



Kotelnikov Awarded Alexander Graham Bell Medal

At the annual meeting of the Russian Popov Society, held in Moscow, Russia on 17 May 2000, IEEE President Bruce Eisenstein presented the prestigious IEEE Alexander Graham Bell Medal to Vladimir Kotelnikov. During the meeting a number of the members of the IEEE Russia Section were also awarded the IEEE Third Millennium Medal in recognition of "outstanding achievements and contributions."

During his address President Eisenstein said:

"The IEEE Alexander Graham Bell Medal is one of the 13 gold medals normally presented during the annual honors ceremony in June of each year. It is presented for exceptional contribu-

tions to the advancement of communication sciences and engineering.

This year the award is being presented to Vladimir Alexandrovich Kotelnikov, 'for fundamental contributions to signal theory.'

As a leader of several institutions, including the Moscow Power Engineering Institute, the Research Institute of the Ministry of Communications, and the Institute of Radio-engineering and Electronics of the Russian Academy of Sciences — Dr. Kotelnikov created innovative communications equipment, jet technology, and devices for the control of rocket trajectories.

He also improved radiotelegraphic lines, perfected code systems, and played a leading role in radar planetol-

ogy - designing radar equipment that led to close observation of planets.

Professor Kotelnikov is one of the great heroes of modern communication theory, and is internationally recognized as such in the West. But even more so in his home country - where he has been considered the dean of telecommunications research and development for over 50 years. There is even an asteroid named for him in the international catalog.

Over the years the West had its Shannon; and the East had its Kotelnikov.

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Students Matter!

Student Paper Competition

The Student Paper Contest has been a great success yet again.

First, I would like to thank all the participants for their interest, efforts and time. I am sure that it was a good experience for your future lives as engineers.

I would like to remind you that all the information related to the contest (finals and winner's papers) is available in the web page of IEEE Region 8 SAC (www.ieee.org/r8_sac/) as basis for the next participants. We are just waiting for our up and coming engineers to participate in the next SPC.

Finally, my congratulations to the winners:

1. Ales Bardorfer, Ljubljana, Slovenia
2. Allert van Zelst, Eindhoven, Netherlands

3. Christian Günselmann, Bochum, Germany

*Jorge Luis Sanchez Ponz
IEEE R8 Student Representative
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Student Branch Congress

The second Student Branch Congress (SBC2000) was held on 15-19 May in Eindhoven, the Netherlands. There were 156 attendees from 71 IEEE Student Branches in 33 countries all over the world attended the congress. If I could summarize the whole event in one sentence, I could only say, "It was an outstanding success."

You will be hearing and reading a lot about SBC2000 in future issues of the R8 News. If you couldn't make it this year,

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Bell Medal *continued*

Dr. Kotelnikov had two great communication theory triumphs early in his long career. As other great scientists worked on similar problems in the West, he independently developed a sampling theorem that is known in the US as the Nyquist theorem. He also developed the fundamental theory of detection of signals in noise.

His work laid a theoretical foundation for both radar and communications applications and resulted in specific detector structures that were built and very widely used. Such structures closely related to those he described

may be found in millions of wired and wireless modems around the world.

Still active technically in his 91 years, Kotelnikov has been a leader in radar astronomy, both earthbound and from spacecraft.

We have before us a titan of a scientist and engineer who has contributed hugely to our understanding of the process of communication and associated it within the fields of radar. Who better deserves this year's Alexander Graham Bell Medal?!"

A short article on Vladimir Kotelnikov on the occasion of his 90 th birthday

appeared on page 6 of the Region 8 News for August 1998. A photograph appears on page 6 of the February 1999 issue of the Region 8 News.

The recipients of the IEEE's Third Millennium Medals, which were awarded at the same function, were:

Yuri Belov
Michael Davidovich
Yuri Gulyaev
Boris Kapilevich
Vladimir Kotelnikov
Henrich Lantsberg
Dimitry Sazonov ♦

Student Matter! *continued*

plan for the next one since this a unique experience for all of you.

There are a lot of people to thank for the organization of SBC2000. The Eindhoven Student Branch deserves a special thank you for their very professional organization. Several speakers both from R8 and outside R8 gave talks on key issues for students and exchanged ideas during discussion sessions and social events. Without the financial support of R8, IEEE Foundation, several local companies and the University of Eindhoven, it will not be possible to organize SBC2000. A special word of thanks should also go to the attendees for showing a great commitment to make this congress a real success.

Before concluding my report, I would like to quote a couple of sentences said by the attendees. They reflect the spirit of SBC2000:

Dan Benigni, Past IEEE Regional Activities Vice President, "After Sections Congress, it was the most rewarding and interesting and fun IEEE meeting I have ever had the honor to attend."

Ted Hissey, IEEE Foundation, "The total enthusiasm, spirited exchange of ideas, and overall "networking" will be carried back to the students at the many Student Branches represented - and can only assist the image and spirit of IEEE of the future."

Interim Chair of the Student Branch at Sarajevo, "The most wonderful thing I had and still have here is meeting a lot of friends. That could give us an opportunity not only to collect experiences from others,

but also to get a chance to show ideas and knowledge of Students from the Faculty I'm coming from."

Student Branches from Lebanon, "The congress started on Monday and we were truly delighted to meet all those different faces from the extreme corners of the globe all with one common ground, that of the Institute and promoting it's student branches in universities all over. The talks were beneficial and enlightening, where we listened to different IEEE lecturers giving us crucial advice on how to run a better branch and on what benefits the IEEE provides for it's members."

University of Ottawa, Canada, "The congress itself was a wonderful experience. Meeting individuals from all walks of life to discuss matters concerning students and

the IEEE (Institute of Electrical and Electronics Engineers, an international organization consisting of professionals and students alike) was a great networking experience and I learned much from my new friends."

Karlsruhe University, Germany, "SBC 2000 has promoted tight interaction and understanding among active members of an international professional organization. How could I conclude better than by merging an important IEEE slogan with the motto of this congress: SBC 2000 has successfully contributed to IEEE's 'networking the world' by 'bringing branches together.'" ♦

Gozde Bozdagi,
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IEEE Elections – Opportunity for Region 8

We are again nearing that time of year when the IEEE holds elections to determine the leadership for the next year.

These elections have important implications for all members of IEEE. In Regions 8, 9 and 10 we often ask ourselves why we are not better represented in the elected positions in IEEE – after all we have a significant percentage of members. In fact, nearly one third of members reside outside North America. So what is the problem? It

is most certainly not that candidates from Region 8 are any less competent than those from elsewhere. The sad truth of the matter is that we do not take these elections seriously, and therefore we do not take the opportunity to vote, as we should.

When you receive your ballot papers you will find that our esteemed colleague and very good friend, Roger Pollard, is running as a candidate for the position of Vice-Chair of the Technical Activities Board for 2001. Roger holds the Agilent

Technologies Chair in High Frequency Measurements at the University of Leeds in the UK. He is an IEEE Fellow, and has served in numerous volunteer positions in various IEEE entities. From 1996-1999 he was the Chair for the United Kingdom and Ireland Section. Take the time to read

his candidate statement when you receive your ballots.

It is up to each and every one of us to make the effort to vote if we are indeed serious about members from Region 8 deservedly holding high office in the IEEE. Roger Pollard is a worthy candi-

date, and deserving of all the support we can give him.

Exercise your right to vote in the upcoming IEEE elections!! ♦

Duncan Baker

Editor in Chief, Region 8 News

Meet Our New Secretary

After many years of dedicated service our friend and colleague, Basil Osborne has decided to retire from the position of Region 8 Secretary. While we will miss Basil, Region 8 is indeed fortunate that his place has been filled by Charles Turner, a person no less capable, and just as dedicated to Region 8.

Charles' IEEE experience began as a Student Counselor in the UKRI Section in 1974. He progressed to become Secretary and Vice Chair, before taking over as Chair of UKRI in 1986-88. He was elected as Region 8 Director in 1993-94 and as IEEE Secretary in 1995, serving on the Board of Directors and the IEEE Executive Commit-

tee. He was Chair of the Audit Committee and the Transnational Committee.

Recently he has been active in projects for the low-income countries in Region 8, including the Voluntary Contributions Fund and the IEEE Library Project for Eastern Europe. He is very interested in Educational Activities, including accreditation and continuing education

using the Internet. At present he sits on the IEEE Member Conduct Committee which is



Region 8's New Secretary Charles Turner (left) receives his IEEE Third Millennium Medal from President Bruce Eisenstein (right) while the Region 8 Director, Rolf Remshard, looks on.

concerned with the ethical behaviour of IEEE members.

In his professional life, he was Siemens Professor of Electrical Engineering at King's College London from 1971 and was Head of the Department until 1990.

His research interests have been mostly in the microwave area (active devices, passive circuits,

antennas and superconducting circuits) and in acoustics and ultrasonics. ♦

REP List Updates

All Section Chairs have been sent the latest version of the list of educational programs whose graduates qualify to be granted IEEE 'Member' grade automatically upon graduation. If the program of an applicant for membership does not appear on the list the educational qualifications must be reviewed by the IEEE Admissions and Advancement (A & A) Committee. Also in those cases a minimum of three

years of 'professional experience' would be required for a member to be elected to Member grade.

It is therefore very important for graduating students and other potential members in your Section that the REP list is correct in every respect for all universities or colleges running courses in electronics, computer engineering and related subjects.

If you know of examples where errors (e.g. incorrect translation into English of

Institution name or address, program title, etc.,) in the IEEE database on educational programs have caused problems with membership applications, please let your Section Chair know or send me an e-mail at: c.turner@ieee.org ♦

Charles Turner

*Secretary IEEE Region 8, and
REP List Co-ordinator*

Fellows News 8

Region 8 Fellows For 2000

On behalf of all members of Region 8, the R8 News takes this opportunity to congratulate the following friends and colleagues who have been elected as IEEE Fellows for 2000.

Jaakko Tapio Astola, *Tampere University of Technology, Tampere, Finland*

Werner Bachtold, *Swiss Federal Institute of Tehcnology, Zurich, Switzerland*

Tadej Bajd, *University of Ljubljana, Ljubljana, Slovenia*

Herve Bourlard, *IDIAP, Martigny, Switzerland*

Alfio Consoli, *University of Cantania, Cantania, Italy*

Maria Teresa Correla de Barros, *Technical University of Lisbon, Lisbon, Portugal*

Luigi Dadda, *Politecnico di Milano, Milano, Italy*

Michel J. Declercq, *Swiss Federal Institute of Technology, Lausanne, Switzerland*

Emmanuel Benoit M. Desurvire, *Alcatel-CIT, Marcoussis, France*

Helmut Ermert, *Ruhr University, Bochum, Germany*

Alfonso Farina, *ALENIA Systems, Rome, Italy*

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Fellows *continued*

- Alister I. Ferguson**, *University of Strathclyde, Glasgow, Scotland*
- Tor Arne Fjeldly**, *Norwegian University of Science and Technology, Kjeller, Norway*
- Norbert Fliege**, *Mannheim University, Mannheim, Germany*
- Manfred Glesner**, *Darmstadt University of Technology, Darmstadt, Germany*
- Hugh Duncan Griffiths**, *University College, London, London, England*
- Guido Guardabassi**, *Politecnico di Milano, Milano, Italy*
- Albert Einstein Heylen**, *University of Leeds, Leeds, West Yorkshire, United Kingdom*
- Tom Hoholdt**, *Technical University of Denmark, Lyngby, Denmark*
- Lars G. Josefsson**, *Ericsson Microwave Systems AB, Moelndal, Sweden*
- Johann Friedrich Luy**, *Daimler Chrysler Research Center, Ulm, Germany*
- Johan Haig Marsh**, *University of Glasgow, Glasgow, Scotland*
- Reuven Meidan**, *Motorola, Tel-Aviv, Israel*
- Gian Carlo Montanari**, *University of Bologna, Bologna, Italy*
- Istvan Nagy**, *Technical University of Budapest, Budapest, Hungary*
- Lutz Niemeyer**, *ABB Corporate Research, Ltd., Baden-Dattwil, Switzerland*
- Hendrik Nijmeijer**, *University of Twente, Enschede, Netherlands*
- Erkki Oja**, *Helsinki University of Technology, Espoo, Finland*
- Giuseppe Pelosi**, *University of Florence, Florence, Italy*
- Gerhard Pfaff**, *University of Erlangen-Nuernberg, Erlangen, Germany*
- Phillip A. Regalia**, *Institut National des Telecommunications, Evry, France*
- Bixio Emilio Rimoldi**, *EPFL, Lausanne, Switzerland*
- Joannes M.J. Sevenhans**, *Alcatel, Antwerpen, Belgium*
- Bruno Siciliano**, *Universita di Napoli Federico II, Itlay, Napoli, Italy*
- Alois Josef Sieber**, *Joint Research Centre of The European Commission, ISPRA, Italy*
- Roberto Tempo**, *National Research Council (CNR) of Italy Torino, Italy*
- Jan Luiken ter Hasenborg**, *Technical University Hamburg, Hamburg, Germany*
- Federico Tosco**, *CSELT, Torino, Italy*
- Heinz Dietrich Unbehauen**, *Ruhr University, Bochum, Germany*
- Tore Marvin Underland**, *Norwegian University of Science and Technology, Trondheim, Norway*
- Adrianus J. van de Goor**, *Delft University of Technology, Delft, Netherlands*
- Aad van den Bos**, *Delft University of Technology, Delft, Netherlands*
- Henk van Tilborg**, *Eindhoven University of Technology, Eindhoven, Netherlands*
- Antonio Vicino**, *University of Siena, Siena, Italy*
- Ofer Zeitouni**, *Technion, Haifa, Israel*

Call For IEEE Fellow Nominations

Do you know someone who deserves to become a Fellow?

If you know someone who has made one or more outstanding contributions to fields of interest to the IEEE and whose achievement has not been recognized yet, it would be just to correct this situation. Assuming that the person in question is

already a Senior Member, and that he or she has been a member for at least five years, you could nominate that person as an IEEE Fellow.

You will need five IEEE Fellows who will endorse your nomination. This will take time but it is certainly worthwhile if that person really deserves this recognition. Provision is made in the IEEE regulations to have the nominations endorsed by Senior Members for those Sections who do not have many Fellows.

A nomination form can be downloaded via the IEEE Awards / Fellow Activities home page at <http://www.ieee.org/about/awards/>.

If you think you can do it, you finally have to submit a hard copy nomination form.

Such a hard copy form can be requested by sending an e-mail to fellow-kit@ieee.org, or by downloading a form from the Fellows website above. The instructions MUST be strictly adhered to. The deadline for submission of the Fellow nomination form is March 2001, and will not be extended. No e-mail or fax submissions are allowed – the original signatures are required on the nomination forms. An article dealing with Fellows nominations was published in the August 1999 issue of the Region 8 News on page 11. You may still view a copy of this issue on the Region 8 Homepage <http://www.ieee.org/regional/r8/>, or go into the IEEE's own website to find the Region's Homepage. ♦

Hans Peek
Awards and Recognitions
h.peek@ieee.org

Norway Hosts R8 Committee

The Norway Section was the host of the Region 8 Committee during its recent meeting, which was held in Oslo at the Hotel Bristol from 20-21 May 2000. All local arrangements for the meeting were made by Rolf Henriksen, Chair of the Norway Section, and his team.

Functions and activities during the meeting were sponsored by:

- ♦ **Telenor AS** (the largest telephone and communications company in Norway)
- ♦ **Nera ASA** (a manufacturer of electronics and communications equipment)

- ♦ **Statkraft** (a major electrical power company)
- ♦ **ABB Teknolog AS**, and
- ♦ **Norsk Romsenter** (Norwegian Space Center)

It has become customary at these meetings, either during a social function, or as

part of the agenda, to have one of the sponsors tell the delegates of some of the on-going technical activities in the host country. Oddvar Hesjedal, a Senior Vice President for Telenor SA, sketched the exciting future technological trends in the

field of telecommunications. By all accounts the achievements of the last 100 years are soon to be eclipsed in this rapidly developing field.

On behalf of the Region 8 Committee the R8 News thanks all those involved

with sponsorships and arrangements for their contributions to the success of the meeting. ♦

*Duncan Baker
Editor, Region 8 News*

R8 Millennium Medals

At the May 2000 Meeting of the Region 8 Committee IEEE President Bruce

Eisenstein awarded Third Millennium Medals to the following:

Jacob Baal-Schem - nominated by Israel Section

Duncan Baker - nominated by R8

Christian Borgert - nominated by R8

Tony Davies - nominated by R8

Charles Turner - nominated by R8

It was also announced that the following members had already received their Millennium Medals:

Past and present members of the Region 8 Committee:

Jaafar Al-Ibrahim - Saudi Arabia Section East



IEEE President Bruce Eisenstein (second from left) with Third Millennium Medal awardees Jacob Baal-Schem (left), Tony Davies (third from left), Baldomir Zajc and Duncan Baker (right).

Gozde Bozdagi - Turkey Section

Peer Martin Larsen - Denmark Section

Levent Onural - Turkey Section

Basil Osborne - Romania Section

Maurice Papo - RAB

Hans Peek - Benelux Section

Kurt Richter - Austria Section

Zbynek Skvor - Czechoslovakia Section

William Watte - Benelux Section

Baldomir Zajc - Slovenia Section

Region 8 Section Chairs:

Samir Al-Baiyat - Saudi Arabia Section East

Cor Claeys - Benelux Section

Hassan Ghafoorifard - Iran Section

Iiro Hartimo - Finland Section

Jan Hlavicka - Czechoslovakia Section

Mansour Jaragh - Kuwait Section

Henrich Lantsberg - Russia Section

Jean-Gabriel Remy - France Section

Ady Seidman - Israel Section

Vladimir Tarasenko - Ukraine Section

Riyazul Syed Zaidi - UAE Section ♦

Chance for GOLD



Sammy Martins (Benelux Student Chapter - left) receives the Outstanding Gold Program Award from IEEE President Bruce Eisenstein.

Attention GOLD members!!! You are eligible for a \$500 grant to go to the Professional Development Conference in Arizona this summer! Check out <http://www.ieeeusa.org/prodevcon/> or contact Linda Hall at e-mail l.hall@ieee.org. ♦

*William Watte
GOLD Coordinator
w.watte@ieee.org*

Section and Chapter News

CROATIA

The Industrial Electronics/Industry Applications/Power Electronics Society joint Chapter of the Croatia Section has been formed. The effective date of this Chapter formation is 3 April 2000. The interim Chair is Zvonko J. Bencic (zvonko.bencic@fer.hr).

The Antennas and Propagation/Microwave Theory and Techniques joint Chapter of the Croatia Section has been formed. The effective date of this Chapter formation is 8 June 2000. The interim Chair is Juraj Bartolic (juraj.bartolic@fer.hr).

ITALY

Calling all North Italy Section members.

The North Italy Section has not been represented at several important IEEE meetings in the past few years because of the inability of Prof

Zingales, the current Chair, to attend. He wishes to find someone to take over from him. If you know of a suitable candidate for this position, please contact Prof Roberto Turri at: turri@light.dei.unipd.it

*Charles Turner
Secretary IEEE Region 8
c.turner@ieee.org*

POLAND

The Robotics and Automation Society Chapter of the Poland Section has been formed. The effective date of this Chapter formation is 3 April 2000. The interim Chair is Krzysztof R. Kozlowski (kk@ar-kari.put.poznan.pl).

PORTUGAL

The Engineering Management Society Chapter of the Portugal Section has

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Section and Chapter News *continued*

been formed. The effective date of this Chapter formation is 2 May 2000. The interim Chair is Dr. Pedro M. Mendes (p.mendes@ieee.org).

SPAIN

The Power Electronics Society Chapter of the Spain Section has been formed. The effective date of this Chapter formation is 2 June 2000. The interim Chair is Juan Peracaula (peracaula@eel.upc.es).

SWEDEN

The Engineering Management Society Chapter of the Sweden Section has been formed. The effective date of this Chapter formation is 1 May 2000. The interim Chair is Jan Osterlund (m.j.osterlund-competence.mgmt@telia.com).

SWITZERLAND

The Components, Hybrids, and Manufacturing Technology Society Chapter of the Switzerland Section has been formed. The effective date of this Chapter formation is 3 April 2000. The interim Chair is Gerhard Troester (troester@ife.ee.ethz.ch).

UK&RI

Women in Engineering:

Our Section has no Women in Engineering initiative, and I would welcome anyone who would like to start an Affinity Group - which is a local unit of UKRI section, or could be a UKRI standing committee. Further information at the WIE website <http://www.ieee.org/organizations/committee/women>. Also see <http://www.ieee.org/organizations/rab/scs/afform.html> or write women@ieee.org. You will need six names of IEEE members who wish to get involved.

Forthcoming Initiatives:

An IEEE Electrical Engineering Milestone will be given in early July at County Kerry, Ireland. This will commemorate the first permanent electrical communications link between the Old World and the New. The Cable ship "Great Eastern" sailed from Valentia, Co. Kerry on 13 July 1886, and landed the cable at Newfoundland, North America. Prof. James Christie will represent our Section in presenting the Plaque.

Co-operation with Institute of Electrical Engineers

Many if not most UK&RI IEEE members are also members of the IEE. Whilst there has been formal co-operation between our organisations, I can report that effective on 1st January, 2000 a three year co-operative agreement was endorsed by Dr John Taylor, 1999 President IEE, and Dr Ken Laker, 1999 President of IEEE.

"To encourage the exchange and dissemination of technical information, and to promote understanding and co-operation between the members of the IEE and the IEEE it is hereby agreed to the following reciprocal arrangements."

A full copy will be available on our UK&RI website, but in part -

- ♦ Visiting Members: Will be granted equivalent facilities to those granted local members. In effect these will include member rates for attending lectures, conferences, use of library, members reading room... The Secretary/ General Manager of the parent institution will, on request, provide a letter of introduction.
- ♦ Joint activities: Members resident in the territory of the other organisation for longer than one year will be encouraged to join each other's organisation.
- ♦ Publications Exchange: Members of one organisation may receive certain publications of the other organisation at reduced rates of subscription. If a publication is available to a local member at a reduced price, it will be offered at 20% reduction from normal non-member price.
- ♦ Standards Information: Agree to exchange information and encourage mutual participation in Standards development.
- ♦ Co-ordination of Technical Meetings: Invitations to co-sponsor conferences or other events will be considered on a case-by-case basis. To the maximum extent practicable, consultation shall take place when it is proposed to conduct conferences or similar events in the UK by IEEE, and in the USA by IEE.

The agreement is to run for three years and there is provision for review, amendment, and termination.

So now there is a formal document to encourage us to develop our profession in a shared manner.

Roland Saam
r.saam@ieee.org

UKRAINE

The Vinnytsia Joint Chapter presentation of IEEE Ukraine Section took place at the Vinnytsia State Technical University in Vinnytsia, Ukraine, on 14 March 2000.

Professor Pavlo A Molchanov, Chapter Chairman and volunteers organized an IEEE presentation to Vinnytsia Chapter members, students and faculty members from the Vinnytsia State Technical University. More than 100 participants attend the conference.

Distinguished lecturers have been invited to Ukraine and two of them did attend the Presentation.

The Presentation started with a speech by Prof. Pavlo A Molchanov (Vinnytsia Chapter Chair) about Chapter activities, organized seminar and local problems. The MTT-S distinguish lecturer from Hungary, Budapest Dr.Tibor Berceli (Microwave Communications Department) opened the presentation, and the distinguish lecturer of the Computer Society Dr.Stanislav Klimenko continued with an animated lecture "Visualization of Complex Physical Phenomena and Mathematical Objects in Virtual

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MTT-S Distinguished lecturer Tibor Berceli with students after his lecturer. (See Ukraine item on page 6.)

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>

CONFERENCE REPORTS

COMSOC-Russian Popov Society Internet Workshop

The First IEEE Communications Society/Russian Popov Society Workshop on Internet Technologies and Services was held during October 25-28, 1999 in Moscow, Russia.

This joint technological activity event of the IEEE Communications Society, IEEE Region 8, IEEE Russia Section and Russian Popov Society for Radio-engineering, Electronics & Communications (the largest Technical Society in Eastern Europe) is an important step in the beneficial activity between the two professional societies. The topics of the workshop were of great importance and interest for Russian communication scientists and engineers. The Technical Program Committee organized a high level set of tutorials, keynote addresses and presentations by lecturers from all over the world.

Among the participants of the workshop there were representatives from nine countries (Austria, Canada, Finland, Germany, Hungary, Israel, Sweden, USA and Russia). Russia was represented by participants from ten cities. They came from various universities and research institutes.

Prof. Yuri Gulyaev, President of the Russian Popov Society and Chair of the IEEE Russia Section, and Tom Plevyak, President of the Communications Society formally opened the Workshop by greeting the participants and thanking the organizers for their cooperation. Dr. Jacob Baal-Schem (Israel, and representing the IEEE Region 8), Prof. Steve Weinstein (USA, ComSoc, and an initiator of this workshop), Dr. Henrich Lantsberg (Member of the Russian Popov Society Executive Board and Vice-chair of the IEEE Russia Section), and Celia Desmond (ComSoc Director of Conferences in Canada), also welcomed the workshop participants. The workshop began with two tutorials on "Internet Routing and QoS" by Prof. Roch Guerin of the University of Pennsylvania, U.S.A.

The main keynote addresses were presented by Christian Huitema (Telcordia, U.S) and Andrei Zotov (Russian Center for Internet Technologies, Russia). Christian Huitema spoke on "Challenges of the Next Generation Networks." Andrei Zotov described the Internet activity in the future in his address "Internet Business in Russia: Insider's Outlook." This gave all attendees a glimpse of the actual Internet activity in Russia.

Some other sessions of the workshop were devoted to:

- ♦ Security and Mobility in IP Networks with an overview paper on "Mobile IP and Security Issues" by Charlie Perkins (Nokia, USA),
- ♦ Search Engines,
- ♦ E-Commerce,
- ♦ Multimedia and Real-Time Support in IP Networks,
- ♦ Infrastructure and Services,
- ♦ Analysis and Basic Technologies, and
- ♦ Education Issues and Technology.

A special session was conducted to discuss the issues of the Internet Developments in Russia.

A social program of the workshop, which included a welcome party, banquet and ballet performances of the highest standard, provided a good occasion for contacts between the Russian participants and their colleagues from abroad.

All attendees agreed on the high standard of the presentations and suggested that this type of activity should be continued. The members of the Steering Committee decided to hold a Second Workshop in Moscow in 2001.

At the end of the workshop Tom Plevyak addressed the attendees and said:

"This important event (workshop) was well conducted, of good quality and will definitely lead to an IEEE ComSoc/Russian Popov Society Internet Conference in 2001 in Moscow."

During the Workshop a meeting of the IEEE ComSoc President with the representatives of IEEE ComSoc Russia Chapters from Moscow, Saint Petersburg and Novosibirsk was organized. On October 27 in Moscow, Russia Tom Plevyak and Yuri Gulyaev signed a renewal of the existing agreement on cooperation between the IEEE ComSoc

and the Russian Popov Society. During the signing ceremony it was noted that the agreement signaled an increase in confidence that cooperation between the two great professional societies is effective, beneficial, productive and in fact necessary.

*Dr. Henrich S. Lantsberg
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MIEL 2000

The 22nd International Conference on Microelectronics (MIEL 2000) was held from 14-17 May 2000 at the Faculty of Electronic Engineering, University of Nis, Yugoslavia. The conference was organized by IEEE Yugoslavia ED/SSC Chapter in cooperation with the Faculty of Electronic Engineering and Ei-Holding Co. – Nis, under the auspices of the Serbian Ministry of Science and Technology and Yugoslav Ministry of Science and Development, Yugoslav Ministry of International Cooperation, Yugoslav Academy of Engineering and City Assembly of Nis.

This year MIEL conference has reached the majestic age of a quarter century. This anniversary represents a timely opportunity to give insight into the evolution of this world known conference, while records and memories are still intact. MIEL was founded in 1974 in former Yugoslavia as an annual event. The conference became a real international event in 1984, when for the first time a significant number of foreign participants attended. Because of the disintegration of Yugoslavia, the conference was not held in 1992 and was re-established in 1993 as biennial event. From 1995 MIEL has been organized under technical co-sponsorship with the IEEE Electron Devices Society (EDS), while this year the conference for the first time received co-sponsorship support from the EDS.

This MIEL conference was originally scheduled for September 1999, but because of sad war events in Yugoslavia in the first half of 1999 it was rescheduled for May 2000. These events and their consequences had put the organizers into great difficulties, which had been overcome by the great

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Conferences *continued*

efforts and enthusiasm of the organizing staff and with the help and understanding from IEEE. We are particularly thankful to the IEEE Region 8 Conference Committee, chaired by Prof. Baldomir Zajc, which provided valuable support at the critical moment, and to the EDS for their understanding and continuous support.

As in previous years, topics covered by the technical program included all important aspects of microelectronic devices and circuits. Short courses on two main conference topics, Power Devices and ICs and Microsystems Technologies, were held on 14 May 2000. The total of 45 domestic and 47 foreign participants took part at the conference, representing 27 countries from all over the world. A total of 13 keynote invited papers and 93 regular papers (44 in oral and 49 poster sessions) were presented. The Conference Proceedings (two volumes, 766 pages) were published through IEEE Book Broker Program.

Three Best Paper Awards were presented. A. Vujanic (Technical University of Vienna) received an award for an oral paper "Silicon microstructure for precise measurements of mechanical moments." J. Nicolics (Technical University of Vienna) received an award for a poster paper "Investigation of the thermal performance of micro-

whisker structured silicon heatspreaders for power devices". P. Iqic (University of Wales, Swansea) received an award for a student paper "Investigation of the thermal stress field in a multilevel aluminium metalization in VLSI systems using finite element modelling approach." The international scientific journal *Microelectronics Reliability* also awarded the paper "Rise-time effects in ggnMOSFET under TPL stress" by G. Boselli, T. Mouthan and F. Kuper from the University of Twente.

In the best traditions of MIEL conferences, the social program of this year's conference was particularly rich, with conference banquet and gala-dinner as highlights. In general, besides the high quality of presentations, MIEL conferences are characterized by the friendly atmosphere and great hospitality of the organizers and people of Nis. This special charm adds to very positive impressions participants bring from MIEL and Nis, and is one of the reasons why one rarely attends MIEL just once: one who comes once will almost certainly come again. So, we are very much looking forward to welcoming old and new friends at MIEL 2002 in Nis.

*Prof. Dr. Ninoslav Stojadinovic
Chairman, MIEL Conference
nino@unitop.elfak.ni.ac.yu*

CALLS FOR PAPERS

IMTC 2001

**21 – 23 May 2001
Budapest Convention Centre,
Budapest, Hungary**

Rediscovering Measurement in the Age of Informatics

The conference will cover all aspects of theory and practice of metrology, measurement technologies, instrumentation, and related applications. The scope will include, but is not limited

Important dates:

- ♦ September 30, 2000 - Abstract submission deadline.
- ♦ December 20, 2000 - Author notification of acceptance or rejection.
- ♦ February 1, 2001 - Final manuscript due date. ♦

Robert Myers,

IMTC/2001 Conference Coordinator

799 North Beverly Glen,

Los Angeles, CA 90077, USA

Phone: (310) 446-8280

Fax: (310) 446-8390

E-mail: bob.myers@ieee.org

Schedule of Events

Mathematical Methods In Electromagnetic Theory

12 – 15 September 2000

Kharkov, Ukraine

Eighth International Conference

The conference has established itself as a true interface between Western and former Soviet Union scientists and engineers. A characteristic feature is a stronger emphasis on the analytical and mathematical aspects of research, together with physical analyses of the wave phenomena.

For more information contact the MMET2000 Secretariat at the following e-mail addresses

veliev@dut.kharkov.ua

mybox@public.kharkov.ua

natali@info.kharkov.ua

or visit the website at

http://www.kharkov.ukrtel.net/MMET2000/

ICSC 2000

26 – 29 September 2000

Moscow, Russia

Satellite Communications

Fourth International Conference and

Exhibition

Main Conference And Exhibition

Topics:

- ♦ Fixed satellite services
- ♦ Mobile satellite services
- ♦ Mini- and microsattellites
- ♦ Platforms, launchers and space transport systems
- ♦ Broadcasting satellite service: direct reception TV and sound broadcasting
- ♦ Satellite based systems with high elliptical and low Earth orbits, including small satellites
- ♦ Satellite navigation and place determination systems

- ♦ Satellite based systems with high elliptical and low Earth orbits. Ecological monitoring
- ♦ Satellite networks VSAT/USATs and business television
- ♦ Distress and safety satellite communications systems
- ♦ Electromagnetic compatibility of satellite communications systems
- ♦ Satellite Network Management
- ♦ Electronics for satellite systems
- ♦ New technology for on-board satellite equipment
- ♦ Personal communication systems (e-mail, video conferences, computer networks, etc.)
- ♦ Application areas, services and users of satellite communications systems
- ♦ Trends in applications of satellite communications in education and training

- ◆ Principles and results of satellite technologies for peaceful purposes conversion
- ◆ Perspectives in international, regional and national policies in satellite communications
- ◆ East-West cooperation - ways for satellite communications development and infrastructures

July 15, 2000 - Abstracts of papers due for review (500 words)

July 30, 2000 - Notification of acceptance

August 15, 2000 - Full version of camera-ready manuscript due (6000 words)

Dr. Henrich Lantsberg

Co-chair,

National Organizing Committee;

Vice-chair, IEEE Russia Section

Phone: 7(095) 203-4985.

Fax: 7(095) 203-8414

E-mail: h.lantsberg@ieee.org

or

Dr. Juri Gornostaev

Head, Computer Department

International Centre for Scientific and

Technical Information

Kuusinen Str. 21-B, ICSTI, 125252,

Moscow, Russia

Phone: 7(095) 198-7691

Fax: 7(095) 943-0089

E-mail: enir@icsti.su

IAS 2000

8 - 12 October 2000

Rome, Sheraton Rome Hotel, Italy

Industry Applications Society

For celebrating the beginning of the new millennium for this year only the IEEE-IAS the 35 th Annual Meeting has been specially moved from the USA to IEEE Region 8. During the previous 34 years the IEEE-IAS Annual Meeting was always held in the North America continent. The meeting will take place in the special form of "World Conference on the Industrial Applications of Electrical Energy - An Extended IEEE-IAS 35th Annual Meeting." Because of the special nature of the event it is being co-sponsored by a number of sister electrical & electronic engineering associations located worldwide. These include AEI (Italian Electrical Association), EPE (European Power Electronics Association), IEE Power Division (UK), IEEEJ-IAS (Japan), IEEE Power Electronics Society. This conference will also have a number of industrial

sponsors including Rockwell Automation, ST Microelectronics, Mitsubishi Electric and Siemens.

Fabio Crescimbin

IEEE-IAS 2000 Annual Meeting

Local Arrangements Chair

E-mail: crescimbin@ieee.org

Phone: +39-06-5517-3284

Fax: +39-06-55173252

NSS-MIC 2000

15 - 20 October 2000

LYON Convention Center, France

The Nuclear Science Symposium and Medical Imaging Conference (NSS-MIC) is an annual international event that brings together the scientific communities designing and utilizing radiation detector systems for fundamental physics research and advanced medical imaging.

Information on how to submit an abstract, a list of topics and details on the Conference are available from the Conference website: <http://NSS2000.in2p3.fr>

Conference e-mail address:
[ieee2000@hep.saclay.cea.fr](mailto:ieee2000@hep.saclay cea.fr)

Materials For

Microelectronics 2000

16 - 17 October 2000

Dublin Castle, Republic of Ireland

The Third International Conference intended to provide a forum for topics of current interest in the areas of growth, processing and materials device analysis of microelectronics that target devices and integrated circuit developments is taking place in Dublin Castle in October. This event will address the convergence of modern materials technology advances, electronic and optical device of IC development.

For further information please contact Pauline Farrelly on 0171 451 7391 or fax on 0171 839 2289 or e-mail on Pauline_Farrelly@materials.org.uk

DSPA 2000

22 - 24 November 2000

Moscow, Russia

Digital Signal processing and Applications

Third International Conference & Exhibition

The Main Topics of the Conference:

- ◆ Theory of signals, methods of coding, algorithms of transformations; digital filtration and spectral analysis;
- ◆ Digital processing and transmission of multidimensional signals;
- ◆ Digital processing and transmission of speech and sound signals ;
- ◆ Digital signal processing and transmission in communication systems, radar and hydroacoustics;
- ◆ Digital signal processing in control systems;
- ◆ Digital image processing;
- ◆ Digital processing of measurement information;
- ◆ Digital teleradiobroadcasting;
- ◆ Neural network signal processing;
- ◆ Digital signal processing for information security;
- ◆ Element base and digital signal processing systems;
- ◆ Design of digital signal processing systems;
- ◆ DSP standards;
- ◆ IP-telephony, videoconference communication, multimedia, Internet;
- ◆ DSP in education.

For additional information please contact:

Dr. Henrich S. Lantsberg

Vice-Chair, IEEE Russia Section;

Phone: (7-095) 203-4985

Fax: (7-095) 203-8414

E-mail: h.lantsberg@ieee.org,

h_lants@mail.clire.ru

or

Dr. Pyotr Zoudkov

Vice-President, Russian Popov Society

Phone: (7095) 021 7108

Fax: (+095) 921 1639

E-mail: psm@glasnet.ru

PSIP 2001

23 - 25 January 2001

Marseille, France

Physics In Signal And Image Processing

The conference is organized by SEE in collaboration with IEEE, EUREL, AEI, IEE, VDE, ASE, and SFO.

This workshop will explore diverse areas mixing physics and signal and image processing for a better matching of signal processing to the characteristics of the sensors and to the actual situation and practical needs.

Critical elements in the performances of any signal or image processing methods

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Schedule of Events *continued*

are the validity and the accuracy of the underlying scene and sensor modeling – backgrounds, contrasts, fluctuations, speckle, propagation, disturbances and jammers, sensor calibration, etc.

The accuracy of the physical description and its matching to the signal processing techniques becomes an essential challenge for sensor design, in the different fields of application – from medical to military, using radar, acoustic, optics and opto-electronics, and seismic sensors.

In this workshop special emphasis will be placed on interaction between physics and processing in three specific areas. The papers will, however, not necessarily be restricted to only these topics. These are:

- ✦ Image formation and analysis,
- ✦ Noise and disturbances modeling and synthesis, and
- ✦ Sensor signal fusion.

Points of Contact:

congres@see.asso.fr

PSIP '2001 Secretariat - SEE

48 rue de la Procession

75724 PARIS Cedex 15 (FRANCE).

Website: www.enspm.u-3mrs.fr/fresnel/PSIP2001/

François LE CHEVALIER

E-mail: francois.lechevalier@

detexis.thomson-csf.com

EPMCC 2001

20 – 22 February 2001
Vienna, Austria

4th European Personal Mobile Communications Conference together with the **5th ITG-Fachtagung “Mobile Kommunikation”** and **5th GIT-Fachtagung**

Mobile communications is presently one of the most dynamic sectors of the economy.

GSM, which has been driven by European engineers, scientists and industrialists, has replaced Coca-Cola as the brand with the widest distribution on earth.

Now the introduction of the next generation in mobile communications, the 3rd generation, is impending. The ITU has recently approved five members of the IMT-2000 family (International Mobile

Telecommunications 2000). The year 2001 will see first products on the markets in Japan and Europe. So it is a good point in time both to report and to learn about UMTS, cdma2000, and other standards.

Topics:

Radio Propagation and Antennas -

Transmission Technology – Terminal Equipment

Systems and Trials - Networks -

Applications and services

All details on: www.epmcc.com

Important dates:

15 September 2000: extended abstract due

10 November 2000: Notification of authors

10 January 2001: Camera-ready manuscript due

Contacts:

Technical information: techinf@epmcc.com

Organizational matters: orginf@epmcc.com

Karl Stanka

K.Stanka@ove.at

ELECTRALIS 2001

14 – 17 March 2001
Liège, Belgium

Campus, International Conference On Research-To-Business Partnerships: Final Call For Research Projects In Electricity Technologies

Organised by Electropôle Belgium, Electralis 2001-Campus is an IEEE-R8 sponsored international conference tailored for electricity professionals, i.e. researchers, institutions and industry leaders (all info on www.electralis.com). They will be presented with an exhibition of leading-edge research projects (posters, oral presentations, prototype demos, etc.), a trade fair area, two study days on technology transfer and intellectual property, an associated conference on ICT tools in technological training and a series of technical lectures, plus a unique “dating” device allowing any participant to book a meeting desk with any exhibitor, via interactive terminals or via the web site. Ten key lectures will be given by major specialists on where the technological opportunities are generated (technowatch), who

are the most relevant players (partnership) and how to manage those opportunities in the most productive way (best practice). Five core topics will be addressed during the conference: (a) robotics & automation, (b) microsystems, nanotechnologies & MEMS, (c) space research and technology transfer, (d) communication technologies and (e) power & Energy

Because of the highly positive reception of the event by both scientific and industrial leaders, the Campus Call for Research Project (details on www.electralis.com) submission limit is prolonged. Researchers are invited to notify the organizing team as soon as possible with their intention to submit one or more projects. Full submission files will be requested afterwards for evaluation by the ISC. Note that selected researchers will be offered free travel and accommodation plus eligibility for scientific awards amounting to 75,000 EURO. Proceedings will be digitally published and indexed.

Patrick Thonart,

Project Manager Eventis

41 avenue C. de Gerlache -

B-4000 Liège

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E-mail: patrick.thonart@eventis.com

<http://www.eventis.com>

Visit our website <http://www.electralis.com>

ICAP 2001

17 – 20 April 2001
UMIST, Manchester, UK

Eleventh International Conference On Antennas And Propagation

The IEE's ICAP series of conferences is now well established. The scope of the conference covers all aspects of antennas and propagation in the entire radio spectrum. 31 August – Receipt of 500 word synopsis

Early November 2000 – Notification of Acceptance

20 December 2000 – Receipt of full typescript

For more information contact the ICAP2001 Secretariat at: icap@iee.org.uk or visit the website <http://www.iee.org.uk/Conf> ✦



IEEE
Networking
the World™

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

Editorial

Hi folks,

Those of you who were in Eindhoven know that the second Student Branch Congress has been great and a huge success. The others will find lots of information about this event all over the entire Region 8 News. In fact, even without the SBC, we would have had difficulties in placing all the material that has been sent by branches in this issue. So please bear with us, if your article has not been published this time.

We do our best to include your contributions as soon and with as little shortening as possible.

To save space, I'll keep this one short. Have fun with the articles,

Jens.

P.S.: You want to be at the next SBC? Easy: Become involved in your branch! You don't have a branch? Even easier: establish one! "You don't get the most out of your IEEE membership until you become a volunteer." (Dan Benigni)

Jens Hannemann
Student News Editor
j.hannemann@ieee.org

R8 Students get fame all over the world

R8 student branch activities and level of success are well known all over IEEE, but this success shines even brighter when talking about awards and recognition programs.

I'm very proud to tell you about four extremely successful results of student from our region. First of all, I would like to congratulate the Madrid-ETSIT IEEE student branch (ieeesb@etsit.upm.es) for securing, second year in a row, one of the 2000 AT&T Labs Student Enterprise Award for their proposal entitled "Versatile, CD-ROM based, MPEG Audio Board".

Second, the 2000 IEEE Student Branch Web Site Contest took also place last May and our regional winner is METU Student Branch (Turkey). Congratulations to their

web team! All the details can be found at http://www.ieee.org/r8_sac/awards/#sec312

Third, the Computer Society International Design Competition took place this year for the very first time and 4 out of the 10 finalists (from a total of 50 competing teams) are from Region 8 (Moscow State University (Russia), Poznan University of Technology (Poland), Slovak University of Technology (Slovakia) and Technical University of Plovdiv (Bulgaria)). The finals were scheduled for June 27th so that by the time you read this you will find the winners at <http://www.computer.org/csdc>

Last but not least, students from the Sharif University Student Branch (Iran) won the Championship title of the European ROBOCUP-2000 held in Amsterdam, The Netherlands. More information at <http://www.robocup.nl>

You can be the next one in getting the fame and, as one the IEEE brochures stated: the sky is the limit! :-)

I'm not finishing this message without referring again to the extremely successful SBC held last May. The guys in Eindhoven really did a superb work and they raised the quality level to an astonishing height! Thank you very much to the organizing committee and all the attendants, they all really "Brought the Branches Together"!!!!

Javier Macias-Guarasa
E-mail: j.macias@ieee.org
IEEE R8 Student Activities
Committee Chair

R8 SAC Web Site and mailing lists

Just a quick message to remind you about electronic communication for student activities. First of all, the R8 SAC Web Site has been growing this year and we believe it's becoming a great information supply center for students in our region. This time and thanks to Christian Borgert, the R8 Electronic Communication Coordinator, we got a brand new alias for

the page, much easier to remember. Now, point your browsers to: http://www.ieee.org/r8_sac/ and have fun!

Second, I would like to ask you to make sure you get an IEEE email alias (<http://eleccomm.ieee.org/personal-aliases.shtml>) and that you get properly connected to the mailing lists we created to disseminate information on student activities. In order to receive information and announcements, please make sure that:

- ♦ As a branch, you are included in the sb-r08 mailing list (normally the members of the executive committee should be subscribed, using a unique branch email alias)
- ♦ As a student, you are included in the students-r08 mailing list

In order to subscribe to these lists, please send a message to majordomo@ieee.org and in the mail message body, put the line: subscribe <list>, where <list> is sb-r08 or students-r08

Let's network Region 8!!!!

Javier Macias-Guarasa
E-mail: j.macias@ieee.org
IEEE R8 Student Activities
Committee Chair

PREP 2000 - 11-13 April 2000

This was the second PREP event, held at the Jubilee campus of Nottingham University. PREP is a conference at which only postgraduate students presented oral and poster papers (i.e. it is focused primarily on research students). It was a very well attended event, with EPSRC sponsoring 250 free student places. This year, the IEEE organized a membership booth on the exhibition day (12 April), and this proved to be an extremely successful way of recruiting several new student members providing information on various matters relating to membership and member services.

Dr Stavros Iezekiel
E-mail: s.iezekiel@ieee.org
Web: <http://www.elec-eng.leeds.ac.uk>

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Germany

e-Studentday 2000: EXPO Highlight

From September 23 to 27, 2000 in Hannover, Germany, 500 Electrical Engineering, Electronics and IT students from all over the world are to meet at the first world exposition of the new millennium.

The IEEE Student Branch Hannover and the organisation committee of e-student day would like to invite every IEEE Student Branch of Region 8 to take part in this event and to experience five days of communication with students from an amazing range of countries, jointly developing amazing ideas, dancing amazing dances and being among the first people to take a look at what mankind's most important millennium will bring us.

The days are filled with a program containing:

- ♦ multinational working groups and discussion forums (on the subjects Start-Up, International Career and Future Trends & Technologies): joined by renowned experts (e.g. heads of successful Internet start-ups)
- ♦ the organization of industrial placements abroad: interesting companies offer practical training, research and post-graduate possibilities and individual careers advice (among them Infineon, Hewlett-Packard, Motorola, Nokia)
- ♦ trips and tours: visit German high-tech research centres - or explore Germany's most fascinating cities, e.g. Berlin and Hamburg (and Germany's beers by joining the trip to Beck's Brewery, Bremen)
- ♦ the World Microtechnologies Congress MICRO.tec 2000, organised by the German Association for Electrical, Electronics & Information Technologies which hosts two days of e-studentday: a unique forum for the worldwide engineering community to exchange ideas, experiences and information on the current developments and trends in microtechnologies and their applications
- ♦ EXPO 2000: MICRO.tec will take place in the heart of the world exposition

EXPO - so organise your day with the attendance of lectures and visits of breathtaking installations at EXPO

- ♦ Parties: have a beer with scientists from the MIT, German politicians and other people worth meeting

Groups of students from several Universities within Region 8 will join the event, the congress language will be English. Every participant from abroad will be housed in a modern youth camp close to the site of EXPO 2000. Detailed information on program, participation, prices and travel is provided on www.studentday.de.

So after the exciting Student Branch Congress in Eindhoven in May 2000 this is another chance to meet with IEEE student members from many different countries.

We are looking forward to welcome you at e-studentday 2000!

*Michael Winkler & Mario Schlosser
IEEE Student Branch Hannover, Germany*

IRAN

Shahed SB

In February 2000, the IEEE approved the formation of an IEEE Student Branch at Shahed University, Iran. This University was established in 1988 and the Faculty of Engineering with 3 departments (Electrical and Electronics Eng., Computer Eng., and Biomedical Eng.) started its activities in 1994. The faculty now has some 400 undergraduate students, 40% of them are female. The faculty has very well equipped laboratories with instruments being among the most modern in the world.

The IEEE student members since the formation of the IEEE Student Branch have been quite active organizing one-day workshops in the Branch on robots, radar, optical electronics, etc. and plans for other workshops, industrial visits,... have also been arranged for the rest of the year.

Lastly, I would like to thank the Faculty's past head, Dr. Hassani, for his support and all the students who worked hard for the past year in order to establish the IEEE Student Branch at Shahed

University, and we hope to be one of the most active Branch in the region8.

*Ahmad Rostami
Chair Shahed University
Student Branch*

Azad SB

Perspectives

It is now one year since the IEEE branch at the Islamic Azad University of Tehran (I.A.U.t.), central branch was established.

During this time we learned a lot of things about student activities, volunteer activities, managing a team and other things that will be very useful for us.

In this time we held "First IAUT Conference in Electrical Engineering" on 8 and 9 June 1999 and two technical tours. Every month we held 10 scientific meetings. Our students are very interested in student activity. Thanks to all of those who helped us during this crucial period, especially Sara Bavi and Faezeh Zargarani.

I wish the new officers of our branch who come after us every success.

*Reza Kabiri Moridifar
Student Branch Chair (1999-2000)
rkabiri@ieee.org*

Student Professional Awareness Conference (S_PAC 10 Jun 1999)

We accomplished (S_PAC) in 10 Jun 1999. Eight lecturers were invited and more than 150 students were attended in the Conference. It took from 9 AM up to 7 PM. Dr. H.Gaforifard IEEE Section Chair talked about government's plan about youth and their job's problems. Mr. Ebrahimi spoke about establishing companies and corporations. The new concept of profession was introduced by Dr. k. Badi. The lecture of Mr. K.Ziaie was about ISO. He explained all kind ISO. Mr. H.Avanesian IEEE Section Secretary spoke about careers in electrical engineering. "Get ready for job interview" was the subject that Dr. M.Saatchi spoke. Dr. H.M.Shanechi spoke about international dealing. The last one

who talked about conditions of Iranian bazaar was Mr. Farahani.

Education & Leisure Tour of Isfahan (11 - 14 October 1999)

We had a very useful and wonderful journey in Isfahan. More than 80 students were invited by IEEE student branch of Najafabad AZAD University. The journey was composed of two main part: the first part: visiting industrial places and the second part visiting monuments of Isfahan.

In the first part the students visited Mobarakeh Steel Factory and Iron Melting Factory of Isfahan. In the second part students visited the monuments of Isfahan. At the end I should thank from IEEE student branch of Najafabad AZAD University that provided very good facilities for us.

TURKEY

EMU CS SB Chapter

In July 1999, the IEEE approved the formation of an IEEE Computer Society Student Branch Chapter at Eastern Mediterranean University (EMU). We are the first student branch chapter in Turkey Section, which is a chapter of EMU Student Branch formed in January 1995. Eastern Mediterranean University is the first and largest university in the Turkish Republic of North Cyprus. EMU is an international university with a population of about 13,000 students from 65 different countries, with 900 academic staff from around the world (more than 34 nationalities) and modern facilities.

As a newly formed SB chapter, in the Fall 1999-2000 semester our chapter spent time organizing and planning its activities and the distribution of duties amongst the volunteers of the chapter have been defined. In the Spring 1999-2000 semester, our activities have already started. Generally our activities can be summarized as follows:

1. Technical activities: we have two technical groups working under our chapter, namely ATM Research Group and C Programming Group. These groups are working on both theoretical and practical

issues under the supervision of departmental instructors.

2. Social activities: Many different Social activities are being prepared and organized. Some of these are sports tournaments, celebrations, orientation programs and as such.

All of these technical and social activities are open to all students and staff of the university. We are happy that these activities have attracted many IEEE members and non-members in the university (even from the outside people!).

In March 10, 2000, the Faculty of Engineering Dean and IEEE Turkey Section ex-chair, Prof. Dr. Mehmet Tolun, has officially opened our student branch chapter office. On the same day, Prof. Tolun was the speaker at the IEEE orientation meeting, where he explained the benefits of IEEE membership and a video has been shown about IEEE. At the end of this meeting an official ceremony commemorated the opening of our chapter office (as you can see in the picture) in the new Computer Engineering Building at EMU. About 100 people attended above activities, one third being IEEE members.

Some of our organized activities include a seminar on "Parallel Computation on a cluster of PCs with Remote Procedure Call" by the C programming group, and a table tennis tournament. Our technical and social activities are also drawing new IEEE members to our SB chapter. We have our own web site, which is updated on a regular basis where one can find the latest information about our activities and more about us. Please feel free to contact. Our URL is: <http://ieee.cmpe.emu.edu.tr>

Cenk Atlig
EMU IEEE CS SB Chapter Chair
Eastern Mediterranean University
E-mail: atlig@ieee.org



Opening the Computer Society SB Chapter Office in the new Computer Eng. Building at EMU - Left to Right, Dr. Isik Aybay, Computer Eng. Dept. Chair, Prof. Mehmet Tolun, Turkey Section Ex-Chair and EMU Faculty of Engineering Dean, Dr. Muhammed Salamah, IEEE SB Chapter Advisor and Computer Eng. Dept. Assistant Chair, and Cenk Atlig, IEEE SB Chapter Chair.

GROUPWARE OR LABOR IN-GROUP (III)

Electronic mail consists of the exchange of written notes between two persons, using an electronic support such as a communications network. Each user establishes a private environment (mailbox) where he or she maintains a copy of the sent and received messages.

The mail system will be entrusted to pass the message by the various "postal offices" until it will be delivered to the consignee.

While time passes, the mailbox is converted into a frame of reference to locate information and data that has been sent, received or generated. It is more useful: it can be used even to send messages to oneself as a means of keeping and classifying interesting information. A consequence of this can be the high number of messages existing in the mailbox, with the problems of space and administration, setup and organization of the data to make its later access easier.

In a certain sense, it can be affirmed that the electronic mail is a victim of its own success. Its simplicity of use and high number of users has led to a message explosion. When its users reach a given

continued on page 14

threshold, it is typical that the messages are accumulated without reading, so there is an important loss of data that would have to reach its consignee. It can come to a point where all the working hours are devoted to reading and answering the mail, reading low priority outstanding messages. In contrast with this you could have the situation where the users forget to check their mailbox because they fear that this will occupy so much of their time that impinge in a negative way on their productivity. This may result in a loss of important data or reduction of attention to urgent tasks.

A relation between productivity and number of messages received can be established empirically. At the beginning, as the number of messages grows, the impact is positive due to the fact that the users quickly obtain the information that they need. However, while the volume and the complexity of the information received increases, the productivity starts to reduce.

Finally, with a high number of messages, it arrives at a point in which this excess has a negative impact on the productivity due to the fact that the actually necessary information is mixed with the one which others think that is needed. To alleviate this situation, rules, filters, hierarchic files and an endless number of tools have been invented to organize the messages. At this point, the increase in productivity by being able to quickly obtain the necessary information are compensated by the effort of sorting it and to classify it according to its relevancy.

With e-mail, problematic situations appear if it is used as the basis for the conversations of a group. For this purpose, a mailing list is established and each message

is sent to the entire group. The answers or comments are sent to the entire group again. Though a user has a low participation in the conversation of the group, he or she can have an avalanche of messages of little interest that only introduce noise into his or her work. In the same way, there will be problems related to the tracking of the inspection process, if the electronic mail is used as a basis for the processes of document review by sending them as attachments to messages. There are other solutions to tackle these problems in a more efficient way.

However, it is evident that the usage of the electronic mail in a student branch presents a series of advantages. Among these - besides the already known (concerning communications, location of scattered members, use of the IEEE alias, actions and coordination of activities) - can be highlighted:

- ♦ the saving in the cost and time of sending of messages (opposite to the fax or couriers),
- ♦ rapidity of availability and of recovery of the information, and
- ♦ the fact that the messages are in digital format, therefore it is not necessary to print them for their reading, with an additional saving in the storage costs.

With this third article, a series of articles devoted to the labor in-group in student branches is concluded. They have treated the most important aspects in reference to this topic. Standards have been given to obtain better results and the principal reefs and difficulties have been emphasized.

Nevertheless, each day, new tools appear that support labor in-group and the

joint administration of information and data, especially for LINUX. Any additional information and comments will be welcome. For this, and if you wish more detailed information, simply send an electronic mail with the suggestions to j.s.ponz@ieee.org. Thanks!

Jorge-Luis Sánchez-Ponz
Region 8 Student Representative

Collaboration Brings Cd-Rom On Careers To Students

This April, all IEEE student members in Regions 1-7 and those subscribing to "IEEE Potentials" magazine in Regions 8, 9 and 10 received a complimentary copy of the CD-ROM "Careers for Electrical Engineers & Computer Scientists" with their issue of "Potentials." The CD-ROM normally sells for US\$19.95.

This mailing marks a collaborative effort by IEEE Regional Activities and Educational Activities to provide the CD-ROM to as many students as possible. The CD-ROM, part of the Sloan Career Cornerstone Series, is a multimedia resource kit that includes an overview of the disciplines, video profiles of young professionals discussing their careers, a list of resources and databases, and a career development exercise.

For more information on the Sloan Career Cornerstone Series, visit the student career Web site at <http://www.ieee.org/organizations/eab/sloancareers/sloancareers.htm> ♦

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Vol. V, No. 10

Deadlines and Upcoming Events

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.	September 23-27	e-Studentday 2000 at EXPO, Hannover, Germany (see article in this issue)
August 15	Rebate Checks will be sent if the Annual Report of Activities has been received by headquarters in time (deadline May 1).	November 1	Annual Plan of Activities due to student services
		December 15	Student Paper Contest deadline

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

News from IEEE

Worldwide Lecturer/Research Fulbright Awards Available

The Council for International Exchange of Scholars (CIES) announces that lecturing/research awards worldwide are available for American faculty and professionals under the 2001-2002 Fulbright Scholar Program. The application deadline is 1 Aug 2000.

Awards in electronics, information, and telecommunications technology exist in many countries such as The Fulbright-Nokia Fellowship for lecturing/research in Finland.

Specialists are needed in these areas: information systems design, software management, multimedia databases, signal processing, image and video processing, medical imaging, communication and information theory.

For more information, contact Karen Adams, CIES, MailTo: kadams@cies.iee.org.

The Fulbright Commission in Malaysia also has requested specialists in multimedia and information technology, including microelectronics, parallel computing, multimedia databases, digital design, computer graphics and animation, and computer networking and security issues. The application deadline also is 1 Aug.

For more information, contact Jean McPeck, CIES, MailTo: jmcpeek@cies.iee.org.

Further information on these and other awards, as well as downloadable application forms, can be obtained from the CIES Web site at <http://www.cies.org>.

The IEEE LEADERSHIP WIRE

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Global Course Access and Discounts Too

PISCATAWAY, NJ. April 28, 2000. On June 1 professional development gets easier and more convenient for IEEE members. That date marks the start of full access to the co-sponsored Stevens Institute of Technology Online WebCampus courses and the all-IEEE generated Video-on-Demand tutorials. Either one click-off the Educational Activities Board (EAB) homepage for easy access to either or use the discrete sites quoted below.

IEEE members receive a 10% discount on all Stevens WebCampus online courses. The Stevens online courses, currently numbering eleven, are in three hot fields: Wireless Communications, Telecommunications Management, and Technology Applications in Science Education. Our members and their employers appreciate that the same highly respected Stevens faculty teaches both the traditional oncampus courses and the online courses.

EAB Professional Development committee member, Sameer Kalra, while still a graduate student at Stevens, participated in the design of the online Wireless course. To Mr. Kalra "the single most important feature of the online course is that you can access it anywhere, anytime at your convenience." The busy professional can determine scheduling, course lengths, order of classes, and graduate credit or Continuing Education Unit options, from anywhere in the world. Modest systems requirements make these courses global friendly.

Check registration requirements and sample a class at the Stevens website: http://attila.stevens-tech.edu/gradschool/distance_learning/courses/sample.html.

For Video-On-Demand IEEE partnered with Softcom, Inc. to stream videotapes of lectures and tutorials over the web directly to the user's desktop. By using a free Real Networks G2 player, members are able to watch the tutorials from any computer connected to the Internet in any part of the world without a download period.

Fifteen moderately priced tutorials, taught by experts in their fields, are currently being offered in five subject areas including communications, computer engineering and networking, power and energy, and signal and image processing.

All courses feature a five to seven minute preview, so users can browse before buying. Courses are available as one-month subscriptions from the order date and may be purchased online. Included with the integrated, synchronous audio, video, and slide presentation, is a Frequently Asked Question page, help screens and an interactive table of contents that allows users to go directly to information or presentations of interest.

Systems requirements and previews are explained on the Video-On-Demand webpage <http://ieeemediaplatform.com/vod/iee/index.po>.

Stevens and VOD are just a start to a series of innovative partnerships of IEEE Educational Activities with industry and university educational programs and delivery systems. The series will maximize life long learning and professional development opportunities for IEEE members globally. +

Lynn Murison

Outreach Administrator

IEEE Educational Activities

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"Future Energy Challenge" Competition

More than US\$75,000 is being offered in the 2001 Future Energy Challenge competition for qualified college engineering teams to build a prototype, low-cost inverter. This competition is being sponsored by the IEEE Power Electronics Society in collaboration with the National Association of State Energy Officials, and the U.S. Departments of Energy and Defense.

Participating schools will be judged on the basis of design quality, a formal engineering report, cost analysis, prototype quality, and operational results.

Interested schools should contact Robert Myers, Administrator, IEEE Power Electronics Society, at MailTo: bob.myers@ieee.org or visit the IEEE PELS Web site at <http://www.pels.org>.

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News from IEEE *continued*

New Power Engineering Tutorial from IEEE

PISCATAWAY, NJ, 8 May 2000. Four experts from Rensselaer Polytechnic Institute of Troy, New York are the presenters for the new tutorial from IEEE, Principles of High-Voltage Engineering. This tutorial is ideal for design engineers, users, purchasing officers, operations managers, technicians, and electrical engineering or physics students concerned with high voltage equipment.

In recognition of the global, workplace, and personal preferences of our members' approach to learning, IEEE Educational Activities is offering this tutorial in a variety of modes. "Principles of High-Voltage Engineering" is now available as a four videotape package, interactive CD-ROM, or by video-streaming from the IEEE Video-On-Demand website.

The tutorial combines lecture, PowerPoint references, and onsite Electric Power Engineering Department laboratory demonstrations to illustrate the high-voltage principles. It is divided into four subject categories:

- ♦ Basic Principles of Electric and Magnetic Fields, presented by Sheppard Salon
 - ♦ Basic Principles of Switching, presented by Allan Greenwood
 - ♦ Transient Voltages in Windings, presented by Robert Degneff; and
 - ♦ Insulation Materials and Dielectric Design, presented by J. Keith Nelson. Integrated into the Insulation Materials and Dielectric Design portion of the tutorial are field visits to EPRI Delivery and Utilization Center at Lenox, Massachusetts. At that site, Mr. Nelson highlights functioning instruments that protect high-voltage equipment.
- By the end of the tutorial, the user will:
- ♦ Obtain a fundamental understanding of the basic principles of electric field production in high-voltage equipment.
 - ♦ See how switching operations and lightning can result in subjecting the equipment to high voltages.
 - ♦ Obtain an understanding of the voltage distribution in windings of transformers and machines.
 - ♦ Learn practical techniques to control high voltage and protect equipment.

Order Information:

IEEE Product Number (for NTSC version): HV7045 List \$780.00 / Members: \$650.00

IEEE Product Number (for PAL version): HV7046 List \$780.00 / Members: \$650.00

Web Product number: EW129. List \$199.99 / Members: \$179.99

CD-ROM Product Number: EC126. List \$755.00 / Members \$625.00

All formats can be ordered from the IEEE Customer Service Department, 445 Hoes Lane, PO Box 1331, Piscataway, NJ 08855-1331, USA; by e-mail: customer-service@ieee.org; by phone: 1.800.678.4333; at our new site on the Web: <http://shop.ieee.org/store/>. To check out systems requirements for Video-On-Demand go to <http://ieee.mediaplatform.com/vod/ieee/index.po>.

For further information on Education Activities check our website www.ieee.org/eab.

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Educational Activities

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www.ieee.org/organizations/eab/

Section and Chapter News

continued

Environment". After that, a session with five student papers was held.

Chapter student members received plaques in "recognition and appreciation of valued services and contributions".

After the Meeting, discussions were continued during the lunch at the Vinnysia State Technical University and afterwards, during the dinner given at the restaurant Orbita. The Meeting has enjoyed good reception by participants.

Vigorous activity is being planned for the Vinnysia Chapter. ♦

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DEADLINES

Material to reach me by the following date: November 2000 - 8 September 2000

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