

# IEEE region 8 news

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

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

## IEEE Life Fellow Honored by Russia's President Putin

A ceremony in honor of Academician Vladimir Kotelnikov on his 95th birthday was marked on September 12, 2003 by a Session of the Institute of Radio-engineering & Electronics (IRE) of the Russian Academy of Science. Prof. Kotelnikov is considered the Dean of the Russian communication scientists and engineers as well as the elder statesman of Russian communication technology.

Russian president Vladimir Putin sent greetings: "*Prof. Kotelnikov has the right to be recognized as the Corphaeus of Russian science. Your outstanding research contributions together with your fruitful teaching and state activity are invaluable and brought you deserved authority and respect.*"

Kotelnikov received the highest Russian award: "Order of Merit to the

Motherland of the 1st grade" for his outstanding achievements in the development of Russian science and for long term creative activity.

IEEE President Michael Adler and IEEE Past President Joel Snyder greeted Prof. Kotelnikov on behalf of the IEEE Board of Directors and all IEEE members around the world: "Today we honor the birthday of an engineering and scientific giant who has contributed in vast measure to modern communication theory and sets an example for each of us who aspire to improve our world." Kotelnikov, an active member of



Vladimir Kotlelnikov, age 95 (second left), is congratulated by Prof. Leonid Varakin Joel Snyder and Michael Adler

the Executive Committee of the IEEE Russia Section, was awarded the IEEE Alexander Graham Bell Medal "for fundamental contribution to signal theory" in 2000.

*Contributed by  
Heinrich Lantsberg*

## IEEE Presidents in Saint Petersburg, Russia

In September 2003, the IEEE Russia North-West Section received IEEE President 2003 Michael Adler, his wife Virginia and 2001 IEEE President Joel Snyder in St. Petersburg. During their visit, Mike and Joel met with the Section Conference Committee and opened the EMC 2003 Fifth International Symposium on Electro-Magnetic Compatibility and Ecology.

They spoke of the advantages of being a member of the IEEE and invited professional engineers to join. A certificate acknowledging the establishment of the Russia North-West Section was presented to its Chair, Dmitry Puzankov of St. Petersburg Electrotechnical University. At the university, they visited the Alexander S. Popov museum. Prof. Popov, the first elected director of the university, originally



demonstrated the principle of radio. This fact isn't known to everybody since Marconi acquired the patent before Popov because the Russian authorities wanted to keep the invention secret!

*Olga Romanova  
Section Press Attache  
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# Editor's Ramblings...

We missed the deadline for mailing with February **IEEE Spectrum**, so here is Feb/March 2004 edition of Region 8 News!

There are a couple of important announcements, which affect you, our readers. The first is to welcome Hugo Wyss to our Region 8 News advisory panel. Hugo is a Senior Member from Switzerland Section with business experience and a knowledge of IEEE, Swiss industry and electrotechnology. He joins past editor Duncan Baker and me in developing a strategy for the future delivery of R8News.

The second is to begin a Members' Survey of this Newsletter. On page 13 we invite you to answer a few questions, and tell us if you would like to receive some (or all!) of the contents of Region 8 News by e-mail, or web.

Let me share some thoughts with you... Every 24-page print edition includes about 15,000 words, 50 finished articles, 40 photographs, and many cartoons or illustrations. Fifty thousand copies are printed and mailed individually to you. At 60 grams each, about 3,000 kilograms of Region 8 News! That's a big truckload!

R8News is mailed in the same envelope with IEEE Spectrum. After June, our share of the mailing cost will triple. So we have to trim the size or reduce the number to fit our budget.

Maybe we can find sponsors and advertisers to pay some of the cost. Maybe some of our members would prefer receiving an R8News E-Mail edition? How many are happy reading our Web site edition? I feel that R8 News helps members share their professional lives with others — a modest record of what we do. Please respond to our survey on page 13.

*Roland Saam  
January 29, 2004*

PS: Thank you to all our contributors and apologies for the absence of Photo Quiz, which will reappear in May. Please mention "I saw it in Region 8 News".

## REGION 8 CONTACTS

**Advertisements** are welcome. Prices, deadlines, and information — contact the Editor.

**Region 8 Website:** [www.ieee.org/r8](http://www.ieee.org/r8)

**Student Paper Contest** — Martin Bastiaans: [m.j.bastiaans@ieee.org](mailto:m.j.bastiaans@ieee.org)

**MELECON-2004** [melecon@melecon2004.org](mailto:melecon@melecon2004.org)

**AFRICON-2004** [gerhard.hancke@eng.up.ac.za](mailto:gerhard.hancke@eng.up.ac.za)

**Information HELP Desk:** [member-services@ieee.org](mailto:member-services@ieee.org)

### REGION 8 OPERATING COMMITTEE

Byelaws and descriptions of the committee offices — refer to <http://www.ewh.ieee.org/reg/8/committee/index.html>

E-mail addresses of Region 8 Committee Officers 2004:

#### Officers and Vice Chairs

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Region 8 News is published quarterly by the Region 8 Committee of The Institute of Electrical and Electronics Engineers and distributed free with IEEE Spectrum, to more than 50,000 IEEE members. Extra copies for distribution at IEEE events, Send your request by e-mail before the deadline and please specify quantity and delivery address. Articles from any member of the IEEE are welcome. Please send as Plain Text, RTF, or DOC files. Send photographs separately as JPG files. Emails: Subject [R8News]

**Student News** to: [R8StudentNews@ieee.org](mailto:R8StudentNews@ieee.org).

**GOLD News** to [R8GOLD@ieee.org](mailto:R8GOLD@ieee.org).

Read **past issues** at [www.ieee.org/r8](http://www.ieee.org/r8).

The deadlines for Region8 News for 2004 are as follows:

May 2004 issue:	1 March
August 2004 issue:	1 June
November 2004 issue:	1 September

#### Acknowledgements

Drawings: copyright Tayfun Akgul  
Layout Services: *Bridson and Bridson*  
Photos: R. Saam; S. Malyshev; A. Mikerov; B. S. Hoyle; R. I. Omar; A. Vazquez; R. Findlay.

# Reflections at Half Time

by Tony Davies,  
Region 8 Director  
2003 & 2004



Halfway through my term as R8 Director is a good time to review the past year and look forward to the next. It will be a pleasure to work with Director-Elect, Baldomir Zajc, whom I have known personally for a long time as an enthusiast for IEEE.

An immediate consequence of being R8 Director is a substantial amount of

travel, which provides opportunities, adventure and a framework to meet old friends and to make many new ones.

It would be impossible to accept all the invitations I receive. Many conference organisers welcome the presence of an IEEE Director at the opening ceremonies of their events, allowing me to explain how IEEE originated and developed, what it is now, and what it can offer. Many aspects of IEEE that are believed 'well-known' by active volunteers are often 'unknown' and are therefore interesting both to members and non-members.

It has been a particular pleasure to visit Student Branches and to discover the enthusiasm of students for IEEE. We have to find ways of maintaining that interest after they graduate and to encourage employers to realise that IEEE membership brings many benefits to their employees.

During 2003 IEEE faced many difficulties. The SARS epidemic and terrorism reduced conference attendances and together with reduced income from investments led to financial problems.

*Continues page 4*

## The IEEE Foundation (III)

### How to Apply for a Grant

In my last article on the Foundation (November Region 8 News) I explained the areas for Foundation support and described a few examples of current projects. This article explains the actual procedure if you want to apply for Foundation support of your project.

The IEEE Foundation is a supporter of programs that make a significant, positive, and global impact on the profession and of projects that will cause a lasting impression on electro-technology and related fields. The Foundation does not provide funds for overhead expenses, nor for any cost associated with regular ongoing business. The project champions are expected to work on a volunteer basis and travel expenses are only considered if they clearly support the project.

If you feel your project falls within the Foundation's goals and you want to apply for a grant, then follow this procedure.

### Preliminary Proposal, Abstract or a Full Proposal

Start with a Preliminary Proposal Abstract, which requires a minimal amount of work for the applicant and allows the Foundation to determine whether or not a full proposal will fall within the guidelines for funding. You should use the form which can be found on the web under [www.ieee.org/organizations/foundation/html](http://www.ieee.org/organizations/foundation/html) and email to the IEEE Foundation Grants Committee at [foundation-office@ieee.org](mailto:foundation-office@ieee.org).

If the Grants Committee decides that the Preliminary Proposal Abstract falls within the guidelines the applicant will be invited to submit a Full Proposal.

Before you continue compiling information for your proposal, you should consider the guidelines of the Foundation and ensure that they are dealt with in your submission. A short extract is shown below. Your submission should include:

- Geographical outreach of the project,

- local area or broader audience
- Replication or duplication of the project outcome in other areas or units
- Co-sponsoring by other organizations
- Services from vendors should include several bids

A Full Proposal requires:

- detailed budget, clearly defined payments with amount and date
- timeline for submissions of invoices and status reports
- continuous status reports to Project Review Committee to prove progress
- Final Report to Foundation after completion of project

For more details, please refer to the guidelines in the Web under [www.ieee.org/organizations/foundation](http://www.ieee.org/organizations/foundation) and to the following headlines:

- Preliminary Proposal Abstract Form
- Submission Procedures for Full Proposal
- Grants Review Process
- Projects Report Guidelines

In case you are not able to access the Internet, please contact or mail to :

*IEEE Foundation Grants Committee  
c/o IEEE – Corporate Activities  
445 Hoes Lane  
Piscataway, NJ 08854  
USA*

If you need any other help or advice, please feel free to contact me

*Rolf Remshardt  
[r.remshardt@ieee.org](mailto:r.remshardt@ieee.org)*

### The Approval Process

The Foundation Grants Committee will decide on the approval of your preliminary Proposal Abstract. The Full Proposal inclusive funding has to be approved by the IEEE Foundation Board of Directors. Its decision will be announced one month after the Board meeting. Submissions should be made according to the approval process and these deadlines:

Board Meeting	Preliminary Proposal Deadline	Full Proposal Deadline
June 2004	14 March 2004	25 April 2004
November 2004	15 August 2004	26 September 2004
March 2005	2 December 2004	13 January 2005

# Reflections at Half Time *continued*

*Continued from page 3*

Despite IEEE's remarkable success in overcoming these financial setbacks, the impact on finances of IEEE Societies has been dramatic, resulting in less support for Chapters, for Distinguished Lecturer tours, for conference travel-grants, etc. Increased difficulties, delays and costs of obtaining visas added to the problems of events having international attendances.

The distributed structure of IEEE (with locally-managed Sections, Chapters, Societies, and so on) makes it very

adaptable. Trends towards increased 'centralisation' have emerged in recent years, partly in response to events such as the 'Enron' scandal, and partly from the impact of some USA laws on the freedom of IEEE to conduct its activities as an international non-political professional organisation. Some tendency towards 'centralisation' is understandable, but in my opinion, the autonomy of IEEE Societies, Sections, Chapters, etc. is vital for IEEE's continuing success.

In Region 8, I am convinced there are great opportunities for IEEE to benefit the

community by technical contributions of members, by conferences, by continuing education programmes, by publications and by activities for students and new graduates. IEEE provides an exceptional framework for linking engineers internationally. In many ways Region 8 has shown a leading example to the rest of IEEE, and I am sure that will continue.

I wish you all a successful and enjoyable Year 2004.

*Prof. Anthony C Davies*

*IEEE Region8 Director*

*27 Dec 2003*

## Region 8 Fellows Elected Class of 2004

### **Our Region 8 Awards and Recognitions officer, Duncan Baker, writes:**

The following of our colleagues have achieved the highest membership honour in our Institute. This distinction is conferred only by invitation of the Board of Directors upon persons of outstanding and extraordinary qualifications and experience in IEEE-designated fields, and who have made important individual contributions to those fields.

Congratulations to the following Senior Members who were elected to the grade Fellow in 2004.

### **Benelux Section**

#### **Bart L. R. De Moor**

*Katholieke Univ. te Leuven  
Leuven, Belgium*

#### **Erik H.M. Heijne**

*CERN  
Geneva, Switzerland*

#### **Augustus J.E.M. Janssen**

*Philips Research Labs  
Eindhoven, The Netherlands*

### **France Section**

#### **Jean-Luc Bernard Leray**

*CEA Atomic Energy Commission  
Bruyeres-Le-Chatel, France*

### **Germany Section**

#### **Alberto Moreira**

*German Aerospace Center  
Wessling, Germany*

#### **Jurgen Nitsch**

*Otto von Guericke University  
Magdeburg, Germany*

#### **Friedrich Pfeiffer**

*Technical University Munich  
Angewandte Mechanik  
Garching, Germany*

### **Greece Section**

#### **Michael G. Strintzis**

*Informatics & Telematics Institute  
Centre for Research & Technology Hellas  
Thessaloniki, Greece*

### **Iceland Section**

#### **Jon Atli Benediktsson**

*University of Iceland  
ECE Department  
Reykjavik, Iceland  
Ed. Note: Jon is also Iceland Section  
Chairman*

### **Israel Section**

#### **Tuvi Etzion**

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#### **Arie Feuer**

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Department of Information Engineering  
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#### **Giancarlo Prati**

*Universitari e di Perfezionamento  
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### **Russia Section**

#### **Alexander Lvovich Fradkov**

*Institute for the Problems of Mechanical  
Engineering  
St. Petersburg, Russia*

### **Saudi Arabia Section**

#### **Asrar Sheikh**

*King Fahd University of Petroleum &  
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Dept. of Electrical Engineering  
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*University of Castilla — La Mancha  
ETSI Industries  
Ciudad Real, Spain*

## Sweden Section

### Jan I.H. Askne

Chalmers University of Technology  
Gothenburg, Sweden

### Mikael Ostling

KTH, Royal Institute of Technology  
Dept. of Microelectronics & Information  
Technology  
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### Bjorn Erik Ottersten

Royal Institute of Technology  
Dept. of Signals, Sensors & Systems  
Stockholm, Sweden

### Christer M. Svensson

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Dept. of Electrical Engineering  
Linköping, Sweden

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Zurich, Switzerland

### Jean-Yves LeBoudec

EPFL Lausanne  
Lausanne-EPFL, Switzerland

### Hans-Andrea Loeliger

Swiss Federal Institute of Technology  
Laboratory for Signal & Information  
Processing  
Zurich, Switzerland

### Michael Waidner

IBM Zurich Research Laboratory  
Ruschlikon, Switzerland

## Turkey Section

### Binboga Siddik Yarman

Isik University  
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## Ukraine Section

### Alexander Nosich

Institute of Radio-Physics and  
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Kharkov, Ukraine

### Yakov Shirman

Kharkov Military University  
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Uxbridge, United Kingdom

### Thomas Joseph Brazil

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### Jonathon A. Crowcroft

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### George W. Irwin

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Belfast, Northern Ireland

### Ron H. Perrott

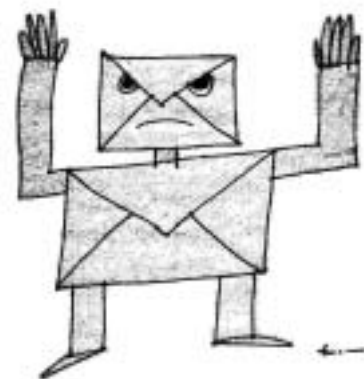
Queens University Belfast  
School of Computer Science  
Belfast, United Kingdom

## Yugoslavia Section

### Ninoslav Stojadinovic

University of Nis  
Department of Microelectronics  
Nis, Serbia & Montenegro  
Ed. Note: Nino is also Yugoslavia  
Section Chairman

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## Region 8 Members' Awards 2004

At last November's IEEE Board meeting in Seattle, highly prestigious honors were awarded to a number of Region 8 members. Congratulations to all the people listed below, who receive awards and medals for 2004.

### IEEE Ernst Weber Engineering Leadership Recognition 2004

#### IEEE Corporate Recognition Award

**Pasquale Pistorio**, CEO and President, STMicroelectronics, Geneva, Switzerland.  
*For leadership in revitalizing the semiconductor industry in Europe and increasing its influence worldwide.*

### IEEE Solid State Circuits Award 2004

#### Sponsored by IEEE Solid State Circuits Society

**Eric A. Vittoz**, Executive Vice President, CSEM, Neuchatel, Switzerland.

*For pioneering contributions to low-power device modeling and CMOS circuit design.*

### IEEE Simon Ramo Medal 2004

#### Sponsored by TRW Foundation:

**Boris E. Chertok**, Rocket Space Corporation "Energy", Moscow, Russia and **Nikolai N Sheremetevsky**, Adviser to Director, All Russia Institute for Electro-

mechanics, Moscow, Russia.

*For significant contributions to systems engineering and technical leadership of control systems design for the orbiting space station Mir (Peace).*

### IEEE Herman Halperin Electric Transmission and Distribution Award 2004

2004 IEEE Technical Field Award  
Sponsored by Herman and Edna Halperin.  
**Andrew John Eriksson**, Executive Committee Member, ABB, Zurich, Switzerland.

*For lightning research and its application to lightning protection of transmission lines and substations.*

# Chapter Coordination

## 32 New Chapters in 2003!!!

by Jozef Modelski

We had a hot summer as well as a “hot” year in the fast growing number of Region 8 Chapters. I’m pleased to inform you that 32 new chapters were formed in 2003, bringing the total number up to some 350 chapters in all.

In autumn 2003 three new chapters were established: (1) CS

Romania, November 17, 2003; (2) E Romania, November 23, 2003; and (3) NN/CS/RA Russia Northwest, November 19, 2003. Russia (Northwest) AES/IE/C/EC/PE Joint Chapter has split into two units — AES/IE/EC/PE and EM/C (October 22, 2003).

We extend our best wishes for the successful operation of all new Chapters!

It is worth noting that new chapters are being formed in sections where there were no chapters until now; in Jordan, for example, and in new sections like Russia Northwest. From the beginning of the year nine Chapters of Neural Networks Society have been formed in Region 8. (Neural Networks is a new IEEE Society in 2003.)

It has become customary to hold Chapter Chairs Meetings (CCM) in conjunction with important international events/conferences which gather the Society into a community. Nowadays, when we have so many ways to exchange information, one might doubt the sense of CCM. However, the advantages of meeting each other in person cannot be substituted by any “virtual” electronic communication.

The main purposes of these meetings are: training chapter representatives in holding technical meetings, improving communication and cooperation between chapters and society representatives, providing opportunity for chapters to highlight best practices and issues.

Friendships formed on these occasions result in new ideas and initiatives, which would not come about otherwise. In autumn 2003 three meetings were held:

- Division IX Chapter Chairs Meeting, September 13, 2003, Barcelona, Spain (in conjunction with ICIP 2003). Organizer: Enis Cetin. The main theme was how to start local activities, local conferences and how to attract major IEEE conferences to our region. There were 23 participants in the meeting (15 out of about 50 chapters represented). Slides of presentations are available on Enis Cetin’s Web page [www.ee.bilkent.edu.tr/~cetin](http://www.ee.bilkent.edu.tr/~cetin). The event was very well attended by prominent representatives from IEEE (SP Society President, Region 8 Director). However the small number of Chapter representatives who attended was really a disappointment.
- RCCC — ComSoc Regional Chapters Chairs Congress, September 22-23, 2003, Rimini, Italy (in conjunction with ECOC 2003). Organizer: Adam Livne. There were about 30 attendees including Chapter Chairs, members of ComSoc Board of Governors, and ComSoc staff. There were two days of

meetings with three sessions and many presentations prepared by ComSoc BoG and Chapter representatives (18 from 38 chapters).

- MTT-S and AP-S Chapter Chairs Meeting October 8, 2003, Munich, Germany (in conjunction with EuMW 2003). Organizer: Jan Zehentner. The meeting was very well attended by MTT-S officers, Region 8 officers, Directors of the European Microwave Association, EuMW General Chair, as well as by the Chapters’ representatives (24 from 38 Chapters). A half-day program included IEEE officers’ and Chapter Chairs’ presentations, best practices, certificates of recognition presentation, and, of course, unofficial discussion during the dinner.

Region 8 Chapters are very active in organizing local conferences. Good examples of successful conferences, which became international events, are DIPED (Ukraine) and TELSISKS (Yugoslavia).

## Chapter of the Year 2003

Nomination Forms for the third edition of the Contest for Chapter of the Year 2003 are available at the Region 8 web site: <http://www.ewh.ieee.org/reg/8/chapters.html>.

REMEMBER: The Contest Form must be submitted no later than February 15!

## IEEE Region 8 LEO and CPMT Review of Chapter Coordination 2003

I was appointed as Region 8 LEOS Chapter Co-ordinator January 2002 and CPMT Chapter Coordinator in January 2003. My professional interests are in the fields of optoelectronics, microelectronics, and microwave photonics.

I would like to tell Region 8 News readers about R8 LEO & CPMT Chapters activities in 2002-2003. International Conferences and Symposiums in our Region with world-class participation:

## LEOS Conferences

- Quantum Electronics — Minsk, Belarus.



October’s MTT-S and AP-S Chapter Chairs Meeting in Munich

- Opto- and Microelectronic Devices & Circuits — **SODC'02**, Stuttgart, Germany.
- New developments in photodetection — Beaune, France.
- Quantum Electronics — **IQEC 2002**, Moscow, Russia
- LEOS Annual Meeting — November 2002, Glasgow, Scotland.
- Electron Devices for Microwave and Optoelectronic Applications — **EDMO**, Manchester, UK.
- Lasers and Electrooptics — **CLEO/Europe 2003**, European Quantum Electronics **EQEC 2003** Munich, Germany.
- Transparent Optical Network — **ICTON-03 and -02**, Warsaw, Poland.

### CPMT Conferences

- Design and Manufacturing Radioelectronics Facilities — Novopolotsk, Belarus.
- Modern Telecommunications Facilities — Naroch Lake, Belarus.
- Actual Problems of Electronic Instrument Engineering — **APEIE 2002**, Novosibirsk, Russia.
- Actual Problems on Electron Devices Engineering — Saratov, Russia.
- Modern Problems of Radio Engineering — Telecomms & Computer Science **TCSET 2002**, Lviv-Slavsko, Ukraine.
- Experience of Designing and Application of CAD Systems in Microelectronics — **CADSM 2003**, Lviv-Slavsko, Ukraine.

### Seminars, Meetings and Workshops

LEO and CPMT Chapters carried out a great number of seminars, workshops, and meetings in 2002-2003.

### Education activity

- **Student Chapters created:** CPMT Sweden, and LEO Student Chapters in Kharkov, Ukraine and Novosibirsk, Russia.
- **Student Conferences** sponsored by Region 8 LEO and CPMT Chapters:
  - Students and Young Specialists — **SibEDM 2002**, Tomsk, Russia.

- Postgraduate Research in Electronics, Photonics, Communications, and Software — University of Nottingham, UK.
- West Ukraine Scientific-Technical Conference of Young Scientists and Students — **YSC 2002**, Lviv, Ukraine.
- Second Siberian Students' LEOS Conference — Novosibirsk, Russia.
- Joint AP-S & LEOS Session of the Moscow Students Conference **REEPE-2003** Moscow



*RCCC 2003 participants*

*Sergei Malyshev  
IEEE Region 8 LEO & CPMT Chapter  
Coordinator*

## IEEE Communications Society

### Region EAME Chapters Chairs Congress (RCCC) 2003

Rimini, Italy

September 21-23, 2003

The IEEE Communications Society Region 8, (Europe, Africa, Middle East) Chapter Chairs Congress took place in Rimini, Italy, September 21-23, 2003 alongside the European Conference of Optical Communications, ECOC-2003.

Thirty attended — Chapter Chairs, ComSoc Board of Governors and staff. The congress started Sunday late afternoon with a “get together”. Next day, Celia Desmond, ComSoc President and Curtis Siller, ComSoc President-Elect welcomed everyone. Seven presentations informed the audience about: ComSoc Mission; “The Next Two Years”; Region8 History; Sister Society relationships; Region8 Activities; Mutual Obligations and Support; Promoting the Communications Society

After lunch six perspectives were debated: Membership Services; Membership Development; Largest Chapter-View from the Top (UK&RI); Winning Chapter- St. Petersburg; Small Chapter-Novosibirsk. These were followed by short presentations by each participating ComSoc Chapter Chair.

At the dinner, the IEEE ComSoc Region EAME 2003 Chapter Achievement Award was presented to Chapter Chair of St. Petersburg, Russia. The second day (Tuesday) brought out many good and practical ideas: A talk on How to Organize Successful ComSoc Meetings was followed by Breakout Sessions. The topics were: Members Retention, Members Benefits and ComSoc-Industry Relations.

There followed a Brain Storming session to propose and discuss stimulating ideas for advancement of the Society:

- Student internship program — Enable three to four selected students a year to spend internship in another country.
- ComSoc certification — Develop a certification program enabling members to become “ComSoc Certified Communications Professionals”.
- ComSoc Industry Relations — Activities should have career advancement value, be professional, be supported by the employer, utilize the global networking capability of ComSoc, provide business opportunity and IP stimulus to the employer.
- Cooperation: promote standardization and provide for direct industry/ComSoc talks and joint events.
- Conferences should include specific industry oriented tutorials and exhibitions.
- Recognition for achievements should be given to industry leaders by awards and plaques.

It was a very successful (and pleasant!) event, thanks to the effort of many people.

*report by Adam Livne,  
Director ComSoc Region 8,  
Coordinator ComSoc Chapters Region 8*

# Section and Chapter News

## IEEE Bahrain Section

### Predictive Control of Power & Transient Simulation

IEEE Bahrain Section organized two presentations in Bahrain Gulf Hotel on Sunday the 5th October 2003. Seventeen people in the Electrical field attended the presentations from the Kingdom of Bahrain, Kingdom of Saudi Arabia and United Arab Emirates.

Dr. Isa Qamber — IEEE Bahrain Section — opened the presentations with thanks to the presenters, the attendees and the Council officers.

### Presentation 1: PALADIN

Intelligent Predictive Control of Today's Advanced Power Distribution Networks

Presenter Michael Reed holds a Master's degree in Naval Architecture and Marine Engineering from M.I.T., an Ocean Engineer degree from M.I.T., and is currently Director of Electromagnetics, General Atomics, USA.

This presentation threw light on Paladin, a first-of-a-kind technology for intelligent and predictive control of mission critical electrical power systems. Paladin delivers an intelligent umbrella of safety over any electrical distribution and transmission system for mission critical facilities and operations. It transforms

traditional power management software solutions from Supervisory Control and Data Acquisition (SCADA) to intelligent data collection integrated with diagnostics perspective.

### Presentation 2: On-Line, Real-Time Transient Simulation

Presenter Ali M. Nasle, P.E. obtained his MSEE from Wayne State University and BS from Michigan State University and is CEO of EDSA Micro Corporation.

This is a unique technology allowing one to build on line, PSS, AVR, GOVERNOR, Control Functions and then to test and apply the model in Real-Time for Motor Sequencing, Fast Bus Transfer, Fault Isolation Units. The benefits are to save time, increase accuracy, reduce cost, and increase reliability of the system.

## News

The Bahrain Section Officers election was completed successfully and the following members are elected with their positions:  
 Chairman — Dr. Isa Qamber  
 Vice Chairman — Dr. Jamal Hijris  
 Treasurer — Mr. Abd Ali Al-Wazeer  
 Secretary — Mr. C. J. Ravindradas

contributed by  
 Isa Qambar  
 iqambar@eng.uob.bh

## IEEE Benelux

### Eng Management Soc. Chapter Life Cycle Engineering. October 6, 2003

EMS Benelux members met at TU Eindhoven, assisted by IEEE Student Branch Eindhoven in cooperation with "KIVI-Bedrijfskunde".

KIVI is the professional body for graduates of the technical universities in the Netherlands, and "KIVI-Bedrijfskunde" is its Engineering Management Society.

We heard Tetsuo Tomiyama of Delft University of Technology from Mechanical Eng and Marine Technology make a presentation on Life Cycle Engineering, introducing a paradigm that goes beyond analyses and recycling. The second speaker Menno Nagel — also from Delft — gave recent findings on the environmental load from various types of equipment used in the telecommunication industries.

For the remainder of 2003, the following activities were planned:

- Visit to KPN's national operation & control center in Hilversum in November.
- Innovation & Start-ups, December 8 —with IEEE Computer Society Benelux at the TU Delft.

Members are invited to become part of the chapter management. The economic downturn means business priorities have changed, so the need to network increases.

All members are encouraged to enable their personal IEEE email alias; i.e., [firstname.lastname@ieee.org](mailto:firstname.lastname@ieee.org).

IEEE Benelux has its own website: [www.ieee.nl](http://www.ieee.nl) and [www.ieee.be](http://www.ieee.be).

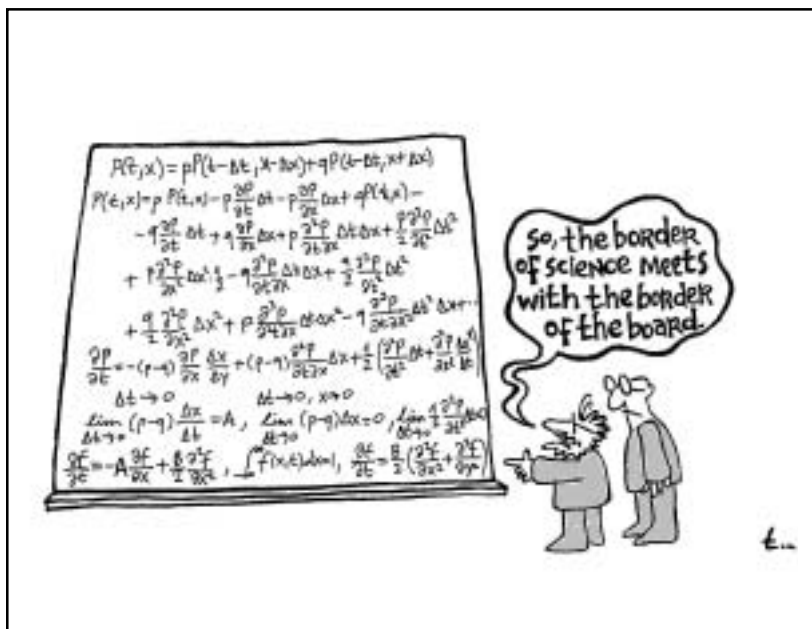
Contact us: [robert.bierwolf@ieee.org](mailto:robert.bierwolf@ieee.org) and [bart.r.meijer@ieee.org](mailto:bart.r.meijer@ieee.org)

## IEEE Germany Section

### IEEE Joint IAS/PELS/IES Chapter

#### Aachen Technical University and Philips Research Host Chapter Meeting

One hundred and twelve participants took part in our largest chapter meeting ever, held in conjunction with the Benelux Joint IAS/PELS/IES Chapter. Members and



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guests, including a distinguished lecturer and four IEEE officials came together in the historic capital of Europe, Aachen.

During the first day, we visited the labs of the Institute for Power Electronics and Electrical Drives, led by Prof. Dr. ir. Rik W. De Doncker, the founding chairman of our chapter. Current chairman Dr. Magyar donated a historical radio receiver on behalf of the chapter — a “Philips Aachen Super D52AU” manufactured in the institute building, a Philips production site. The following social meeting comprised a guided tour through the old city, ending in the university’s arched cellar where Philips had sponsored a party.



*Local chairman Dr Schiebel (left) and chapter chairman Dr. Magyar with the historic Philips battery charger*

At the Philips research laboratory next day, Dr. Magyar donated a Philips battery charger with a mercury vapour rectifier and iron-hydrogen current stabilizer tube from the 1920s and still functional today. Managing director Dr. R. G. Gossink introduced Philips Research Laboratory to the audience, followed by several technical lectures and demonstrations dealing with current research activities. The meeting closed with a distinguished lecture from Prof. P. G. Maranesi (IEEE Fellow, University of Milan/Italy) about Power Electronics for Space.

More detailed information about the chapter, recent and the upcoming meetings can be found at <http://www.ewh.ieee.org/r8/germany/ias-pels>.

*Dr. András Lelkes,  
PMDM Precision Motors  
Dr. Andreas Lindemann*

## **IEEE Greece Section**

### ***New Joint Chapter — Industry Applications, Power Electronics & Industrial Electronics***

*Stefanos Manias writes:*

I am a Professor at the National Technical University of Athens in the School of Electrical and Computer Engineering, and Chairman of the new joint Chapter IAS/PEL/IES formed 22 August 2003.

On 25 September 2002, IEEE Fellow Prof. Andreas Antoniou was honored by the National Technical University of Athens with the Degree of Emeritus for his work on Digital Signal Processing. Andreas studied Electrical Engineering at the University of London and his career in research and development began in the UK. He moved to Northern Electric in Canada, then became Professor and Chair in EE and Computer Engineering at Concordia University in Montreal. He was founding Chair at the University of Victoria, British Columbia, where he is now Professor.

*Best Regards  
Stefanos Manias  
manias@central.ntua.gr*

### ***Power Engineering Chapter***

*Costas Vournas writes:*

During 2003, three power conferences were organised successfully in Greece with the sponsorship of IEEE Greece Power Chapter: (1) ISAP 2003 — Lemnos Greece, Sept. 2003; (2) JapMed’03 May 19-21, — NTUA, Athens; and (3) UPEC 03, 1-3 September 2003 — Thessaloniki. Brief reviews of ISAP and UPEC follow.

*Best regards,  
Costas Vournas  
Chair, IEEE Greece Power Chapter*

### ***ISAP 2003***

ISAP 2003 was held to discuss innovative solutions in the area of operation, control, planning and maintenance. It focused on power systems operating in competitive environment, renewable energy and distributed generation. Competitive, Environment, Renewable Energy, Distributed Generation were the keywords for 102 papers which gave high level R&D and practices in 22 different countries. It

was a great success attracting more than 140 participants from Greece and abroad.

CD-ROM with the Proceedings of the Conference is available for 60 Euros plus. contact [isap03@power.ece.ntua.gr](mailto:isap03@power.ece.ntua.gr).

*by Prof. N. Hatzargyriou*

### ***UPEC 2003***

#### ***1-3 September 2003, Aristotle University, Thessaloniki***

The 38<sup>th</sup> International Universities Power Engineering Conference had a broad theme, covering all aspects of electrical power engineering, and was attended by academics, research workers, and members of the power service and manufacturing organizations. During the sessions, 185 papers from 32 countries were debated. A plenary session, 26 technical sessions, and a closing session were held, where all technical papers were presented orally in four groups of parallel sessions.

UPEC provides a forum for the exchange of ideas among practicing engineers from the universities, consultants, and in the manufacturing and supply industries.

The conference was hosted by the High Voltage Laboratory of the Department of Energy of the Faculty of Electrical and Computer Engineering at Aristotle University of Thessaloniki, Greece.

The thirty-ninth conference, UPEC 2004, is to be hosted by the University of West England, Bristol, UK — September 6-8, 2004. Contact Dr Hassan Nouri for information: [hassan.nouri@uwe.ac.uk](mailto:hassan.nouri@uwe.ac.uk).

*by Prof. T. Hammons*



*Prof. Andreas Antoniou was honored by the National Technical University of Athens with the Degree of Emeritus*

## IEEE Nigeria Section University of Ibadan (UI) IEEE Day Planned for 5 February 2004

Debo Onifade writes:

“The University of Ibadan was host to the Section Chair, Engr. Isaac Adekanye, who met with our departmental head, Dr. A. O. Olatubosun and with IEEE Student Branch counsellor, Engr. Niyi Khamil, and others on a proposed IEEE project. His visit was indeed a major boost to our plans.

The Section Chair also met with the SB chair, Adebowale Onifade; SB Mentor, Funso Adebayo; and SEEES (Society of Electrical Electronic Engineering Students, UI) President Atanda and discussed the forthcoming IEEE Day at the University of Ibadan on February 5, 2004. It was a great opportunity to discuss many issues with him because we hardly see him since Ibadan is so far from his base in Port Harcourt.

The IEEE Day is part of the SEEES week at the Technology Lecture Theatre, UI, starting February 5. The IEEE GOLD Chair in Nigeria is expected with other professionals to present technical papers on that day.

Enlightenment campaigns are already in action because we want to convince students to register or financially validate their membership of IEEE. Students from some other universities in Nigeria are expected for the event.”

*Happy New Year to you all!*

*Debo Onifade*

*SB Chair*

*debo@ieee.org*

## New Communication Society Chapter

### Calling!!!

The ComSoc Chapter of the IEEE Nigeria section was founded on May 29, 2003 with the approval of the IEEE Regional Activities Board.

The Chapter held its first meeting on the Saturday September 20, 2003 in conjunction with the Nigeria section meeting. ComSoc members in attendance now have the opportunity of benefiting from peers and IEEE resources. Members are invited to become part of the Chapter management, as we need to network with fellow practitioners. All members are cordially invited to submit their suggestions and/or to step forward to join the chapter management team and help us organise interesting events for our members.

Agenda: To set the chapter on course and fulfil the parent's body vision, members at the maiden meeting agreed on the five-point agenda for the first year:

- Set up Academic/ Industrial affiliations.
- Hold administrative and meetings at least twice in a year and technical meetings as often as possible.
- Encourage student members' participation in chapter, section, IEEE and IEEE ComSoc events at all levels.

- Follow up FUTO Owerri IT village project — A fall out of Harry Goldstein's (Associate Editor, IEEE Spectrum) visit to the section.
- Secure local participation of members in Communication projects sponsored by international organisations in Nigeria.

The chapter is currently developing its web pages to be included in the section's own site at [www.ieeenig.org/comsoc](http://www.ieeenig.org/comsoc).

You can also find our details at [www.comsoc.org](http://www.comsoc.org) in the chapter corner.

In the interim, the following volunteers are managing the chapter:

Ugochukwu Onukwu, Chair

*ugonukwu@ieee.org*

Julius Aguni, Vice Chair

*aguni@ieee.org*

Funso-Adebayo John, Secretary

*funso@ieee.org*

*Contributed by*

*Julius Aguni*

*Vice Chair, ComSoc Chapter*

*Secretary, Nigeria section*

## IEEE Romania Section Electrical Power Engineering Education in Romania

May 24-30, 2003 at University Politehnica, Bucharest and at National Power Grid Company Transelectrica SA, our section was honoured by the visit of IEEE distinguished lecturer Dr. Prabha Kundur.

At the first meeting, “Advanced Technologies in Power Systems — “FACTS and AI” — Dr. Kundur presented the opening lecture: “Sustainable Electric Power Systems in The 21<sup>st</sup> Century”. Twenty eight PhD students from England, Italy and Romania participated.

At a second occasion, Dr. Kundur was awarded the title of *Doctor Honoris Causa* by Univ. Politehnica Bucharest for significant contributions during a lifetime of dedication to the field of power system stability and control. About 85 attended the conference presented by Dr. Kundur, “Measures to Improve Power Systems in the New Electric Power Industry Environment”.



Another conference at Transelectrica SA was attended by 80 engineers: Sustainable power systems with non-pollutant sources of energy and dispersed generation structure could lead to increased safety of supply with decreased production cost. The challenges are to produce electricity greener, cheaper, at high quality and responsive to consumer needs.

*Mircea Eremia*

*Chair IEEE Romania PES Chapter*



## Switzerland Section

On September 26, 2003 at Salvan, Switzerland, IEEE Past President Ray Findlay and Swiss Section Chair Bettina Bauer presented the 2003 IEEE Eric E. Sumner Award to Werner Bux and Hans

R. Müller for contributions to the design, development and standardization of the token-ring local area network at the IBM Research Lab in Rüschlikon.

## Ukraine Section

### IDAACS 2003 — September 8-10, 2003, Lviv, Ukraine

The second international workshop — Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications — IDAACS 2003, <http://www.idaacs.ssf.net>, was held in the famous Ukrainian city of Lviv, September 8-10, 2003. It was organized by the Institute of Computer Information Technologies (ICIT) of Ternopil Academy of National Economy (TANE) in cooperation with Institute of Computer Technologies, Automation and Metrology (ICTAM), National University “Lviv Polytechnic”.

IDAACS’2003 was organized by young scientists and graduate students from ICIT, with many members of IEEE SB Ternopil Academy of National Economy.

IDAACS’2003 aim was to assemble

teams from different parts of the world, to find out about each other’s activities and research approaches and to enhance the prospects for future joint research collaboration.

Eighty scientists participated from 20 countries of Europe, North America and Asia. One hundred and eighteen papers were selected and published in IDAACS 2003 Proceedings.

Everybody enjoyed the cultural program, city excursions, visits to the local opera and to Olesko castle.

Topics included the following: new computer technologies in modern data acquisition; intelligent remote control; virtual instrumentation; AI networks for data acquisition; and robotics.

Note for your diary: IDAACS 2005 takes place in Bulgaria in early September next year.

Thanks to all of the members of IEEE Student Branch of Ternopil Academy of National Economy, to everyone who helped us to make this Workshop successful.

*Borys Kharchuk,*

*Chair of IEEE SB of Ternopil Academy of National Economy*

# Obituary

## Louis Stumpers, 1911-2003

Louis Stumpers, one of the most prominent members of the communications engineering community during the golden years of communications R&D, died on September 27, 2003 at the age of 92 years.

With his passing, the IEEE has lost a distinguished Fellow and volunteer. His active roles in the IEEE, ITU, URSI and CISPR contributed to important progress in international standardization and cooperation, for which we are all indebted.

Louis started his long scientific career as a research assistant at the Philips Research Laboratory in Eindhoven, the Netherlands, when he was 17 years old. After graduating with a degree in physics from Utrecht University in 1937, he returned to Philips, later became head of the Radio and Radar Departments, and until retirement in 1973 he was Scientific Advisor and a Director of Philips Research Laboratory. He received his PhD from Delft Technical University in 1946 on the basis of his analysis of FM noise.

His contributions included stereophonic FM and single-sideband broadcasting; threshold extension in FM and electromagnetic compatibility. His most famous contribution was on the theory of FM noise, where he established its energy spectrum for all signal-to-noise ratios.

For his work he received the IEEE Award in International Communication in 1978. He was elected to the Royal Netherlands Academy of Sciences and taught at three universities: Utrecht, Nijmegen, and Bochum.

He was a very active IEEE volunteer, serving from 1968 to 1971 as chairman of IEEE’s Benelux Section. He loved to attend conferences to meet and exchange ideas with his many friends and colleagues, and this international community was a very large part of his life.

Louis Stumpers was a quiet and reserved man. Yet he always stood ready to help people, in his organization and outside, not only when they had technical or mathematical problems but also when



they had personal troubles. There are many recollections of Louis bringing flowers and good wishes to colleagues and friends in hospital or at home. All the people he touched with his kindness remember these incidents with gratitude. I too am grateful for his scientific advice and constant encouragement.

*Hans Peek*  
*October 2003*

# REMINDER CALENDAR

## Workshops, Conferences and Symposia in Region 8

### First IEEE Conference in Syria!

#### ICTTA 04 — Int'l. Conference Information & Communication Technologies: From Theory To Application

April 19-23, 2004,  
Damascus, Syria

ICTTA 04 is the first IEEE conference to be held in Syria, aiming to stimulate academic research in the region, to initiate an IEEE Syrian chapter and to establish scientific cooperation actions and programs between Middle East institutions and European, Asian and American institutions.

<http://ICTTA.enst-bretagne.fr>

Contact: *Basel Solaiman,*  
*Basel.Solaiman@enst-bretagne.fr*

### MELECON 2004

#### The 12th IEEE Mediterranean Electrotechnical Conference

12-15 May 2004

Dubrovnik, Croatia

Sponsored by IEEE Region 8.

<http://www.melecon2004.org>

### Microwave and Radar Week

#### MIKON 2004 — 15th International Conference on Microwaves, Radar and Wireless Comms

#### IRS 2004 — 5th International Radar Symposium

#### EMFM 04 — Electromagnetic Fields and Materials

17-21 May 2004

Warszawa, Poland

IEEE AES and MTT Societies, AP/AES/  
MTT and ED Poland Chapters.

[www.pit.edu.pl/mikon-2004](http://www.pit.edu.pl/mikon-2004)

### MIPRO 2004

#### 27th International Convention MIPRO — Microelectronics, Hypermedia, Digital Economy

May 24-28, 2004

Opatija, Adriatic Coast, Croatia

Contact: *petar.biljanovic@fer.hr*

<http://www.mipro.hr/>

### WILGA2004

#### 13th Symposium on Photonics and WEB Engineering

May 26-30, 2004

Warsaw, Poland

IEEE Poland Section, IEEE Poland  
Section SPIE Chapter

<http://www.nms.ise.pw.edu.pl/wilga>

### IEEE SECTION CONFERENCE

June 8-10, 2004

State Electrotechnical University, Saint  
Petersburg, Russia

Contact: *Alexander Mikerov*

*a.mikerov@ieee.org*

### NORPIE 2004

#### Nordic Workshop on Power and Industrial Electronics

June 14-16, 2004

Trondheim, Norway

IEEE Region 8 Nordic Sections, IEEE  
PEL-Society

<http://www.elkraft.ntnu.no/norpie/>  
[index.html](#)

Contact: *Tore.Undeland@elkraft.ntnu.no*

### CHE2004

#### 2004 IEEE Conference on the History of Electronics

June 28-30, 2004

Bletchley Park, UK

IEEE Sponsor: IEEE History Center

[www.ieee.org/organizations/](http://www.ieee.org/organizations/history_center)  
[history\\_center](#)

### ICCCS'04

#### 2<sup>nd</sup> IEEE Int'l Conf. Circuits and Systems for Communications

June 30 – July 2, 2004

Moscow, Russia

Moscow Technical University of  
Communications and Informatics. Co-  
sponsored by IEEE Circuits and Systems  
Society.

<http://www.mtuci.ru/info.htm>

Contact: *Dmitriev, iccsc-04@eplire.ru*

### MEDSIP2004

#### Advances in Medical Signal Information Processing

September 5-8, 2004

Malta, G.C.

On the beautiful island of Malta, the  
jewel of the mediterranean, those  
attending will learn about latest  
techniques and visions of future for  
medical signal and information  
processing.

Co-sponsored by IEE, IEEE EMBS  
UKRI Chapter, the University of  
Southampton, the University of Malta  
and Aston University Biomedical  
Information Engineering Research  
Group.

Contact: *c.j.james@ieee.org*

[http://www.bierg.aston.ac.uk/](http://www.bierg.aston.ac.uk/medsip2004/)  
[medsip2004/](#)

### AFRICON 2004

September 15-17, 2004

Gaborone, Botswana

Sponsored by IEEE Region 8.

<http://www.eerc.up.ac.za/~ieee>

### IRMMW 2004

#### 29th International Conference on Infrared and Millimeter Waves

September 27-October 1, 2004

Karlsruhe, Germany

Co-sponsored by IEEE MTT Society;  
Information Technology Society (ITG) of  
the German VDE; and the Institute of  
High Frequency Techniques and  
Electronics, University of Karlsruhe.

[http://www.ihe.uni-karlsruhe.de/](http://www.ihe.uni-karlsruhe.de/irmmw2004/)  
[irmmw2004/](#)

### DIPED-20004

#### Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory

October 11-14, 2004

Tbilisi, Georgia.

Contacts: *Mykhaylo Andriychuk*  
*andr@iapmm.lviv.ua,* and *David D.*  
*Karkashadze, lae@access.sanet.ge*

## IEEE Denmark GOLD

### First meeting — November 3, 2003

“10 Success Factors in Project Management” was the theme of the first meeting of the IEEE Denmark GOLD affinity group. The meeting took place November 3, 2003 at the Institute for Mathematics at the Technical University of Denmark in Lyngby, close to Copenhagen.

The speaker was Margaretha Eriksson, R8 Membership Development Chair, as well as past Sweden Section Chair. She shared 25 years’ experience within Project Management in industry with us and made this meeting a very special event for the 26 participants. She got everyone interested in forthcoming meetings of the IEEE Denmark GOLD affinity group.

Networking during the breaks was accompanied by pizza and soft drinks.

Margaretha’s talk was well received, since the role of most engineers is that of technical expert who provides the technical knowledge to the project team. Today many engineers become Project Managers. Their technical knowledge is seen as a guarantee of achieving the goal set for the project. It is therefore important to know what is most important for success in a Project.

Participants’ statements:

- “Just wanted to thank you and the whole Danish IEEE section team for arranging yesterday’s workshop on project development. It was both professionally useful and socially pleasant, so thank you very much for that initiative indeed!”
- “Very interesting, dynamic and pedagogical speaker. Thanks a lot. Good service!”

*Christian Kloch*

*GOLD affinity Chair*

*E-mail: kloch@ieee.org*

## GOLD News Flash

IEEE GOLD Committee Chair Anoop Alazhathu announced: “We congratulate and thank the following IEEE members for their time in volunteering for the IEEE position of GOLD Affinity Group Chair!” In Region 8, the following members will receive a pin and congratulatory letter:

Hans Strack, *Germany Section*

Isaac Adeyemi Adekanye,

*Nigeria Section*

Oleg V. Stoukatch,

*Russia (Siberia) Section*

## Industry News

### Industry relations in Region 8

**T**he IEEE Strategic Planning Committee has made “the improvement of relations with industry” an important strategic issue for the years to come. Region 8 decided in June 2003 to develop the following actions:

- To confirm the Industry Relations Committee members: Margaretha Eriksson, Christian Borgert, Tariq Durrani, Rolf Remshardt, Jean-Gabriel Remy (chair). This committee already achieved much under the previous chairman Terje Gjengedal.

- To encourage sections to appoint Industry Relations Officers and ensure that their activities are followed up as far as possible.
- To identify the needs of industry for current and new IEEE products, services, benefits and opportunities.
- To propose vehicles for improving interaction between industry and the IEEE.

*Jean-Gabriel REMY*

*Region 8 Industry Relations Officer*

*jean-gabriel.remy@cegetel.fr*

## SURVEY — Region 8 News in Print, E-Mail or Web?

Starting with the August 2004 issue of R8News, only 12 pages of printed content will be available. This means the editor has to make some hard choices about what to continue to publish in print and what should eventually be e-mailed to R8 members, who agree in advance to receive it their e-mailbox.

If you care about receiving news about our IEEE Region 8, please answer following questions:

**1. Which content of the actual R8News would you like to absolutely keep in printed form?** Answer options: (a) None; (b) Some (please specify which); and (c) All.

**2. Are you interested in receiving R8 information that is time critical (schedule of conferences, call for papers, etc) by e-mail?** Answer options: (a) Yes (specify any favourite topic), or (b) No.

**3. Can you access R8News at [www.ieee.org/r8](http://www.ieee.org/r8) ?**

Answer options: (a) Yes, easy access; (b) Yes, difficult or costly; or (c) No access.

**4. Would you be willing to volunteer your opinion on R8 News content in a short telephone interview conducted by one of our members?** Answer options: (a) Yes, or (b) No.

Please e-mail your answers and any further comments to [R8NEWS@ieee.org](mailto:R8NEWS@ieee.org) with the subject: **Survey**, or post them to:

*The Editor, IEEE R8News*

*149 Gloucester Road*

*London SW7 4TH, United Kingdom*

Please give your name and membership grade, and indicate the e-mail or postal address where we can reach you. We shall keep this information strictly confidential and will not pass your e-mail or address to any third party outside R8 members.

Thanks for your cooperation, *The Editor*.

# Revolutionary Invention Wins Euro Electronics Industry Design Application Award

The Ultracane — a new electronic guide ‘cane’ that aims to provide revolutionary assistance to visually impaired people — won the *Design Application of the Year Award*. Sponsored by Sony, entries must demonstrate, “that they have made appropriate and imaginative use of electronic component, hardware or software system design to tackle the requirements of specific customer(s) application(s).”

The concept was developed in Sound Foresight Limited by a multidisciplinary team that included IEEE Senior Member Prof. Brian Hoyle, System engineering; Dr. Dean Waters, Biologist; and Prof Deborah Withington, Biomedical Scientist in human spatial perception.

## How it Works

Bats are the undisputed leaders in getting around in the world in the dark. The bat builds a ‘spatial map’ of its surroundings using its ultrasound-based sensory capability. The Ultracane was inspired by their example and employs multiple ultrasonic transducers to realise ‘echolocation’ as used by bats to detect and avoid objects in their flight path. Its ultrasonic transducers view the space ahead, above, and to each side of the user.

The Ultracane aims to give the vision impaired user a similar mental picture of their surroundings, enhancing their ability to navigate in the world. Range and direction information is implicitly used in the human brain to form a spatial map.

Previous inventions offered such information via audible signals, typically with headphones. But ultrasound echo information (through frequency shifting) is unacceptable because it denies ‘hearing’ sense for general use. For those having impaired hearing, as well as poor vision, that approach is not practicable.



*Ultracane showing tactors in handle and transducers, (also in the handle assembly on final model).*

The use of a ‘cane’ allows its user to explore the world through an extended sense of ‘touch’.

The human hand is one of the richest parts of the body in terms of tactile sensitivity. A device that sends hazard information from the ultrasound transducers to the fingers and palm therefore offers efficient perception for the brain. Thus a dangerous object generates a tactile signal and lets the user respond. Side-view signals let the user maintain a constant distance from walls.

These principles — a sensory mechanism coupled with tactile feedback — inform human perception and motor systems. They create in the user’s brain a spatial map of their surroundings, offering increased mobility and independence.

## Development Leads to Market

Early development of the system concept was begun in the School of Electronic and Electrical Engineering at the University of

Leeds. Prototypes were tested with blind users in Europe and the USA. Sound Foresight has since optimised the design in partnership with Cambridge Consultants, Quinetiq and Minima Design. The product is being manufactured and will be marketed in 2004.

Andrew Diston, Associate Director of Cambridge Consultants commented: “This is a product that we are very proud of. The cane uses very advanced technology, but the user doesn’t need to have any technical knowledge whatsoever — the cane becomes second nature with very little practice.”

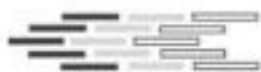
Sound Foresight Limited was founded in 1998 as a result of informal contacts



*Prof Hoyle with the Design Application of the Year Award*

between researchers within the University of Leeds who had an interest in electronics, biology, and ultrasound. Product potential was supported by the UK government’s Department of Trade and Industry with a Smart Feasibility Award.

Visit <http://www.ultracane.com> to read interesting comments by people who used the ultracane in trial tests, and case studies. For more information contact: Brian Hoyle on telephone +44 (0)113 343 2056, [b.s.hoyle@leeds.ac.uk](mailto:b.s.hoyle@leeds.ac.uk).



MELECON 2004

May 12 -15, Dubrovnik, Croatia



**IEEE** Region 8  
Croatia Section

<http://www.melecon2004.org>

### MELECON 2004 SECRETARIAT:

#### MELECON 2004

University of Zagreb

Faculty of Electrical Engineering and Computing  
Unska 3, 10000 Zagreb, CROATIA

Phone: +385-1-6129-938

Fax: +385-1-6129-652

e-mail: [melecon@melecon2004.org](mailto:melecon@melecon2004.org)

## AFRICON 2004

*africon*



**2004**

15 - 17 September 2004

Gaborone, Botswana

<http://eerc.up.ac.za/~ieee/>



Conference Chair: Prof GP Hancke,  
Department of Electrical, Electronic and  
Computer Engineering, University of  
Pretoria, Pretoria 0002, South Africa  
Tel +27 (0)12 420 3736  
[gerhard.hancke@eng.up.ac.za](mailto:gerhard.hancke@eng.up.ac.za)

Region 8's AFRICON 2004 will be in Gaborone, the capital of Botswana, from 15-17 September 2004, at the Grand Palms Hotel and Conference Centre.

Organized by IEEE South African (SA) Section, SA Institute of Electrical Engineers, SA National Research Foundation, University of Botswana and Botswana Institute of Engineers (BIE).

#### Industry sponsorship and marketing

Companies that are interested in marketing their products at the conference please contact:

Albert Helberg [eeiasjh@puk.ac.za](mailto:eeiasjh@puk.ac.za)

Shedden Masupe (Botswana) [masupes@info.bw](mailto:masupes@info.bw)

**Student Representative:** Basak Yuksel ([basak@ieee.org](mailto:basak@ieee.org)) **Send news to e-mail address:** [R8StudentNews@ieee.org](mailto:R8StudentNews@ieee.org)  
Web site: <http://www.ieee.org/r8sac>

**Hi!**

Hi! Happy New Year! We can look back on an exciting 2003 — read these pages. From some student branches we heard no news at all. Tell me what is going on in your SB! E-mail [r8studentnews@ieee.org](mailto:r8studentnews@ieee.org).



On 11-12 October 2003, the Region 8 Committee met in Zagreb, Croatia. Our student activities were an important part of the discussion. I had a chance to talk to section chairs from different countries about the student branches in their section. It's really important to increase the interaction between student branches and sections. Most sections have Student Activities Officer (SAO) who is the bridge between student branches and sections. If you don't know yours, please ask for your SAO.

Remember the big event — take your seat at the Student Branch Congress 4th-7th September 2004 in Passau, Germany.

**R8 Student Forum** is open to all R8 Students. Check the open discussions and chat regularly with SAC team leaders. For dates go to: [www.ieee.comunities.org/region8sf](http://www.ieee.comunities.org/region8sf).

Please check the R8 SAC web page for student branch funding, ideas, and advantages: [www.ieee.org/r8sac](http://www.ieee.org/r8sac)

Send me feedback about student news pages and include all your announcements, activities and anything you want to share with IEEE student members. email: [R8StudentNews@ieee.org](mailto:R8StudentNews@ieee.org)

*All the best,*

*Basak Yuksel*

*Regional Student Representative*

*[basak@ieee.org](mailto:basak@ieee.org)*

## Message from R8 Student Activities Chair

Hi all! My first year went quickly. I enjoyed every second of it!

Please visit the R8 SAC web page to discover our ongoing programs and initiatives. I hope that you participate and trust that the information is helpful.



The Student Branch Congress — our most important Student event — will take place in Passau, Germany at the beginning of September. Don't miss this chance of networking with Student Branch leaders from throughout our vast region, networking with IEEE leaders, with GOLD members and other colleagues and to have fun. Read the announcement below, and take a look at: <http://www.ieee.org/sbc2004>.

Passau will be a great venue. Thank you to the organizers for their extraordinary efforts and organizational capability. I visited there last September and it was a pleasure meeting everyone. Thanks also to the Region 8 Committee which strongly supports

this event in every sense especially financial!

Being an IEEE volunteer is a joy. Don't miss the chance to try it and contact your local Student Branch or us for more information and opportunities. Let me hear from you at [pimolina@ieee.org](mailto:pimolina@ieee.org).

*Regards,*

*Pilar Molina Gaudó*

*R8 SAC*

## Alexandria University

### IEEE Student Branch News, Alexandria, Egypt

Alexandria University Student Branch is proud to tell everyone about our activities of the past year.

#### 1st Neuro Linguistic Programming workshop

A 3 day workshop "Neuro Linguistic Programming (NLP)". We got four companies to sponsor this event: El-Wasit, New Horizons, X-Lab & Unilever El-Mshreq. The NLP programs broaden your horizon towards a dramatic, fast accountable change in your life. "Be the leader of your field." Many thanks to Eng. Quis Badran.

#### 1st Microcontroller Workshop

A 3 day workshop about microcontrollers, functions, comparison to microprocessors, which was sponsored by *H-Logic B*.



*Attendees of 1<sup>st</sup> Microcontroller Workshop*

#### Study Groups

Many topics: robotics, communication, web design, graphics, microcontrollers, C-programming language, Matlab software, etc. Students learned to help each other study what they need. We now have people in our SB who are able to do anything the SB needs, from design to... *everything*. The most important outcome is that our SB members got a chance to know each other well.

#### Technical Tours

Tours to several factories in Egypt; eg, the factory of ABB, which manufactures high tension products. A tour to BAHGAT'S factory for PCP board components in televisions and refrigerators; ...to a power station called Sidi Kerir; ...to the Egyptian Cyber Center, the largest system for data networks and backup in Egypt; ...and a tour to the control center of the Nile Sat Satellite ground control.



### Non-technical skill workshop

We recognized that engineers don't have a broad outlook of the market — they invent but they don't know how to sell. So we thought that if they could learn this skill, it would be great and help them a lot in their life. During a 2-day workshop, we heard professionals from Egypt, Canada and India tell us about their experience. Those attending were divided into groups, each required to make a product and make a presentation for it.

Other interesting events included seminars at Bibliotheca Alexandrina and

*The media team in  
NLP Seminar*



another on Microsoft Certification.

That's all for now and hope to hear from other student branches soon...

*Ramy Ibrahim Omar*

*Secretary, IEEE Alexandria University  
SB, Egypt*

*Tel: +2 0124336813*

*E-mail: R.I.Omar@ieee.org*

## "Tomorrow's Region 8"



### **Call for participation Student Branch & GOLD Congress:**

2004! Time for another get-together of students and GOLD members from the whole of Region 8.

Region 8 and the organizing Student Branch of the University of Passau, Germany, call for your participation in the Student Branch and Gold Congress from 4-7th September 2004 in

Passau. Our theme: "Tomorrow's Region 8".

Michael Glögl, chairman of the local branch, explains the motto: "The potential of IEEE and Region 8 are the students, who are working in their branches right now. By meeting each other, discussing a set of important topics as well as improving our skills we together form the region's future of tomorrow. Be prepared for interesting discussions, encouraging workshops and

a lot of fun." Michael's team has already been working hard for months and the plans are quite promising:

The first day includes a cultural event where everyone introduces their country and gets to know each other.

Speeches and Workshops are going to fill the second day. In the evening we will be welcomed by the Mayor of the City of



*The local organisation team of the SB Passau*



*View of the old town of Passau*

Passau. For hundreds of years the historical City of Passau was ranked one of the most beautiful cities in whole of Europe. Come and see it.

The third day will include a discussion of Workshop results and a time to discover the environs of Passau — it will bring us the SBC BBQ-Party and, later on, the SBC BBQ-Disco. The last day will tell you all about IEEE's educational program and keynote guest speakers. A closing ceremony will finish the congress.

Find further information and the facility to register for the congress under: [www.ieee.org/sbcgold2004](http://www.ieee.org/sbcgold2004).

## Revolutionary Displays

### IEEE Eindhoven Student Branch, Eindhoven, Netherlands

#### *“The Future of View, A View of the Future”*

On April 8<sup>th</sup> 2003, IEEE Student Branch Eindhoven (IEEE SBE) organised another Symposium, as we do every year. We are volunteer electrical engineering students of the Technical University of Eindhoven, who are supported by a member of last year’s committee.

When the four of us first got together as the organising committee, we could never have imagined the organisational dimension such an event takes. We had our first meeting sometime in September 2002 when we split up the tasks. Charlotte Rutgers became our Chairlady, Paul Booij became the secretary, Robert Pape was destined to be the treasurer and Erwin Vos

topic which seemed the perfect subject for our Symposium. Looking back upon the organisational process, this phase was the only one that went promptly. Fortunately, we were able to find sponsoring companies and subsidies from the University and IEEE-related branches and organisations.

Reviewing the Symposium, we consider it was successful. The director of IEEE Region 8, Tony Davies, was very willing to catch a plane to the Netherlands to present awards to Marco Dominicus and Engy Foda. Marco had been an active IEEE member for years and deserved his prize for his dedication and contribution. Engy, who flew over from her home in Egypt, had been a leading organiser of a big successful IEEE-congress in Cairo. Our visitors were pleased by the program, as well as lunch and refreshment afterwards.

The committee gained a lot from organising this Symposium. Now we know

## Student Paper Contest 2003

Here are the results of the IEEE Region 8 Student Paper Contest 2003 (see also the SPC-devoted webpage: <http://www.sps.ele.tue.nl/members/m.j.bastiaans/spc>):

### **1st prize — \$800**

Ulrich Stein and Marwan Younis (Universitaet Karlsruhe, Germany): *“Suppression of range ambiguities in synthetic aperture radar systems”*.

### **2nd prize — \$500**

Els Kok (Universiteit Twente, Enschede, Netherlands): *“Completely multimode arrayed waveguide grating-based wavelength demultiplexer”*.

### **3rd prize — \$200**

Noha A. El-Yamany (Alexandria University, Egypt): *“A new fuzzy gradient-adaptive lossy predictive coding system for still image compression”*.

At the Awards ceremony, SPC 2003, Anthony Davies, IEEE Region 8 Director, said: “Congratulations to everyone who participated — the papers were all of a high standard, the presentations were of good quality and well prepared, and it was not easy for the judges to make their selection of the best.”

quick. Being fellow students, friends and two of them even fellow room-mates, resulted in fast distribution of information. We have enjoyed arranging the Symposium very much and we are very pleased with the result.

*Paul Booij  
Eindhoven Student Branch*



*Group photo with Anthony Davies and Martin J. Bastiaans*

was recruited as PR agent. Alexander Bosman, from last year’s organising committee, guided us with all his experience and sympathy.

After the tasks were distributed, a subject had to be chosen. Charlotte came up with “displays”, a dynamic and current

that nothing ever goes exactly as planned and we learned how to deal with that. It is very hard to arrange an event like this with just four people. Luckily, Alexander helped us when we were short on time.

However, the advantage of being a small group is that communication is

## Student News Calendar of Events

- **Student Branch Congress 2004 SBC’04, Passau/ Germany**

4-7 September 2004 (Sign-up now! before 30 April for funding)  
Information and deadlines, click: [www.ieee.org/sbc2004](http://www.ieee.org/sbc2004)

- **IEEE Student History Paper Competition**

The conference will take place from 28 - 30 June 2004 at Bletchley Park, 50 miles northwest of London. The papers

will be judged by the Conference Program Committee after the presentations at the IEEE 2004 Conference on the History of Electronics. See details [www.ieee.org](http://www.ieee.org) — search CHE2004. Your chance to compete against nine Region winners — *all expenses paid*.

- **Women in Engineering Committee** is forming Student Branch Affinity Group Chapters: [www.ieee.org/women](http://www.ieee.org/women)

## Spain Section

### **CNR2003 National Branch Congress, Castilla la Mancha, Spain**

Last September, Spain Section celebrated its fifth National Branch Congress, also known as **CNR2003**. The Student Branch of the University of Castilla la Mancha organized the event that took place in the beautiful town of Almagro.

Thirty people attended from most of the IEEE Student Branches in Spain. The atmosphere was great and the outcomes from the congress were plentiful. The momentum for all the Spanish Student Branches can be seen in this edition of the R8 Student News.

Sessions began with Pilar Molina Gaudo, IEEE R8 Student Activities Chair and IEEE Women in Engineering Committee member. She explained the IEEE internal procedures, organization, and the advantages to the students of different universities.

The key word is *Networking*, that is, how we can work together in groups regardless of distance between us. Pilar outlined IEEE Student Activities awards for students: student paper contest, student branch awards, branch counselor awards, etc., as well as economic assistance for traveling, congresses and activities.

Later we showed our different branch activities. The most interesting one was a demonstration of little robots in all their fields: trace, combat, “robocode”, etc.

Other ideas for activities were symposiums such as NeoCom or Imaginática, social activities in the Engineers College, student parties, films, programming contests (local level), chess contests (Region8 level).

Most universities support the creation of student branches. We observed a decline in the number of associations, due to the increase of member dues and to the lack of educational foresight.

The outcomes of the Congress were:

- To implement the JAMES Web groupware environment, sharing groups contacts and information. JAMES is an application developed by Sevilla Student Branch members, and the UCLM Student Branch will contribute to its development.
- To create a “Web-ring”. This will give easy access to other branches’ Web sites, and improve Web data.
- To collaborate in seminars: robotics, LaTeX, etc.

Read our full report in English with many pictures at: [http://arco.inf-cr.uclm.es/ieeesb/index\\_en.html](http://arco.inf-cr.uclm.es/ieeesb/index_en.html).

## University of Seville

### **IEEE Student Branch, Fourth SEIIS Seminar**

#### **Entertainment Technology at the University of Seville, Seville, Spain**

From 4<sup>th</sup> to 7<sup>th</sup> November 2003, the ETS Ingeniería Informática of the University of Seville held the fourth edition of the SEIIS Seminar. This edition was focused on Entertainment Technologies and Videogames development.

As in previous years, hundreds of enthusiastic participants attended several conferences and workshops, covering different aspects of gaming-related technologies, such as graphics advances in games, games for mobile devices, business aspects of the videogame industry or artificial intelligence techniques in games.

Some of the best professionals in the field were invited to talk about these subjects: Jose Manuel Estrada, Java Evangelist from Sun Microsystems; Gonzo Suárez, project manager of the best-seller games *Commandos I* and *II* from Pyro Studios; Daniel Sánchez, director of the Master in Videogames academic program at the Pompeu-Fabra University; and Victor Ruiz, a leading developer of the KDE Project in Spain.

The SUGUS Association and the University of Seville SB are proud to invite any IEEE member who wishes to spend some time learning the state of the art in the fascinating world of digital entertainment, to our future seminars.

For further details, please visit: <http://sugus.eii.us.es/seiis>



*Spanish Student Branch leaders came together to share ideas in Ciudad Real*

## Microsoft contributes to IEEE R8 Student Fund

Last December, Region 8 Student Activities Chair Pilar Molina met with Microsoft Corporation's representative for Europe, Middle East and Africa, Wali Nasir. There was an exchange of ideas on support for IEEE student activities.

Microsoft offered a sponsorship of 1,000 Euros to the IEEE Region 8 Student Activities general fund in support of IEEE Region 8 Student Branch Congress (Passau, 4-7 Sept 2004). We thought you would like to know about the following Microsoft initiatives which may be of interest to students.

- Microsoft Developer Network Academic Alliance (MSDNAA), a community site with references to academic materials and resources. Membership of MSDNAA gives teachers and students licenses for Microsoft software development tools, software, etc. More information at [www.msdnaa.net](http://www.msdnaa.net).

- Microsoft's Imagine Cup challenge is a competition in four categories: (1) application development; (2) creation of an animation or (3) a short film; or (4) solve an algorithm puzzle. Check the details carefully at [www.imaginecup.com](http://www.imaginecup.com).

- Microsoft's [www.theSpoke.net](http://www.theSpoke.net) is an online community for students to share their digital lifestyle through blogs, message boards, and uploads.

We hope that you will look at these offerings. This does not imply any endorsement by IEEE of any Microsoft products or any suggestion by IEEE that they are better for any purpose than the products of any competing supplier.

Read the Conditions for Use of the sites/competitions/programs before giving personal info. The sites have not been assessed for compliance with IEEE policies on Security and Privacy.

*Ricardo Varela & Pilar Molina Gaudo  
R8 Student Activities*

The event took place at the Faculty of Organizational Sciences (FON) in Belgrade. The participants included FON students and other Chapter members from major cities: Nis, Novi Sad, Banja Luka, etc. The session was opened with a lecture by Prof. Veljko Milutinovic (IEEE Fellow), called the "Semantic Web". The chapter's board then discussed past and future activities of the Yugoslavia Section, which includes not only Serbia and Montenegro but Bosnia and Hercegovina as well.

Former Chapter Chair, Prof. Mile Stojcev (Electronics Faculty, Nis), said the Chapter had nearly 100 members, mostly in Serbia. Prof. Ninoslav Stojadinovic, Chair of the Section, reported that the Section had almost 550 members and suggested more effort is needed to motivate newcomers to join. Nearly half the membership are students, which is fine — but there's a shortage of working engineers.

Finally, new Board members were appointed. YU Computer Chapter will be led by Prof. Bozidar Radenkovic (FON, Belgrade) as chair and Prof. Dusan Malbaski (FTN, Novi Sad) as vice-chair. As a student member, I was also appointed to the board as Student Representative.

The main initiative discussed at the meeting, was how to co-sponsor an ICT event in the country and if possible, an international event like Eurocon. That task shouldn't be so hard because at least two members of the new Board had conducted one of the most famous domestic conferences, "YUINFO" (every March at Kopaonik mountain). We also need to support an ICT-related magazine in order to spread Chapter's activities.

*Best regards,  
Miroslav "Misko" Skoricevic  
skoricevic@uns.ns.ac.yu  
Novi Sad, Serbia*

## Anadolu University IEEE Student Branch News, Eskisehir, Turkey

Hello from Anadolu University Student Branch. We had many activities in 2003:

- IEEE SB Orientation: A program introducing us to the students of Anadolu University succeeded with

## Universidad Complutense de Madrid

### IEEE Student Branch News, Madrid, Spain

In May '03, IEEE SB at Universidad Complutense de Madrid organised — in collaboration with several local university computer clubs and two ACM Chapters in Madrid — the first local University Computer Programming Contest (CUPCAM) which took place at Universidad Rey Juan Carlos.

The idea of this contest, based on ACM Programming, is to promote computer science among local students and to give students the opportunity to compete in a high level programming environment.

In the first edition of CUPCAM, groups of three students from six public universities in Madrid, in total 90 students participated. Apart from this large number of students, there were a board of experts from those six universities to create the problem set and with the sponsorship of universities, professional associations, international foundations and companies. Second edition of CUPCAM is going to

be arranged at Universidad Autónoma de Madrid. More information is available at <http://www.fdi.ucm.es/cupcam>.

*Adolfo Vázquez*

*Universidad Complutense de Madrid  
Student Branch*



*The winning team of  
CUPCAM '03 brainstorming*

## Yugoslavia IEEE Student Branch

*Novi Sad, Serbia*

I'm a student member in Yugoslavia Section and I participated the annual meeting of Yugoslavia Computer Chapter.

many new memberships.

- TUBITAK & CeBIT EURASIA: We attended the Tubitak-Vision 2003 Congress and had discussions with new technology leaders. And after that, we joined CeBIT Eurasia Fair, and saw newest technologies and devices.
- C Programming Course: We initiated a new program to teach the popular programming language, C.
- Gokcekaya Dam & TOFAS Trips: We organized two main trips to Gokcekaya Dam and TOFAS (Turkey's biggest car factory). We saw the applications of electrical and electronics engineering in the car industry.
- Seminars: We wanted to build a bridge between students and teachers, engineers in industry. Seminar subjects were robotics, project management, electronics engineering in the industry, technological design.
- Tennis tournament: We also organized a table tennis tourney in the engineering faculty.
- New Office: We want to reorganize our office such that it will accommodate new projects and technical applications of electronics engineering.

*Contact:*

*ieeesb@mmf.mm.anadolu.edu.tr*  
*http://mmf.mm.anadolu.edu.tr/ieee/index.html*

*Mustafa Yuceer*  
*Chair, IEEE Anadolu University SB*  
*myuceer@anadolu.edu.tr*

## **BTI IEEE Student Branch** **Biysk, Altay Region, Russia**

Greetings to all from Biysk! For us 2003 was successful! New members joined and brought great benefits to the branch and to themselves.

During 2003 our students published 16 papers in IEEE conferences. Two BTI students received diplomas for the best reports at conference EDM 2003.

In June, our students participated in the exhibition EXPO-Science 2003. All four participants received diplomas and medals for their exhibits, which were marked by an international jury.

Our students participated in the All-Russia competition for the best information

educational project "Computers World Wide 2003". We scored in the top ten best projects from more than 100 competitors. We also participated in the IEEE Region 8 Student Paper contest.

I believe that our students have significantly increased their scholarship due to membership in the IEEE. Congratulations to the chairman of IEEE SB at BTI, Evgeniy Povernov, for his leadership.

*Eugene V. Sypin,*  
*IEEE Student Branch Counselor.*  
*E-mail: eugene.sypin@ieee.org*

## **METU Student Branch News** **Ankara, Turkey**

Hello from IEEE METU Student Branch! The first semester of the year was a productive period for us. One of the most important events was participation in the TIME FAIR 2003, Turkey International Productive Technologies Fair. The fair was held between 25<sup>th</sup>-28<sup>th</sup> September 2003, at CNR EXPO in Istanbul, Turkey. The purpose of the fair was to integrate sectors producing machines and technology with professional investors. The main subject that interested us was university-industry collaboration.

IEEE METU SB, had a stand in the fair area. As expected many companies were interested in our student branch. Our branch became a point of great interest after visitors watched our METU Electrical and Electronics Project Fair 2003 video. Also, our Robot Sumo aroused much interest. We participated in the seminars

related to the university projects and their integration with industry.

This experience was a great honour for us. We had the chance to attend such a huge event visited by 30.000 local and foreign visitors in just 3 days.

Beside TIME FAIR 2003, we had other activities such as, Initial Meeting of 2003-2004 Term, Microsoft Networking Seminar, Workbench Seminar, C++ and Graphical Programming Courses, Movie Shows and Bowling Tournaments.

## **ITU IEEE Student Branch** **Istanbul, Turkey**

In the ten years since 1992, IEEE Istanbul Technical University (ITU) Student Branch has organized many activities for engineering students. In 2003-2004, we decided to start with a new constitution. A new mission and vision were developed.

Our mission is to help members and contacts, equipped with leadership ability and socially confident, while they share knowledge with others. An association to help others develop by sharing our experiences and knowledge with them. Our VISION is to be a pioneer club of the world that creates leaders.

According to our new charter, our committees are "Laboratory Committee", "IT Committee", "Social Activities Committee", "Membership Committee" and "Career and Technical Activities Committee". Also, our coordinators are in communication, education, self-development, website, student chapter,

## **Letter From Zagreb, Croatia**

***True Devotion — 81<sup>st</sup> IEEE Region 8 Committee Meeting in Zagreb, Croatia, 11-12 October 2003.***

Dynamic, interesting, focused, well organized and meaningful. I felt the true devotion of all the participants at the meeting. There were IEEE members from Iceland to South Africa, from Spain to Saudi Arabia. We learned new Region 8 facts and about previous activities, led active discussions on improving the work of the IEEE in Region 8, identified paths for making IEEE Region 8 more responsive to challenges, how to help young engineers to develop themselves,

how to connect with industry and more.

For me it was helpful to understand better how all this works and it was very enjoyable learning about engineers in other countries, their professional challenges and ideas. It was tremendous work with visible results. We should all learn from this example and try to contribute to IEEE as much as possible, on local and regional level.

*Leid Zejnilovic*  
*IEEE Sarajevo, Bosnia & Herzegovina*

magazine and advertisement. We have an office and a separate design laboratory in our faculty. Istanbul Technical University Rectore donated \$5000 for our laboratory. Some of our activities in 2003:

- 24-26th April 2003, we organized “Smart Houses 2003” with Siemens as a main sponsor. Introduced by our Rector, Gulsun Saglamer, companies and academics worked together to showcase new building technologies, wiring for power, data and signalling with seminars, exhibits, a project contest, etc.
- Beginning Leadership Project Lecture: The first step of self-development by the owner of Rona Consultancy Co., Ms. Lale Rona.
- Lectures by Laboratory Committee and the IT Committee were highly popular, including a Computer and Data Security Seminar.
- Career and Technical Activities Committee: About 100 students attended ARI Teknopark (Science Park) Seminar.
- Memduh Karakullukcu presented a project with the goal of uniting university, industry and youth.
- “Education Abroad” Seminar: with Yalcin Sert, editor of a Web site with that name.
- Social Activities Committee — “Bruce All Mighty” movie; uniting dinner; bowling; bring ‘n’ play; football tournament; theatre (Lukus Hayat);

“Turkey-Latvia” UEFA Europe Cup play-off.

- Egg drop contest — a contest to design a mechanism for an egg that can keep the egg whole falling down from about 4 meter height. It was an interesting and enjoyable contest by Radyo 99, a local radio station. Our Dean Prof. Muhittin Gokmen and branch counsellor Assoc. Prof. Sema Oktug also attended as jury.

Please check our web site for more information about our activities: <http://www.ieee.itu.edu.tr>

### **Islamic University of Gaza IEEE Student Branch News, Palestine**

We organized varied, interesting, scientific activities, which many (especially Computer and communication) students told us were positive benefits.

Technical workshops: Matlab 6.1 by Eng. Ismael Elwheidy and Flash 6 MX by Mohammed ElMadhoun; Technical awareness conference sponsored by Engineering Faculty; Public lectures coordinated with Public Relations in IUG.

Lectures involved topics such as Wireless Communication by Eng. Salama Ekki; Data Mining by Eng. Said Salim; GSM System Configuration by Eng. Hassan El-Hendy and GSM Network Design by Eng. Bassam El-Odainy and Eng. Salman El-Rash.

We also organized summer courses

including Programming in JAVA Language, PCB Design, Web Design by Dreamweaver & ASP and Computer Maintenance.

### **Czechoslovak Section Student Branch Congress, Czech Republic**

The Czechoslovak Sectional Student Branch Congress was held 8-11 October 2003 in the attractive countryside of the Bohemian and Moravian Highlands. The main organizer was IEEE Student Branch of Brno. Co-organizers were Brno University of Technology, Czech Technical University in Prague and the Academy of Sciences of the Czech Republic. The Congress was financially supported by IEEE Region 8 Student Activities Committee and Czechoslovak IEEE Section. Sponsors included S.O.S Electronic, spol. s.r.o.

The primary aim of the conference was to gather together professionals from the whole range of electronics and electrotechnology and to provide an environment for networking and sharing their experience.

Electrotechnology and electronics are quite dynamic technical disciplines; it is impossible for one person to comprehend them and one should specialize. When engineers deal with a problem, it is often necessary to divide it into branches. Facing an interdisciplinary problem, it is useful to study unknown dilemma or to ask



*IEEE Istanbul Technical University Student Branch group power*

someone for help. It is a success if you know some specialist personally.

Likewise a design in one branch could be used in another one, which may seem very distant. There are not many opportunities how to meet specialists from other branches. Conferences are usually one-track so that they do not provide such opportunities.

Our Congress of specialists from various electrotechnical branches, named **RADESIN 2003**, encouraged not only professional contacts but also social relationships. Four days in October were filled with invited lectures, social activities and contributions of individuals (mostly postgraduate students). Seventy nine participants registered for the congress.

Contributions were at a standard conference level. They were devoted not only to the major problems investigated within the author's profession but also to the author's personal activities and hobbies.

This concept, apparently extraneous for conference contributions, created good conditions for building relationships. A friendly atmosphere was achieved. Listeners' reactions were active and very positive. The discussion was not limited to the time of presentations. Participants went on in their discussions till late in the night.

During the congress, everything went smoothly except the weather. Participants left the congress satisfied and often asked about the date of the next year's conference.

*Bohdan Ruzicka  
ruzicka@isibrno.cz*

## ENST IEEE Student Branch Bretagne, France New Student Branch

On the initiative of Ramesh Pyndiah, Head of the Signals and Communications Department, Eric Hardouin, PhD student, and several of his colleagues started a new IEEE student branch at ENST Bretagne ([www.enst-bretagne.fr](http://www.enst-bretagne.fr)). Over 130 PhD students contribute to research at ENST

Bretagne in ten research departments. Scientific activities include fields such as signals, image & information processing, electronics, computing and networking, microwaves and optics. Our aims are to forge links between our members and other students worldwide and to help them benefit from the exceptional opportunities offered by IEEE to young graduate students.

If you are interested in collaborating with us, do not hesitate to contact us at: [ieebranch@enst-bretagne.fr](mailto:ieebranch@enst-bretagne.fr).

*Benayad Nsiri & Gwenael Guillard,  
ENST Bretagne Student Branch  
Chairman and Secretary,  
[benayad.nsiri@ieee.org](mailto:benayad.nsiri@ieee.org),  
[g.guillard@ieee.org](mailto:g.guillard@ieee.org)*



*Members of ENST Bretagne IEEE SB: Rong Zhou (Treasurer), Humberto Bracamontes Del Toro, Gwenael Guillard (Secretary), Benayad Nsiri (Chair), Laura Conde, Eric Hardouin and Emeric Maury (Vice-Chair)*

## Looking Forward

### EMU Computer Society Student Branch Chapter, Northern Cyprus

It is my pleasure to present the fall 2003 issue of IEEE Computer Society's online student magazine "Looking Forward". <http://www.computer.org/students/looking/index.htm>

This e-zine is entirely produced by students. Each semester the responsibility for the next issue moves to another IEEE Computer Society student group. This issue was prepared by the members of IEEE Computer Society Student Branch Chapter at Eastern Mediterranean University.

Our theme is Computational Intelligence, one of the most popular in computer science nowadays. Computers are good at numerical data processing, but that is not enough to solve many real world problems in science, engineering and others. They need some kind of human intervention

to be solved adequately. Computational Intelligence combines the human-like approach with computers' data processing.

The articles reflect current research at our university and within the Research on Evolutionary Algorithms Group (REAL). Our articles are on evolutionary

computation, neural networks, and fuzzy systems (mainstream methods of Computational Intelligence) as well as ant colony optimization; used on some of the most interesting problems of computer science, such as, face recognition, wall following robot problems, and network performance measurement.

For further details of the magazine, click the web address. <http://www.computer.org/students/looking>

If your IEEE Computer Society student chapter is interested in hosting a future issue of **Looking Forward**, please contact Ken Christensen [christen@csee.usf.edu](mailto:christen@csee.usf.edu).

*Akin Gunay  
IEEE EMU CS SBC Chairman  
[akingunay@ieee.org](mailto:akingunay@ieee.org)*



*Akin Gunay, Evren Cavdir & Yuçe Tekol*

# IEEE Milestone — Marconi's Wireless Experiments

September 26, 2003

Salvan, Martigny Switzerland

During the Summer of 1895, 108 years ago, Guglielmo Marconi carried out some of the first experiments in wireless transmission in Salvan, above Martigny in Canton Wallis, Switzerland. Maurice Gay-Balmaz was at the time a 10-year old boy who carried Marconi's equipment.

In 1968 Gay-Balmaz told how the distance of the transmission, which at first didn't exceed a few meters, had eventually reached one and a half kilometers — thanks to the numerous adjustments that he made and the innovations that he added day after day to his equipment.

In the afternoon of September 26<sup>th</sup>, 2003 an IEEE Milestone was dedicated. The ceremony opened with speeches and a visit to the Marconi Museum.

Yves Fournier, a local historian and president of the Marconi Foundation in Martigny, presented a collection of items from Marconi's time, together with photographs to illustrate rural life in the late nineteenth century.

The Marconi Foundation from Villa-Griffone in Italy demonstrated Marconi's experiments with original and reconstructed equipment.

At the Shepherdess Stone, where Marconi experimented, the Milestone plaque was dedicated by Raymond Findlay, Past President of the IEEE, in presence of princess Elettra Marconi-Giovanelli, of Mr. Pascal Couchepin, President of Switzerland, of the Ambassador of Italy, of Mr. Pierre-Angel Piasenta, Mayor of Salvan, and of Mr. Thomas Burgener, Minister of the canton of Wallis.

The community of Salvan sponsored a brass band and a group of local people in traditional costumes offered wine to the audience at the foot of the Shepherdess Stone. Fortunately the weather was magnificent.

It was one of the major events in the history of the IEEE Switzerland Section. Special thanks go to Prof. Fred Gardiol for initiating the Marconi Milestone and to Prof. Yves Fournier for taking care of the local organization.



(L-R) Ray Findlay (IEEE Past President), Princess Elettra Marconi-Giovanelli (Marconi's youngest daughter), Donna Findlay, Guglielmo Marconi (Marconi's grandson).

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