management actions, the applications of groupware have to do with the temporary dimension. The most typical are the agendas of group. These agendas have a wide set of requirements. Among other things, groupware can assist to define available time slots, thus avoiding the wastage of time and the high number of calls and essential messages, when the number of participants begins to be large.

It is also possible to convene concurrent meetings, to reserve rooms, to send the agenda, to delegate responsibilities to others, and even to be advise of preceding minutes, so we could be prepared in time for the meeting.

Jorge-Luis Sanchez Ponz
Region 8 Student Representative

Deadlines and Upcoming Events

February 28-	Outstanding Counselor Award nominations due to Student Services
March 1	Half-Year dues cycle begins
March 1	Outstanding Student Award recipient should be named to Student Services. Allow 4 weeks for preparation of certificates (and additional time for mailing)
March 31	Larry K. Wilson Award nominations deadline (send nomination to RSAC (Gozde Bozdagi)
April 1	Elections for new branch officers to be held. Inform Student Services about new officers and counselor.
May 1	Annual Report must be submitted to Student Services. The \$1.10 per member rebate checks will be issued only upon timely receipt of the Annual Report!
May 15-20	Second Student Branch Congress in Eindhoven, The Netherlands. See this issue for more information.

If you want *your* local student branch activity listed here, just drop us an e-mail.