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Region 8 IEEE Fellows 2001

On behalf of the IEEE members in Region 8, we congratulate the following friends and colleagues who have been elected as Fellows of the IEEE – one of the highest honours to which our members can aspire:

Alfred Rodney Adams, University of Surrey, Guildford, Surrey, United Kingdom

Sergio Bittanti, Politecnico di Milano, Milano, Italy

Shane Robert Cloude, Applied Electromagnetics, St. Andrews, Scotland

Sorin Cristoloveanu, National Center For Scientific Research, Grenoble, Cedex France

Rik W.A.A. de Doncker, Aachen University of Technology, Aachen, Germany

Daniel De Zutter, University of Ghent, Ghent, Belgium

Francois Bernard Dolivo, IBM Zurich Research Laboratory, Ruschlikon, Switzerland

Fritz R. Gfeller, IBM Zurich Research Laboratory, Ruschlikon, Switzerland

Mohammed Ghanbari, University of

Essex, Colchester, Essex, United Kingdom

Ernst Gockenbach, University of Hannover, Hannover, Germany

Marco Gori, University of Siena, Siena, Italy

Pierre Guillon, IRCOM, Limoges, France

Wojciech Kazimierz Gwarek, Warsaw University of Technology, Warszawa, Poland

Peter S. Hall, University of Birmingham, Birmingham, United Kingdom

Ehud Heyman, Tel Aviv University, Tel Aviv, Israel

continued on page 2

Professor Zhores Alferov Shares Nobel Prize in Physics



Prof. Zhores Alferov

The Royal Swedish Academy of Sciences has awarded the Nobel Prize in Physics for 2000 to scientists whose work laid the foundation of modern information technology (IT), particularly through their invention of rapid transistors and laser diodes.

The prize is being shared by Prof. Zhores I. Alferov (A.F. Ioffe Physico-Technical Institute, Russian Academy of Sciences, Saint Petersburg, Russia) and by Prof. Herbert Kroemer (University of California at Santa Barbara, California, USA).

The citation of the prize reads:

“for developing semiconductor heterostructures used in high-speed-and opto-electronics”.

This year's Nobel Prize recipients have invented and developed fast opto-and micro-

electronic components based on layered semiconductor structures, termed semiconductor heterostructures. Fast transistors built using heterostructure technology are applied in, for example, radio link satellites and the base stations of mobile telephones. Laser diodes built with the same technology drive the flow of information in the Internet's fibre-optical cables. They are also found in CD players, bar-code readers and laser pointers. With heterostructure technology powerful light-emitting diodes are being built for use in car brake lights, traffic lights and other warning lights. Electric bulbs may in the future be replaced by light-emitting diodes.

The outstanding Russian scientist Prof. Zhores I. Alferov was born in 1930 in Vitebsk. He is the current Director of the A.F. Ioffe Physico-Technical Institute, Russian Academy of Sciences (since 1987), Academician (Full Member) of the Russian Academy of Sciences (1979), and since 1989 Vice-President of this Academy.

continued on page 2

INSIDE

Region 8 IEEE Fellows	... 1
Zhores Alferov Shares Nobel Prize in Physics	... 1
In Memoriam 3
Spain Hosts Region 8 3
2001 Awards/Recognitions	. 4
Section & Chapter News	.. 5
News from R10 7
Student Paper Contest	... 7
Conferences 9
Calls for Papers 9
Calendar 10
News from IEEE 12
Region 8 GOLD 13
Student News 14

Region 8 IEEE Fellows 2001 *continued*

Dieter Stefan Jager, Gerhard-Mercator-Universität Duisburg, Duisburg, Germany

Gunnar Johannsen, University of Kassel, Kassel, Germany

Ton A. Kalker, Philips Research Eindhoven, Eindhoven, The Netherlands

Venceslav Frantisek Kroupa, Institute of Radio Engineering and Electronics, Praha, Czech Republic

Thomas John Lewis, University of Wales, Bangor, Gwynedd, United Kingdom

Paolo Marannino, University of Pavia, Pavia, Italy

Wolfgang S. Menzel, University of Ulm, Ulm, Germany

Hagit Messer-Yaron, Tel Aviv University, Tel Aviv, Israel

Jozef Wieslaw Modelski, Warsaw University of Technology, Warsaw, Poland

Vincenzo Piuri, Politecnico Di Milano, Milano, Italy

Ian Postlethwaite, University of Leicester, Leicester, United Kingdom

Anders B. Rantzer, Lund University, Lund, Sweden

Herbert Georg Reichl, Technical University of Berlin, Berlin, Germany

Hans-Martin Rein, Ruhr-University, Bochum, Bochum, Germany

Arne Svensson, Chalmers University of Technology, Gothenburg, Sweden

Yilmaz Tokad, Isik University, Maslak, Istanbul Turkey

Christofer Toumazou, Imperial College, London, United Kingdom

Charles William Trowbridge, Vector Fields Ltd., Oxford, United Kingdom

Mateo Valero, Universitat Politecnica de Catalunya, Barcelona, Spain

Peter Vettiger, IBM Zurich Research Laboratory, Rueschlikon, Switzerland

Kamil Shamilevich Zigangirov, Lund University, Lund, Sweden

Zhores Alferov *continued*

He is author of 4 monographs, 400 articles and papers, and has 50 inventions to his credit. He is also editor-in-chief of several journals.

For his research Prof. Alferov has been awarded a number of national and international prizes and honorary memberships, among them are:

- Ballantyne Medal of the Franklin Institute (USA, 1971),
- Lenin Prize (USSR, 1972).
- Hewlett Packard Europhysics Prize (1978),
- State Prize (USSR, 1984),
- GaAs Symposium Award and H. Welker Medal (1987),
- Karpinskii Prize (FRG, 1989),
- A.F. Ioffe Prize (Russian Academy of Sciences (1996),
- Nicholas Holonyak Jr. Award (2000),
- A.S. Popov Gold Medal (Russia Academy of Sciences, 2000),
- Medal of the Optical Society of America (2000).
- Life Fellow of the Franklin Institute (USA, 1971),

- Foreign Associate of the National Academy of Engineering (USA, 1990),
- Foreign Associate of the National Academy of Sciences (USA, 1990), etc.

Prof Alferov is a member of the IEEE Russia Section (IEEE Laser & Electro-Optics Society Russian Chapter from Saint Petersburg).

On behalf of all members of the III, the IEEE Russia Section, friends, colleagues and pupils we warmly congratulate Prof. Zhores Alferov for his achievements which culminated in a Nobel Prize in Physics for 2000 and wish him prosperity and new achievements in science and technology.

Author's Comments on the History of Nobel Prize Winners in Physics in Russia.

- The first Nobel Prize in Physics to a Russian was awarded in 1958 to Profs. Igor E. Tamm, Iliya M. Frank, and Pavel. A. Cherenkov for discovery, exact formulation, and explanation

of the Vavilov-Cherenkov effect;

- In 1962 the Nobel Prize was awarded to Prof. Lev D. Landau for his pioneering research and contribution to condensed media, especially - liquid helium;
- In 1964 the Prize was shared by Prof. Alexander M. Prokhorov, Prof. Nikolay G. Basov, and Prof. Charles Townes (MIT, USA) for seminal contributions to quantum electronics, which resulted in creation of new types of masers and lasers;
- The last Nobel Prize in Physics (prior to that to Prof. Zhores Alferov that is) in 1978 (22 years ago) was awarded to the outstanding Russian physicist Prof. Pyotr L. Kapitza for fundamental contributions to low temperature physics.

The IEEE Russia Section is indeed proud to have Prof. Zhores Alferov in its ranks.

*Dr. Henrich S. Lantsberg
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Correction

In the article on the hosting of the Region 8 Committee meeting by the Egypt Section, which appeared in the February 2001 issue of the *Region 8 News*, Joel Snyder was incorrectly identified as Bruce Eisenstein, the IEEE President for 2000, both in the text and the caption for the accompanying photo. Joel Snyder was of course the President-Elect in 2000, and is the current President for 2001.

I offer a sincere apology to both gentlemen for this mistake, and apologize for any embarrassment this may have caused them.

*Duncan Baker, R8News Editor
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In Memoriam - Prof. A.Y. Bilal

The Region 8 Committee has been greatly saddened by the sudden death of Professor A.Y. Bilal, who passed away on 28 January 2001, aged 67, and who was a much valued and respected member of the Committee. He was the Chair of the Egypt Section, and Director of the National Telecommunication Institute (NTI).

Professor Bilal received his BSc and MSc degrees in Electrical Engineering at Alexandria University in 1956 and 1959 respectively. He also received MSc degrees in Electrical Engineering and Applied Mathematics, and a PhD degree in Systems and Control from the University of Michigan in Ann Arbor, USA in 1961, 1963 and 1963 respectively.

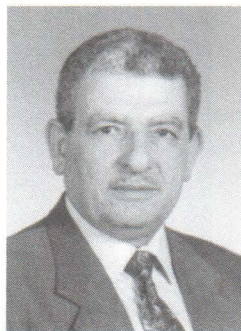
From 1963 to 1969 Professor Bilal worked as Director of Control and Guidance and Flight Mechanics Research in the Egyptian Aero Organization. In 1970 he joined the Electronic and Communication Department, Faculty of Engineering at Cairo University as an Associate Professor of Systems and Control. In 1974 he was appointed

Professor in the same Department. He was Chair of the Department from 1990 to 1993

Professor Bilal established the Electrical Engineering Department at the King Abdel Aziz University in Jeddah, Saudi Arabia and chaired it from 1977 to 1979. He also established the National Telecommunication Institute (NTI) in Egypt and was Director from 1983 until his death. In 1988 he was appointed as senior consultant for the Ministry of Education to implement computer information technology in Egyptian secondary schools.

He received the Egyptian National Award for best research in engineering in 1964 and 1974. President Nasser decorated him in 1964 with the decoration of the Republic of Egypt. In 1974 President Saddam decorated him with the decoration of Merit.

Professor Bilal was a member of



Professor A.Y. Bilal

numerous different professional societies and committees, including EAMEC, ECS, IEEE, URST and the New York Academy of Science, USA. He was also the Chair of the IEEE Egypt Section. He served on the Board of Directors of the Egypt National Regulation Council of the Ministry of Telecommunication and Information, the Institute of Electronic Research, The Egyptian National Academy of Science and Technology, and the Scientific Computer Center of Ain Shams and Helwan Universities.

His research interests covered a wide spectrum in the fields of Control Systems, Telecommunications and Information Technology. He published over 80 papers in scientific journals and conferences, and supervised more than 40 MSc and 20 PhD candidates.

He is survived by his wife, Professor Lila Kamel, Professor of Public Health, at the Faculty of Medicine of Cairo University.

Spain Hosts Region 8 Committee

The Spain Section graciously hosted the Region 8 Committee Meeting over the first weekend of March 2001. Although the delegates found that the unseasonal rain did fall mainly on the plain in Spain, this was completely offset by the warmth of the welcome and hospitality extended by the Spain Section.

The committee meeting afforded the Spain Section the opportunity to acknowledge the contributions of many of their members in public. At the official dinner function Third Millennium Medals were awarded in recognition of their valued services to the Spain Section to:

- Prof. Dr. Miguel Calvo Ramón
- Prof. Dr. José Antonio Delgado Penín
- Dr. Javier Eguren Albistegui
- Prof. Dr. Antonio Elías Fusté
- Prof. Dr. Aníbal Ramón Figueiras Vidal
- Prof. Dr. Ramón García Gómez



From left to right, Dr. Ray Findlay, IEEE President Elect, Prof. Mariano Baquero Escudero (representing Prof. Dr. Luis Vergara Domínguez, who was unable to attend the ceremony), Prof. Magdalena Salazar-Palma, Prof. Dr. Ramon García Gómez, Prof. Dr. Manuel Sierra Pérez (additionally, he represented Prof. Miguel Calvo Ramón, who was unable to attend the ceremony), Prof. Dr. Antonio Elías Fusté, Prof. Dr. Antonio Luque López, Prof. Dr. Aníbal Ramón Figueiras Vidal, Prof. Dr. José Antonio Delgado Penín (additionally, he represented Prof. José Bernardo Mariño Acebal, who was unable to attend the ceremony), Prof. Dr. Fernando Sáez Vacas, Dr. Javier Eguren Albistegui, Dr. Isaac Adekanye (see separate photo), Prof. Levent Onural, Region 8 Director.

- Prof. Dr. Antonio Luque López
- Prof. Dr. José Bernardo Mariño Acebal
- Prof. Dr. Manuel Sierra Pérez

- Prof. Dr. Fernando Sáez Vacas
- Prof. Dr. Luis Vergara Domínguez

continued on page 4

At the same function the IEEE RAB Outstanding GOLD Program Award for 2000 was made to the Nigeria Section in recognition of the sterling work done by Isaac Adekanye and his team. Isaac was present to receive the award.

As part of the festivities various Student Branches presented projects which they had been involved with. The breadth and scope of these projects augurs well for the engineering profession. What was possibly even more important was that the passion and enthusiasm with which the projects were presented spoke of a considerable



Levent Onural (Region 8 Director left), gets in some words of encouragement to Isaac Adekanye for the sterling work being done in the Nigeria Section.

depth of future IEEE leadership amongst the students. This can only be to the bene-

fit of the IEEE and the profession.

As is the case with all the Region 8 committee meetings, the schedule was so tight that there was little time for sightseeing. The delegates were taken on a whirlwind tour of one of the palaces built in the Moorish style. To many this was merely a sampler, which would ensure an early return to Spain for a more leisurely holiday. This was followed by dinner, and a display of flamenco dancing. The energy and brilliance of the performances left the delegates totally exhausted - but the dancers looked as fresh and tireless at the end, as when they started.

2001 Awards and Recognitions

The following colleagues in Region 8 were honoured by IEEE in the latest round of Awards and Recognitions. We extend to all of them our sincere congratulations.

- **IEEE Larry K Wilson**

Award – Maurice Papo, Director of Region 8 1997-1998. *For significant contributions in making the IEEE an effective global organization.*



Maurice Papo

- **IEEE Heinrich Hertz**

Medal – Adrianus T. de Hoop, Member, Lorentz Chair Emeritus Professor, Delft University of Technology, Laboratory of Electromagnetic Research, Delft, The Netherlands. *For fundamental contributions to the theory of reciprocity and to the understanding of electromagnetic wave propagation in layered media.*

- **IEEE Ernst Weber Engineering**

Leadership Recognition (2 recipients) – Michael J. Birck and Christopher Martin Earnshaw, Non-

member, Group Engineering Director and Chief Technology Officer, British Telecommunications Plc (BT), United Kingdom. *For technical and managerial leadership as Chief Technology Officer of British Telecommunications in the development and introduction of advanced networking technologies and communications platforms.*

- **IEEE Control Systems Award** –

Keith Glover, Fellow, Professor and Deputy Head, Department of Engineering, University of Cambridge, Cambridge, England, United Kingdom. *For pioneering and fundamental contributions to robust controller design and model order reduction.*

- **IEEE Masaru Ibuka Consumer**

Electronics Award – Ulrich Reimers, Senior Member, Professor, Institute of Nachrichtentechnik, Vechelde, Germany. *For visionary leadership in the development of digital video broadcast (DVB) standards and implementation guidelines for satellite, terrestrial and cable equipment.*

- **IEEE Internet Award** – Louis H.

Pouzin, Non-member, Professor, Technology, Theseus, Sophia Antipolis, France. *For his pioneering development and effective advocacy of datagram networking, the technology that enabled the rapid, inexpensive, decentralized expansion of the Internet.*

- **IEEE Nikola Tesla Award** – Steve

Williamson, Fellow, Professor, Department of Electrical Engineering & Electronics, University of Manchester Institute of Science & Technology, Manchester, United Kingdom. *For the development of advanced mathematical models and computational tools for induction machine design.*

- **IEEE Donald G. Fink Prize Paper**

Award – Xin Yao, Senior Member, The University of Birmingham, School of Computer Science, Edgbaston, Birmingham, United Kingdom. *For his paper entitled: "Evolving Artificial Neural Networks," Proceedings of the IEEE, Vol. 87, No. 9, September 1999, pp. 1423-1447.*

Section and Chapter News

FRANCE

In Memoriam: Prof. Emile Pillet

Emile PILLET, born in 1907, graduated from 2 prominent French academic institutions, Ecole Nationale Supérieure des Arts et métiers and Ecole supérieure d'électricité. He got his PhD degree with a remarkable work on "transitory phenomena in synchronous machines."

He was the Head of the electrotechnical department in Institut National Polytechnique in Grenoble for many years and has been the president of numerous PhD examining committees. Many professors in French universities in this speciality were his disciples.

Emile PILLET was a Life Senior Member of the IEEE.

Jean Gabriel Remy
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The Power Electronics Society Chapter of the France Section has changed status to include the Industrial Electronics and Industry Applications Societies. The effective date of this Chapter change is 5 December 2000. The interim Chair is Professor Gerard Capolino (*gerard.capolino@u-picardie.fr*).

The Nuclear and Plasma Sciences Society Chapter of the France Section has been formed. The effective date of this Chapter formation is 14 December 2000. The Interim Chair is Dr. Jean Luc Leray (*jean-luc.leray@ieee.org*).

The Antennas and Propagation Society Chapter of the France Section has been formed. The effective date of this Chapter formation is 7 February 2001. The interim Chair is Dr. M. Drissi (*mdrissi@insa-rennes.fr*).

Evening lectures (followed by a cocktail) at the headquarters of F.I.E.E.C., 17, rue Hamelin - 75116 PARIS, organized by professor Michel CARPENTIER

- March 20th, 2001: "Smart antennas" by Professor Joseph SAILLARD, University of Nantes
- April 24th, 2001: "Simulation of nuclear weapons" by a speaker from C.E.A. (French Nuclear Agency)

- May 22nd: "Security in information systems" by Michel DUPUY, French Ministry of Defence/SGDN
- June 19th: "Present situation of Global Navigation satellites systems G.N.S.S." by ingénieur principal de l'armement (major) Benoit HANCART, D.G.A./D.S.P.

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HUNGARY

Professor Bruce A. Eisenstein, President of IEEE paid a visit to the IEEE Hungary Section in November 2000. The Hungarian Academy of Sciences invited him to present a lecture taking advantage of the coincidence of his visit with its 175th year anniversary. The Hungarian Academy of Sciences was established by István Széchenyi in 1825.

The meeting was organized by the IEEE Hungary Section. President Eisenstein gave his talk in the classical building of the Academy.

President Eisenstein also accepted an invitation to a big conference on telecommunications organized by the PKI Telecommunications Institute. He addressed an audience of more than 400 experts. Later he greeted the High-Speed Networks workshop organized jointly by the Ericsson Company and the Budapest University of Technology and Economics. At the end of the visit he was taken to a sightseeing private tour in Budapest.

The IEEE Hungary Section was honoured by the President's visit and can utilize it to extend its activity.

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ITALY

Seminar Report:

Information protection - From the Caesar code to Quantum Cryptography

On November 21, 2000 the seminar cited above was held in Roma, Italy at the University of Roma Tor Vergata, Engineering Faculty. The seminar, organized by the Università di Roma Tor Vergata (DISP) and Vito Voterra Centre, IEEE,

Central & South Italy Section (chaired by Prof. D. Solimini) and SP & AES Chapter, IEEE Student Branch in Tor Vergata, with the support of IEEE AESS Central Offices, took place within the framework of the Course on "Information and Coding" presented by Prof. M. Ruggieri - IEEE AESS BoG Member.

The speaker at the Seminar was Prof. Gaspare Galati - Chairman, IEEE SP & AES Chapter, Central & South Italy.

There was a total attendance of 50 people (15 IEEE members). Those present were from Italian industries (Alenia Aerospazio, Contraves, Eltag Bailey) and Universities, students of the IEEE Student Branch and, obviously, the students of the Course of "Information and Coding".

The seminar was presented in two 45 minute segments, separated by a presentation by Prof. M. Ruggieri about the AESS and the newly created Space Systems Panel, which she manages.

During the seminar, the Jubilee Issue of the AESS Magazine, kindly provided by AESS, was distributed to the attendees.

SEMINAR SUMMARY (Speaker: Prof. G. Galati)



Professor
Gaspare Galati

The need to protect information related to military, diplomatic or other sensitive applications is over ten centuries old. Simple, mono-alphabetic codes were used in the Roman age, and in the Renaissance they have been superseded by multi-alphabetic codes (Leon Battista Alberti and Blaise Vigenere). From the beginning of the XX century, automatic coding has been implemented by electro-mechanical machines (the most famous being the German machine ENIGMA, whose messages were decoded during the World War II by the British team in Bletchley Park with the main contribution by Alan Turing). During the '60s, computer-based cryptography was used (such as the Lucifer code by IBM) and standardized during the '70s both for the single key, sym-

continued on page 6

Section and Chapter News *continued*

metric solution (DES : Data Encryption Standard) and for the public-private keys asymmetric solution (Diffie-Hellman and RSA). New algorithms and standards have been proposed for the post- 2001 era. Moreover , the need for increased robustness during the very critical phase of the distribution of crypto keys has led , in the '90s, to study and to develop at prototype level the novel Quantum Keys Distribution technique, based on Quantum Mechanics, using the polarization of single photons or, more recently, "entangled" states of photons of a couple .

SPACE SYSTEMS PANEL PRESENTATION SUMMARY

(Speaker: Prof. M.Ruggieri,)



Professor Marina Ruggieri

The aim of the panel is the involvement of the AESS in significant technical and scientific initiatives related to the space world. In particular, efforts will be devoted to linking AESS activities to the space industry.

The AESS represents a broad technical and scientific culture. Therefore, an interesting task is the exploitation of this different expertise through contributions to the panel on the following topics:

- System definition and design
- Technology
- Applications.

The panel is organized into three main areas, which will be interfaced through

exchanges between the three area co-ordinators and the panel manager.

The areas are the following:

1. Satellite Communications Systems (Prof. Marina Ruggieri University of Roma Tor Vergata – DEI - Italy)
2. Space Exploration Systems and International Space Station (Dr. Carlo Bonifazi Italian Space Agency (ASI) – Roma – Italy)
3. Space-based Navigation Systems and Synthetic Aperture Radar Systems (Prof. Gaspare Galati University of Roma Tor Vergata – DISP - Italy)

The list of participants to the three areas is under consideration.

The development of links in the space world is among the aims of the panel. These co-operations should then include Space Agencies (the co-operation with ASI in the frame of Area 2 is already active) of various countries, the space industry and research centres involved in space activities.

To participate in the panel, please contact:

Prof. Marina Ruggieri – Panel Chair
University of Roma Tor Vergata –
Dpt. Electronics Engineering
Via di Tor Vergata, 110 – 00133
Roma – Italy
Ph: +39-06-7259 7451
Fax: +39-06-7259 7451
E-mail: ruggieri@uniroma2.it

MACEDONIA

The Industrial Electronics/Industry Applications/Power Electronics Society

joint Chapter of the Republic of Macedonia Section has been formed. The effective date of this Chapter formation is 5 December 2000. The Interim Chair is Dr. Goce L. Arsov (g.arsov@ieee.org).

POLAND

The Magnetics Society Chapter of the Poland Section has been formed. The effective date of this Chapter formation is 30 January 2001. The interim Chair is Marian Soinski (magneto@icz.com.pl).

The Lasers and Electro-Optics Society Chapter of the Poland Section has been formed. The effective date of this Chapter formation is 7 February 2001. The interim Chair is Dr Marian Marciniak (marian.marciniak@ieee.org).

UKRAINE

The Antennas and Propagation/ Aerospace and Electronic Systems/ Electron Devices/Microwave Theory and Techniques/Geoscience and Remote Sensing/Lasers and Electro Optics Society joint Chapter of the Ukraine Section (East) has changed status to include the Nuclear and Plasma Sciences Society. The effective date of this Chapter change is 29 December 2000. Dr. Shifrin's e-mail is shifrin@kture.khozkov.ua.

YUGOSLAVIA

The Computer Society Chapter of the Yugoslavia Section has been formed. The effective date of this Chapter formation is 21 December 2000. The Interim Chair is Professor Mile K. Stojcev (stojcev@elfak.ni.ac.yu).

IEEE Volunteers to Help at Scout Jamboree

As an example of how IEEE members involve themselves in the activities of their communities, members will be assisting as volunteers at the Electricity and Electronics Merit Badge Booths at the 15th Scout Jamboree in the USA. The IEEE is the title sponsor of the Electronics Merit Badge

Booths and co-sponsor of the Electricity Merit Badge Booths. Volunteers are primarily needed for the position of merit badge instructor. While volunteers can volunteer for just one day, it is preferred that they volunteer for at least two days.

The National Scout Jamboree will be

held from Monday, 23 July 2001 through Wednesday, 1 August 2001 at Fort A. P. Hill, Virginia. The Jamboree site is near Bowling Green, Virginia, which is between Richmond and Fredericksburg.

John P. Castelvechi
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News from Region 10 – Karachi Section

Following a discussion with IEEE Members at the Region 10 Meeting held in Malaysia in 2000, the IEEE Karachi Section has launched a pilot project of "IEEE in Academia" to promote academic research and collaboration with universities in IEEE Regions. The Section has initiated correspondence with IT and Engineering Universities in Australia, New Zealand, Singapore, Malaysia and Canada, which may be interested.

The project will provide a platform to faculty of leading engineering and IT institutes in Karachi Section to explore international collaborations for faculty exchange

and research, student projects and visits, split programs etc.

I request the Sections in Region 8 to participate in the project. I would appreciate it if you could nominate a representative from one of your Sections to coordinate it.

The IT industry in Pakistan is going through a renaissance. The pilot project can later be expanded to include the software houses etc. For information about the IT & Engineering industry in Pakistan, please visit: Pakistan Software Export Board (<http://www.pseb.org.pk/>), Information Technology Commission,

Government of Pakistan
(<http://www.itcomm.gov.pk/>), Pakistan
Computer Bureau
(<http://www.pcb.com.pk/>), Pakistan
Engineering Council
(<http://www.pec.org.pk/>) and the Pakistan
Software Houses Association (PASHA)
(<http://www.pasha.org.pk/>).

I look forward to the active participation of the IEEE members in Region 8.

Fasih Ahmed Masood

Vice Chairman

IEEE Karachi Section

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<http://www.ieee.org/karachi>

IEEE Region 8 Student Paper Contest 2001

When the deadline of 15 December 2000 was passed, 14 papers had been submitted for the IEEE Region 8 Student Paper Contest 2001 by 13 student branches from 10 countries: Austria, Germany, Greece, Iran (2+1), Israel, Malta, Netherlands (1+1), Nigeria, Slovenia (1+1), and Switzerland.

Five jury members then started the difficult job of ranking the 14 papers:

- Norbert Fristacky (Bratislava, Slovakia),
- Jordan Kolev (Varna, Bulgaria),
- Javier Macias-Guarasa (Madrid, Spain),
- Kurt Richter (Graz, Austria), and
- Martin Bastiaans (Eindhoven, Netherlands; co-ordinator).

The jury chose the following six papers for presentation at the oral finals, which will take place in conjunction with Eurocon, Bratislava, Slovakia, 5-7 July 2001.

- Nikos Batsios (Aristotle University of Thessaloniki, Greece), A CDMA/PRMA protocol for LEO constellations.
- Johann Großschädl (Graz University of Technology, Austria), Area-efficient VLSI implementation of arithmetic

operations in the binary finite field $GF(2^m)$.

- Rita Mayer-Sommer (Swiss Federal Institute of Technology, Zurich, Switzerland), Smartly analyzing the simplicity and power of simple power analysis on smartcards.
- Arjan Meijerink (University of Twente, Enschede, Netherlands), Performance improvement of a generalized coherence multiplexing system.
- Claire M. Seguna (University of Malta), The design, construction and testing of a dexterous robotic end effector.
- Matjaz Divjak, Ales Holobar, and Iztok Prelog (University of Maribor, Slovenia), VIDERO – Virtual delivery room.

Although the jury had to do a difficult job, the final result shows a good agreement between the individual rankings of the jury members as well as a good discrimination between the different papers.

- **Difficult job:** The average ranking of the numbers 1-6 reads 64, 63, 63, 63, 62, and 60 (out of 70: 45 for the technical content, 25 for the written presentation). It is amazing to see how close

they are, and it shows how hard the job was that the jury had to do!

- **Good agreement:** All jury members will recognize at least five papers that also appear in their personal top six!
- **Good discrimination:** There is a gap between the numbers 1-6 and the numbers 7-11, which is larger than the gaps between the successive numbers in these two classes: the average ranking of numbers 7-11 is 57, 55, 53, 52, and 52. The other papers have an average ranking of 42 or less.

We look forward to the oral finals at EUROCON, where the jury will further rank the papers based on the oral presentation (up to 30 points). Based on the results so far, all six finalists have almost identical chances to become the winner!

IEEE Region 8 would like to thank the jury members for carrying out a difficult task and all the students who have participated in the contest for submitting their papers.

Martin Bastiaans

*IEEE Region 8 Student Paper
Contest co-ordinator*

Potentials Magazine Call for Manuscripts

The IEEE Potentials Magazine is soliciting manuscripts for all aspects of electrical, electronic, and computer engineering and computer science.

The IEEE Potentials Magazine goes to all student members of the IEEE in the USA and Canada, presently about 45 000, and to students elsewhere by subscription.

The level of the article is addressed to the undergraduate student and has several objectives:

- interesting the student in a topic for further study
- explaining technological advances in an area

- a forum for technical ideas
- articles of interest technically

It should be stressed that the article should not try to mystify the student but to enable the student to learn more about technical material that he/she may/may not become acquainted with in their formal course work.

Length of article can be no more than 10 manuscript pages (8 1/2-11) reduced by number of figures – shorter papers are also acceptable.

The manuscripts are reviewed by: students, faculty, researchers in the area and then a decision is made as to whether to

publish or not.

Further information can be found at:
<http://www.cs.umn.edu/potentials>

If interested, contact:

Dr. George W. Zobrist

Professor Emeritus

Associate Editor, IEEE Potentials
Magazine

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DEADLINES

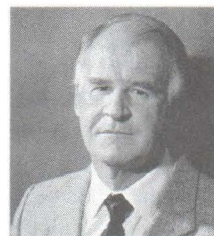
The deadlines for the remaining issues of the *Region 8 News* for 2001 are as follows:

Aug. 2001 issue – 4 June 2001

Nov. 2001 issue – 5 Sept. 2001

Only high priority items can be accommodated after the deadlines since the publication schedule is linked to the production and shipping schedule of *IEEE Spectrum*.

Duncan Baker
Region 8 News Editor
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Conferences

EUROCON 2001

(4), 5 - 7 July 2001

Bratislava, Slovakia

The re-establishment of Region 8's Conference EUROCON in 2001 is an excellent idea. The IEEE can and should play an important role in Central and Eastern Europe. Given the current circumstances, it can make a meaningful contribution to the technological development of this important area.

The conference venue is centrally located. Low cost accommodation is available, thus keeping total travel costs low.

A number of additional activities such as workshops and tutorials are planned. These will be at no extra charge to the delegates. There will be also the student paper contest to showcase the quality of the contributions by students in Region 8.

An Accreditation workshop, which has a bearing on university engineering programs, has been planned after the conference to provide added value.

Globalization of competition and the marketplace also means that tomorrow's engineer must be able to accept new challenges, and that his/her education MUST be suited to the task.

On the second day of the conference there will be a video link-up with several universities from the conference venue.

Let us mention also the Videoconference on the second day, linking several universities to the site of the Conference.

Below you will find some short descriptions of the events planned for the conference. More information can be found at <http://www.ktl.elf.stuba.sk/>

EUROCON/. This site will be updated during the course of the next few months.

Educational activity

On 4 July 2001 there will be two parallel workshops in the morning on Project Management and Leadership Management. These are shortened versions of 1 - 1.5 day fulltime workshops.

In the afternoon of the same day the first tutorial sessions will be held. These will cover:

- *Third-Generation Wireless Standards, Algorithms and Future Solutions: Burst-by-burst Adaptive Multimedia Transceivers* (Prof. Lajos Hanzo)
- *Software defined radio* (Prof. Bahram Honary)
- *New Media in Education*. In this tutorial 5-6 lectures will expound on the role of the Internet to interface between students and professors, and a new approach to university education - distance learning.

Prof. Ramjee Prasad will give a tutorial on UMTS on Saturday afternoon 7 July 2001.

Technical program

The opening ceremony will take place on Thursday morning 5 July 2001. The keynote speaker will be Prof. Richard Blahut. All the Sessions will take place during next three days.

Videoconference

At Eurocon 2001 - a traditional type of a conference - the videoconference on Friday morning 6 July 2001 will address Video

and Image Processing for Personalized Applications. This will link several invited universities to Eurocon 2001. The aim is to observe professional, technical and performance features of the new media.

Accreditation workshop

After Eurocon 2001, on Sunday and Monday 8 and 9 July 2001, the workshop will concentrate on how universities in different countries are accredited. To have an accredited program is becoming increasingly important since the mobility of engineers and also students is growing and will be even more so in the future.

Rest assured, there will be more than enough to interest attendees who are not themselves presenting papers.

Participants from low income countries with an accepted paper(s) will be able to apply for a 50% reduction in fees (except for students). The registration fee will be US\$100 for early payments, with a student fee of \$50. We are actively seeking sponsors to assist with the reduction of fees for participants, who would otherwise not be able to attend.

We are endeavouring to re-establish EUROCON as an important regular IEEE Region 8 sponsored conference for members and potential members.

Baldomir Zajc

*R8 Past Conf. Coordinator
b.zajc@ieee.org*

Peter Farkas

*EUROCON Vice-chairman
p.farkas@ieee.org*

Calls for Papers

EDMO 2001

15 - 16 November 2001

Vienna, Austria

The 9th IEEE International Symposium on Electron Devices for Microwave and Optoelectronic Applications

The symposium is jointly organized by the Technical University of Vienna, Austria,

the IEEE Microwave Theory & Techniques Society, the Electron Devices Society, the Antennas & Propagation Society and the Lasers and Electro-Optics Society.

The symposium will be held in the Technical University of Vienna. Vienna has regular and frequent road, rail and air links to international destinations.

As in previous years, the purpose of EDMO 2001 will be to provide a forum for microwave and optoelectronic device designers, technologists and end-users to discuss advances in device performance and systems requirements.

continued on page 6

Calls for Papers *continued*

The key topics for the symposium are:

- Advances in III-V transistors (HEMTs and HBTs) for mm-wave applications
- High speed laser diodes, optical modulators and photodetectors
- Si and SiGe based devices for RF and optoelectronics applications
- Modelling of microwave and optoelectronic devices
- Wide bandgap devices for microwave and optoelectronic applications
- Novel material (semiconductor/polymer/amorphous) optoelectronic and microwave devices
- Low distortion microwave devices for efficient mixer and power amplifier applications
- Optical control of microwave and mm-wave devices
- Microwave and optoelectronic photonic crystal devices
- Components for fibre radio applications

Exhibition

Exhibitors are invited to take part in the technological exhibition associated with the symposium

Deadlines:

Abstract - 10 September 2001

Final Paper - 18 October 2001

*Prof. Dr. techn. Gottfried Magerl,
Symposium Chairman*

Prof. Dr.-Ing. Horst Zimmermann,

Symposium Co-Chairman

Technische Universität Wien

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For further information contact:

EDMO Symposium Secretary: Dawn

Cloake: Tel/Fax: +44 (0) 20 8581 3390

E-mail: enquiries@edmo-symposium.org;

Latest news: <http://www.EDMO-Symposium.org>

EMC SYMPOSIUM AND EXHIBITION

**Wroclaw, Poland
25 - 28 June 2002**

Dear Colleagues,

It is a great pleasure to extend to you, on behalf of the Organizers, the invitation to participate in the 16th International Wroclaw EMC-2002 Symposium. This invitation is addressed to our friends and colleagues that contributed to the previous Wroclaw Symposia and to those who did not yet participate.

As the technology progresses and convergence pushes us towards the "Information Society," the issue of electromagnetic interactions, spectrum congestion,

and a rational use of spectrum resources is of increasing importance.

Following the suggestions made at previous occasions, the program will address key problems related to EMC. Different kinds of papers are solicited, including research papers, lessons learned, status reports, discussion papers, etc. The ultimate goal is to build a broad and comprehensive symposium program that could match the interests and needs of different participants from industry and academia.

Information for authors:

- Summary received by September 7, 2001
- Notification of acceptance and author's kit mailed November 16, 2001
- Camera-ready Manuscript by February 15, 2002

Postal address: EMC Symposium, Box 2141, 51-645 Wroclaw 12, Poland.

For express post: EMC Symposium, c/o National Institute of Telecom., Swojczycka 38, 51-501 Wroclaw, Poland.

General information: Mr. W. Moron, phone: +4871 348 3051, fax: +4871 372 8878, e-mail: emc@il.wroc.pl or Dr. W. Sega, phone: +4871 348 3051, fax: +4871 372 8878 or 372 9375,

<http://www.emc.wroc.pl/>

Dariusz Wiecek

Symposium Organizing Chairman

Calendar of Events

IDAACS'2001

1 - 4 July 2001

Foros, Crimea, Ukraine

The International Workshop on "Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications" (IDAACS'2001), will be held in Resort Center Foros, Foros, Crimea (Ukraine) in first week of July 2001.

The focus of the IDAACS'2001 Workshop is to report on the state-of-the-art Theory, Technology and Applications of Intelligent Data Acquisition and Advanced Computer Systems as used in measurement, automation, and scientific research,

in industry and business.

For more details on submissions and all information concerning IDAACS'2001 please look the web site <http://www.idaacs.ssft.net/> or contact:

Prof. Anatoly Sachenko

Director of Institute of Computer Information Technologies, Ternopil Academy of National Economy, 3 Peremoga Square,

46004 Ternopil, Ukraine

Phone: +380 (352) 33-0830

Fax: +380 (352) 33-0024 (24 hrs)

E-mail: idaacs@tanet.edu.te.ua

<http://www.idaacs.ssft.net/>

HISTORY OF

TELECOMMUNICATIONS

25 - 27 July 2001

**St. John's, Newfoundland
Canada**

The IEEE Conference on the History of Telecommunications (CHT2001) will be held 25-27 July 2001 in St. John's, Newfoundland, Canada. CHT2001, is sponsored by the IEEE History Committee and IEEE History Center at Rutgers University. The emphasis of this conference will be on telecommunication events of the last 50 years, although papers on all periods will be considered. Most papers will deal, at least in part, with the tech-

Calendar of Events *continued*

nologies themselves; some of the participants will be engineers who have participated in the developments. The conference will consist of two and a half days of paper presentations and discussions, poster session, shared breakfasts and lunches, and optional evening activities and excursions.

Through a grant from the IEEE Foundation, CHT2001 will conduct a world-wide paper competition among the IEEE Student Branches and offer the winner in each of the 10 IEEE Regions an opportunity to travel to St. John's and present their winning paper at Poster Sessions during this Conference. In addition, each winner's Student Branch will receive an honoraria and the top three paper winners will win \$200, \$100 and \$50 for First, Second and Third place papers, respectively.

Abstracts are due by 2 March 2001. Contact MailTo: history@ieee.org for more information or check the web site at: http://www.ieee.org/history_center/cht2001.html.

SCOOP
January 2001

SSP2001

6 - 8 August 2001
Orchid Country Club
Singapore

11th IEEE Workshop on Statistical Signal Processing (formerly SSAP) 2001

The 11th IEEE Workshop on Statistical Signal Processing (formerly SSAP) will be held at the Orchid Country Club, Singapore, during August 6-8 2001. The aim of the workshop is to bring together engineers, mathematicians and scientists from all over the world to present their work in major aspects from theoretical and methodological developments to practical applications of statistical signal processing. The three-day workshop will feature plenary talks on key developments in theoretical and practical areas of statistical signal processing. The venue of the workshop offers a conducive environment for interaction, with on-site accommodation and excellent facilities amidst picturesque and tranquil grounds.

The workshop is sponsored by IEEE Signal Processing Society.

Deadline for Summary submission - March 01, 2001

For more information please refer to the

web site for submission of Extended

Summary electronically:
<http://ssp2001.bizcal.com>.

If you have any inquiries pertaining to the workshop, please don't hesitate to contact the General co-Chair, Dr. A Rahim Leyman, at leyman@ieee.org.

Editor's Note - Readers may wonder why a conference in Singapore is advertised. In fact, for many of our colleagues it is as easy to get to Singapore as it would be to get to, say, Zurich, Berlin or London.

ICECS 2001

2 - 5 September 2001
Malta

The 8th IEEE International Conference on Electronics Circuits and Systems will be held at the Westin Dragonara Resort in Malta on the 2-5 September 2001. ICECS is a major international forum presenting design methodologies, techniques and experimental results in emerging electronics, circuits and systems topics. ICECS has developed into the flagship conference of the IEEE CAS Society in Region 8, with participants from all over the world.

The conference will include regular, special and poster sessions, on topics covering analog circuits and signal processing, general circuits and systems, digital signal processing, VLSI, multimedia and communication, computational methods and optimization, neural systems, control systems, industrial and biomedical applications and electronic education.

Detailed information on the conference can be found on our web site at address: <http://www.eng.um.edu.mt/microelectronics/icecs2001/>

Venue: Malta is a small island in the middle of the Mediterranean Sea. Malta is well known for its hospitality to visitors. The blue sea, warm sunshine, and rich archeological and cultural heritage extending over seven millennia from Neolithic temples to Roman times to the Knights of Malta, provide an interesting backdrop to the conference.

For further information regarding the Conference please contact:
Dr. Carl James Debono
Department of Microelectronics

University of Malta
Msida MSD 06, Malta
Tel: (+356) 32902388
Fax: (+356) 343577
E-mail: cjdebo@eng.um.edu.mt

HMS 2001

18 - 20 September 2001
Kassel, Germany

The eighth IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems

The symposium focuses on human-machine systems and human interactions with dynamic technical processes and with software applications. Technology and human roles in different cultures are also considered as well as cross-disciplinary experience from dancing and music. Three sessions are dedicated to design support and new approaches to design. Multi-modality and multimedia-based interaction styles will be demonstrated in contributions to the three sessions of multi-modal interfaces, virtual systems and new interactions styles. Two other sessions concentrate on human-centred automation and usability engineering, driving forces towards realising the symbiosis among human, society, nature, and artefact. The human part is also covered, especially in the sessions on learning, training, qualification, work organisation, or attention, trust, and situation awareness.

About 100 high-quality papers have been accepted for three parallel streams, along with three discussion sessions, a large number of posters, and four plenary papers presented by speakers of high reputation. Following Cambridge/USA and Kyoto/Japan, this symposium returned to Germany, where it was born 19 years ago. With the opening of the iron curtain, Kassel, a city of arts, culture and engineering since centuries, became located in the centre of Germany and Europe as well and can easily be reached by train from the international airports of Frankfurt, Hamburg, or Berlin.

For further information contact:
Systems Engineering and Human-Machine Systems
University of Kassel, 34109 Kassel, Germany
hms2001@imat.maschinenbau.uni-kassel.de
<http://www.imat.maschinenbau.uni-kassel.de/hms2001>

New Volunteer Global Travel Accident Medical Plan 1

IEEE has established a new travel accident and medical plan to protect IEEE Volunteers who become ill, or injured, and require immediate medical attention while traveling on authorized business outside of their country of permanent residence. Please distribute this information to all appropriate IEEE volunteers in your Section/Society, and encourage volunteers to visit the "Volunteer Resources" web page at http://www.ieee.org/organizations/vols/global_trav_acc_med.html for updated information and FAQ's.

The plan, which was approved by the IEEE Executive Committee and went into effect on 1 January 2001, provides IEEE Volunteers with protection equal to 80% of reasonable and customary charges for medical expenses incurred while traveling on IEEE business, subject to the following conditions:

- Coverage begins when the Volunteer leaves his or her country of permanent residence on authorized IEEE business travel (defined as travel that is paid for by IEEE), and ends upon return to that same country. This plan does not apply to travel to and from a conference, unless that travel is for authorized IEEE business purposes.
- The individual's personal insurance, employer group medical insurance, and / or national / government health plan, to the extent coverage is available outside the home country, is considered primary. If an individual does not have a policy that provides this type of coverage, then the IEEE Plan becomes the primary coverage.
- Pre-existing conditions will be covered unless it is deemed that the individual traveled for the primary purpose of obtaining medical treatment.

The IEEE Plan is paid for by the Institute, and is provided to IEEE Volunteers at no charge.

Please note: Before an individual plans to travel on IEEE business outside of his or her country of permanent residence, that individual should be sure to check with

their own insurance carrier concerning coverage outside the home country.

Information pertaining to personal insurance coverage should be taken on the trip.

The plan also includes:

- 24-hour worldwide travel and medical assistance services,
- Coverage for transportation expenses associated with an emergency medical evacuation or repatriation of mortal remains in the event of death while traveling on IEEE business.
- Survivor benefit of \$5,000 in the event of accidental death.
- Medical evacuation or repatriation must be arranged through the assistance services provider.

Contact information is as follows:

- Outside U.S., call Collect +1 713 267 2525;
- Inside U.S., call Toll-Free +1 800 626 2427.

If medical evacuation (certified as necessary by the attending physician) or repatriation is needed, the assistance services provider will make all arrangements with the appropriate transportation services, and arrange for accompanying medical staff (if necessary), including coordinating medical case monitoring with attending and/or home country physician.

Questions concerning coverage, including how your personal insurance will be coordinated with the IEEE Plan, or how to submit claims should be directed to rosemary.porter@seabury.com.

Additional questions about the plan should be directed to Tom Lynch, IEEE Staff Director-Financial Services Department at t.lynch@ieee.org.

Maria Vuolo
Banking/Investment Administrator
Financial Services Department
Phone: + 1 732 562 5363
Fax: + 1 732 465 6456
E-mail: m.vuolo@ieee.org

IEEE Awards Board Calls For Nominations

The IEEE Awards Board Nominations and Appointments Committee (N&A) is

seeking nominations for these Awards Board positions for 2002:

- Award Board Vice Chair
- Awards Board Treasurer & Chair - Finance Committee
- Publicity and Presentations Committee Chair
- Medals Council Chair
- Technical Field Awards Council Chair
- Recognitions Council Chair
- (4) Members-at-Large

The submission deadline is 30 April 2001.

The Awards Board N&A Committee also is seeking the names of members who may be interested in serving on an IEEE Award/Medal Selection Committee. Nominations of individuals from all IEEE Regions are strongly encouraged. When submitting names, it would be helpful, though not essential, to mention if nominees have indicated their willingness to serve.

Submit nominees to Marybeth Denike, IEEE Awards/Fellow Activities, MailTo: m.denike@ieee.org.

Information on the IEEE Awards Program is available at <http://www.ieee.org/about/awards>.

The IEEE LEADERSHIP WIRE

26 January 2001

Vol. VI, No. 2

Online Research Tool

The IEEE Computer Society's Computing in Science and Engineering Portal (CiSE) is a useful research tool for the entire multidisciplinary scientific computing community, with experts in specific fields peer reviewing each domain. Domains already on the site include astronomy, chemistry, signal processing and visualization. Coming soon are biology, data mining, fluid dynamics and mechanical engineering. Selected materials from "Computing in Science & Engineering Magazine" can also be found throughout the site at <http://www.computer.org/ciseportal/>.

The IEEE LEADERSHIP WIRE

26 January 2001

Vol. VI, No. 2



IEEE
Networking
the World™

Editor: Jorge Luis Sanchez Ponz j.s.ponz@ieee.org

Welcome To The New Gold World!

We planned to launch a specific GOLD section in the Region 8 News and here it is. This is one of many initiatives we will be introducing to improve internal communications across the GOLD engineers. We hope that this section will raise your awareness of the achievements and challenges facing your colleagues in other GOLD affinity groups and countries. It will also provide news and current affairs

We recently checked that we were on the right track (IEEE Region 8 Meeting in Seville) and will deliver something you want to read! This project is still ongoing, so the purposes of this new section are to:

- Consider and announce GOLD activities: let us know your ideas, actions and proposals.
- Contribute to the new section by sending in articles that you would like to see published and you think that the matter concerns everybody (specially the GOLD World).
- Start working on the first IEEE Region 8 GOLD Congress 2002 (the budget is already approved). Remind you that you become GOLD when you get your first degree... but you can still be student (Master or Ph. D.)! Start a "value added" list of membership benefits for GOLD, so that each of us, young volunteers, has a ready answer to "what do I get from IEEE?" Identify and recognize the GOLD opportunities to participate.
- Increase the available resources for GOLD at any IEEE level.

As engineers our horizons may include politics, sports, entertainment, hobbies, our families and friends, and our specialties.

But how broad is our engineering horizon, even our electrical, electronic or computer horizon, and how would we benefit if it were broader?

Well, here are some reasons why you should consider honing your extra GOLD skills. Right now according to a draft of

"value added" benefits, an IEEE GOLD engineer is able to:

- Discover career opportunities and gain a better understanding of your field.
- Gain a competitive edge with the included IEEE Spectrum.
- Access world-class technical information provided by the IEEE and cut down your research time.
- Join IEEE technical societies in your areas of interest.
- Stay on the cutting edge with online resources available to members only: for technical information, planning a career move, or changing your e-mail provider.
- Network with peers and future employers in your field, gaining valuable leadership experiences and making career contacts.
- SAVE MONEY with substantial discounts on more than 15,000 IEEE books, journals, videos, and self-study courses.
- Take advantage of the tremendous buying power of the IEEE with programs such as Education Financing, Credit Cards, Automobile Insurance, Photocopies, Resume Design, Phone Cards, Long Distance Phone Services, and much more!
- Incorporate "Extra Skills" to our professional careers.

But none of these benefits will see you through twenty or more years of professional experience. It is only when you can enjoy learning and doing new things and broadening your horizons for your own sake that you can make the commitment to be successful by being GOLD engineer.

Fortunately, it is not so difficult to become a very good GOLD engineer. If you are already a proven GOLD engineer, good for you. Yet it is a part of life, and specially a part of working together in teams. If you do it well, you demonstrate a skill that many others don't possess. Although it doesn't involve engineering, it could still have a significant impact on the

success of your personal life. Then you can easily teach your colleagues these skills (your Section GOLD Affinity Group)!

Change is happening ten times faster in the new Millenium than in the nineties. And at the end of the day, we know the only prospect or ourselves competing successfully in the year 2010 is to be, through-out it, individuals (within a group) who share the vision and can bring it to life (GOLD World).

The first rule of thumb:

"If you copy someone else, the only thing for sure is that you will always be behind, and if you have it wrong, you will be even worse. So let's learn, let's observe, but let's work it out our own way".

More comments and ideas will come later. We will let you know how this all works out in the next months. If you have any questions or comments, please let us know.

Don't be held back by any securities about your ability to do anything. Think of the GOLD possibilities. Thanks for your help!

Jorge-Luis Sanchez-Ponz
IEEE Region 8 GOLD Coordinator
j.s.ponz@ieee.org

RAB Gold Award

Region 8 is delighted to announce that the



Isaac Adekanye

Nigeria Section was awarded the IEEE RAB Outstanding GOLD Program Award.

This means that the efforts of GOLD Nigeria are considered to be the best of 2000, compared to all other GOLD activities all over the world!

Congratulations to Isaac Adekanye and his team!

William Watté
Past R8 GOLD Coordinator
w.watte@ieee.org
<http://www.ieee.org/gold/>

continued on page 14

First Gold Meeting In IEEE Germany Section

On Friday, Nov. 10th 2000 IEEE members met for a discussion on the Graduates of the Last Decade (GOLD) program for the first time in the Germany Section. Some of the 9 visitors, including Treasurer H. Strack, had taken on long journeys to participate in the discussion on future activities.

After introducing each other, a summary on German and worldwide GOLD activities was given. Ideas and plans for additional GOLD projects within the Germany Section were presented and debated. The most important issue: which of the topics would be most useful for Recent Graduates and at

the same time feasible with respect to available resources.

All participants agreed that a major issue of the GOLD program is to provide information on the various subjects important for today's engineers – especially at the beginning of their career. Exchange of experience between the GOLD members was regarded as a vital aspect to accomplish this goal.

As a first step, the German GOLD web-pages (<http://ewh.ieee.org/r8/germany/gold/>) will be revised, updated and extended. They are to provide important information, news, dates etc. and to connect the GOLD members within the Section. Some of the visitors have assured their support for this task.

Also, the participants have expressed their demand for future meetings, e.g. on topics like professional skills, career management, exchange of experiences or just having fun.

Finally, a chairman was elected and an Affinity Group Petition was signed which has now been forwarded to the IEEE. Hopefully, the encouraging enthusiasm that all participants have been showing will infect other members and make possible more such fruitful events.

P. Knott
knott@fgan.de



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region8student news

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

EDITORIAL

Hi folks,

I've just returned from the Region 8 meeting in Seville and the Spanish Student Branch Congress in Malaga, and once again, the IEEE spirit caught on to me. Friendly people anywhere - but better read Mischa's report on the R8 meeting and Pablo's one from the Spanish SBC. I'd just like to point out here that every Branch should think about going to their Section for support to hold their own national branch congress, as it is extremely useful for learning about each other's successes and problems. Remember, the Sections get money based on the number of student members and that money deserves to be spent for students as well. Additionally, there's always help available from the Region 8. Just give it a try, it's easier then you might think.

Now for a short advertisement ;-) : in my school, the University of Kiel, Germany, we just recently established a new Student Branch. I'd like to thank everybody who has helped in making this possible, most notably of course our Counselor Prof. Klinkenbusch and the new board (Stefan Schenke, Markus Nordhausen, and Michael Albrecht). See Markus' report for more details.

Welcome to the IEEE family!

Jens

New Region 8 Student Representative

Since I was appointed only a couple of months ago, many of you still do not know me. That is the reason why I am using the Region 8 News to introduce myself. There

are quite many things that I have been through during the last months and maybe the most important so far is the R8 Meeting held in Seville on 3-4 March. Attending that meeting gave me the opportunity to directly see how many efforts are made within IEEE

and how many people coming from industrial realities as well as from the academic world are willing to volunteer on the Institute's activities. Why are they doing this? Because IEEE consists of them just as it consists of you and this means that you can bring up the ideas and proposals that you find worth working on and the IEEE entities will be happy to be on your side. As the RSR my goal is being a link between them and the students' world and this is exactly what I want to be. I would like to help you all with your activities and even if you do not need any help just let me know what you are working on: your experience will surely be useful to many other Student Branches in our Region.

Just before me the Student Representative was Jorge Luis Sanchez Ponz who did a great job in promoting and supporting student activities and I would like to go on working the way he did, so I will always be available for all comments and questions coming from you.

Now it is time to think of a big event within our Region: the Student Branch Congress 2002. The organizational period is

about to begin and the Student Activities Committee is looking for SBs that want to hold the congress in their university. We are going to send you more information by e-mail using the SBs' mailing list, so... begin to think about it!

Giorgia German
R8 Student Representative
g.german@ieee.org

IEEE Student Exchange Program (SEP)

now on the WEB!!!

In today's global "Open Market" economy, it is almost mandatory for the professional career of a young engineer to spend some time in a foreign country. This could be done prior to – or, after graduation – by additional studies at a foreign University; or, through an internship; or, practical work at international companies.

Our IEEE students are well aware of this important fact, and brought the subject of a possible IEEE – SEP up during several events in Region 8 and 9. They felt that IEEE – with its worldwide connections to universities and industry – would be an excellent information Source for the international exchange of students and young engineers. Although IEEE cannot make special arrangements for individuals, it can provide the necessary contact information for the specific needs of our young people.

Based on these requests from our students, T. Hissey, IEEE Director Emeritus, and I established an international task force of IEEE Volunteers from all IEEE regions to collect worldwide contact information for the project – from existing university programs; from universities offering summer courses and other studies as well as practical work for foreign students.

We also collected information on industrial companies interested in providing internships and practical work for foreign students and engineers.

I am pleased to announce that the basic program has been successfully completed – with the results of our activity now published on the Web under <http://www.ieee.org/membership/students/sep/index.html>

The information on this Website consists

of three listings :

- **List 1** – provides information on universities offering international student exchange programs – like the ERASMUS program in the EU, or the GLOBAL ENGINEERING EDUCATION EXCHANGE in the USA – among many others.
The list contains URL's and other contact data.
- **List 2** – provides two sections , identifying
A – worldwide list of companies interested in providing internships and practical work
B – list of URL's offering international job opportunities.
- **List 3** - provides a URL and contact address summary of the International Affair offices from universities offering summer courses and studies for foreign students.
An asterisk (*) by the university name in this list indicates where the IEEE has student branches.

These lists are dynamic – and thus, never completely "up-to-date". Therefore, they will be updated from time to time based on our latest information we receive. We expect our readers to *not only use* the information for their needs, but also *to give feedback* on possible additional contacts not covered, as well as information which needs to be changed, or corrected.

Dear Reader, the viability of the published lists depend very much on your feedback. Any comments, additions or corrections are welcome to stud-exch@ieee.org. Thank you, in advance, for your assistance.

Please note that the information in the three SEP lists is being offered to assist IEEE students and young engineers in their professional career planning.

The IEEE can neither guarantee availability nor acceptance of an individual to a particular program. Unfortunately the IEEE is not able to provide funding for any individuals participating in these programs.

Rolf Remshardt

1999-2000 IEEE Region 8 Director

New Student Branch In Kiel, Germany

On February 12th with international help from Slovenia and the Netherlands, Jens Hannemann, Region 8 Student News Editor, could convince enough students of the Faculty of Engineering of the Christian-Albrechts-University of Kiel, Germany of the advantage of an own student branch to exceed the required number of 20 student members for the establishment.

The future counselor will be Professor Dr. L. Klinkenbusch, who had the idea to establish a Student Branch in Kiel. A not immaterial share had the presentation of the members of the Student Branch Maribor from Slovenia, who made a travel of 25 hours by train through half of Europe to stay for a few days in Kiel. Their presentation of the symposium in Maribor last year showed the possibilities of an active Student Branch. Not to mention the member of the Student Branch Eindhoven, Netherlands, who came on motorbike through very bad Northern German weather. The presence of the international guests alone made a visibly good impression and was possibly enough publicity.

It was the best proof for the internationality of the IEEE.

On this occasion once more a thank you to Maribor and Eindhoven for coming and last but not least for the presents. On the following party of the Faculty, the first international contacts could be made.

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United Arab Emirates

Two students at the United Arab Emirates have taken the initiative to establish a website to assist practising engineers and students. The website offers exam and course notes in electrical and electronic engineering, a dictionary and photos.

Maha and Aisha AL-Noaimi deserve to be congratulated on this pioneering effort.

continued on page 16

Visit us at <http://communities.msn.com/TheCleverElectricalEngineer>

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3rd Spanish SB Congress

Between the 7th and the 9th of March, the Málaga Student Branch organized the Third Student Branch Congress at the ETSI de Telecomunicación-Universidad de Málaga. Representatives from different Spanish Student Branches (Madrid-UPM, Barcelona, Valencia, Tarragona, Madrid-Carlos III) came to Málaga to take part in the congress. The interim chair of the future Madrid-Complutense Student Branch also attended the Congress and on the last day the Spanish Section

Chair, Magdalena Salazar Palma; the former Region 8 SAC, Javier Macías Guarasa; the Region 8 Student News Editor, Jens Hannemann and his wife, Regina Hannemann, also took part in the Congress.

During those days, we had the chance of talking about how to improve communication and cooperation among Spanish Student Branches and future common activities we all could perform. Besides this "tough" side of the Congress, we could also visit the Technology Park of Málaga, see the R&D activities performed at our school and enjoy the leisure activities our city can offer us.

In my opinion, Student Branches from every IEEE Section should organize their own National Student Branch Congress as it is a very good way to make people from different SB's meet and therefore IEEE's leitmotiv ("Networking the World") can be put into action.

Finally, I would like to thank everyone who made this Congress possible: Our School Dean, Antonio Puerta Notario; our Counselor, Francisco Sandoval Hernández; the Chair at the Ingeniería de Comunicaciones Department, Carlos Camacho Pecalosa; Professor Fabián Arrebola Pérez, the Spanish Section ExCom, everyone at the R8 Student Activities Committee, people at the Technology Park of Málaga and of course all those who took part in the Congress.

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A Slightly Different View Of A Region 8 Meeting

I just came back from IEEEATVMR. Abbreviated for Innocuous Engineers Elated by Exiguities and Assiduously Throwing Voluptuous and Mellifluous Revelries. What? You feel suspicious with the abbreviation as well as with its explana-

tion? Welcome to IEEE. To my personal believe, SEEE would have been a more appropriate abbreviation replacing the Institute for State of Electrical and Electronics Engineers. And I consider myself lucky enough having caught a scent of something which I thought was relegated to history books already: The creation of a little bit of mutual help and equality within the rough environment of industry. You don't believe me? So read my brief story.

I was asked to overthrow the historically rooted hegemony of IEE on the lovely Island of United Queendom, sorry, Kingdom. I was supposed to restructure, persuade and breathe life into a bunch of students that, beside their fate of living in UK, have solely an 8 digit IEEE student membership number in common. However, as the saying says: "The impossible we do at once but miracles take a little longer." To learn the impossible I was sent to the IEEE Region 8 meeting in Seville. To be sure I won't cause too much harm, my mission was not just titled "observer" but "passive observer". Having had a sightseeing tour with my Taxi driver I eventually ended up in the student activities meeting. And this is where I met IEEE legends like Christian Borgert, Levent Onural, Cecilia Jankowski (cruelly shortened to CJ. However, the resemblance to DJ slightly indicates that she mainly puts the music), Ted Hissey and many more. It would take me pages and pages to summarize the personalities I came across within those four days. Beside these extraordinary people, I was overwhelmed by the spirit and the aura they radiated. It was the passion that caught me. Within the harsh world of industry there still do exist non-paid, highly motivated humans fighting for big and little ameliorations. Although I understand that it is difficult to take me seriously, I strongly recommend anybody reading these lines to grasp any computer nearby and hammer in the magic words: www.ieee.org/r8/ and actually read the web page. You should seriously consider not just to join, but also to shape the IEEE.

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Ed. Note: Several contributions for the Student News have been rolled over to the August 2001 issue due to lack of space.

Deadlines and Upcoming Events

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| May 3-4 | BTIE2000 at the Middle-East Technical University (METU), Turkey (See also the article in this issue) |
| July 5-7 | Oral finals of the Region 8 Student Paper Contest will be held in Bratislava, Slovakia, as part of EUROCON 2001. |
| August 1 | Fall Promotional Mailing sent to all Branch Counselors. So, after the usual mail delay (4-6 weeks) check with your counselor whether that stuff has arrived. |
| August 15 | Rebate Checks will be sent if the Annual Report of Activities has been received by headquarters in time (deadline May 1). |

If you want YOUR local student branch activity listed here, just drop us an email.