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Lithuania Section hosts Region 8 committee

REPRESENTATIVES FROM Sections as far distant as South Africa, Iceland, Saudi Arabia and Morocco travelled to the Baltic country of Lithuania for the Spring 2006 Region 8 committee meeting. Between 7-9 April, more than 60 IEEE members reported on their activities, debated initiatives and focused on future actions. Mike Lightner, IEEE 2006 President, was on hand to observe the proceedings.

Vice chairmen led groups prior to the committee meeting on Membership Activities, Student Activities and

Technical Activities. Concentration was high as competing ideas were exchanged and many subjects were discussed. Caucus meetings gave those with agendas the opportunity to win support and refine their proposals. Outcomes were presented on the Saturday afternoon and Sunday morning. Voting on the motions took place during the R8 committee meeting on Sunday afternoon.

On Sunday morning, we listened to presentations from two candidates for IEEE President-elect, John Vig and Lew Termin. There

followed lively questions exploring the candidates' views on development, the value of membership, and problems unique to our Region.

We were blessed with early spring weather, and delegates were keen to get some fresh air. So early on the Saturday evening, the Lithuania Section organised a coach tour of the pretty Old Town, including visits to the Bell Tower, Vilnius University, the Presidential Palace, the Gates of Dawn and various churches. Fine weather and a late sunset ended the tour and brought us to a pretty



L-to-R: Mike Lightner (IEEE President 2006), Marc Apter (Past Director RAB), Baldomir Zajc (Director Region 8) and Jaafar Al-Ibrahim (VC Membership Activities Region 8).

country restaurant for a delicious dinner.

Our sincere thanks go to the IEEE Lithuania Section

for all the local organisation, especially its chair Irina Naidionova and secretary Jonas Matuzas.



Liège students tour local Space Centre

AERONAUTICS and SPACE have always been fascinating themes for engineers and scientists, but especially so at the University of Liège (Belgium), one of the top institutions for space engineering. The world-famous Space Centre in Liège is actually part of the University's School of Engineering, while also acting as an autonomous research centre.

In March, the IEEE Student Branch of Liège organised a guided tour of the Space Centre. During the visit, students were shown a satellite testing room capable of reproducing space conditions (such as vacuum and extreme temperature chang-

es), and saw demonstrations of radar imaging techniques used and developed by scientists at the Centre.

The Centre collaborates with ESA and NASA, as well as with most of the European space industries and laboratories, and has links with many large US laboratories, including those at University College Berkeley and the Naval Research Lab.

The Liège student visitors agreed the tour had helped them discover a whole new world close to their campus.

Our thanks go to the co-organisers, Nicolas Dupuis and Matthieu Philippe.

*Jonathan Pisane
IEEE SB Liege, Vice-Chair*



Guðbjörnsson wins engineer of the year

SIGMAR GUÐBJÖRNSSON, general manager of the Icelandic firm Star-Oddi, has been named Iceland's Electrical Engineer of the Year for 2006. This award is jointly granted by the IEEE and VFI, the association of chartered engineers in Iceland.

Sigmar (pictured above right, receiving his award from IEEE Iceland Chair, Kristinn Andersen) founded Star-Oddi
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in 1985 as a consulting firm, but since 1993 it has specialised in developing electronic instruments for ocean research. Its products include tiny electronic tags that can locate fish and other animals, recording environmental data into memory. The technology is truly innovative as the tags can receive location data from sonar equipment aboard vessels and register this data in the same way as other information. This gives unique opportunities to record and analyse the movement of creatures through the ocean. The firm has also developed equipment to collect data on ocean depth, temperature and salinity.

Sigmar is the author of numerous patents and has presented the results and products of Star-Oddi through research articles and presentations. The company received the Icelandic Innovation Award and the award of Icelandic Export Council in 2006.

This is the first time that this joint award of IEEE and VFI, the Icelandic association of engineers, has been presented in Iceland. Its objective is to put a spotlight on the work of electrical engineers and their accomplishments. The award will be given every two years to an electrical engineer who at any given time is considered to excel in his professional work as an engineer or is contributing in some other significant way to Icelandic society as a whole.

The award ceremony was attended by two IEEE representatives: Anthony Davies, former Region 8 Director (present on behalf of R8 Director Baldomir Zajc) and Lew Terman (on behalf of Ted Hissey, a great motivator for this award).

The event received substantial publicity in Iceland's media, and the chairs of the IEEE Iceland Section and the VFI were invited to discuss the award and electrical engineering on a morning TV programme.

Kristinn Andersen
IEEE Iceland Section Chair

Hamburg harbour provides perfect setting for transport conference

THE BEAUTIFUL Harbour Hotel in Hamburg (Germany) served as venue for the 3rd International Workshop on Intelligent Transportation, held on 14–15 March. The event was hosted by Dr Hermann Rohling, head of the Department of Telecommunications of the Hamburg University of Technology.

Sponsored by the German Research Association (DFG), Smart Microwave Sensors (SMS) and the IEEE Communications Society Germany Chapter, the workshop attracted more than 90 guests and speakers on an international level with contributions from Poland, South Korea, Italy, the United Kingdom, France, Sweden, Turkey, the



All hands on deck: the main conference room.

Netherlands, Portugal and Germany.

During the two days, various sessions were held with topics such as automotive radar, car-to-car commu-

nication, vision and image processing as well as present and possible future applications in the transport-related field. There were also papers covering the areas of aviation,

vessel navigation and high-speed trains, giving the audience a wide-ranging overview of the ongoing international research activities on transportation-related questions.

The restaurant of the Harbour Hotel offered a fine setting for the conference banquet, allowing everyone to admire the night-time harbour setting. Some participants visited the hotel's Tower Bar, which offers further views of the harbour along with a 360° panorama over the city of Hamburg.

Dr Rohling has announced the 4th International Workshop on Intelligent Transportation (WIT 2007) will be on 20–21 March 2007.

wit.tu-hamburg.de

Plans are already under way for ICC 2007

THE INTERNATIONAL Conference on Communications (ICC), the flagship IEEE Communications Society conference, will be held in Glasgow on 24–28 June next year. The organising committee has already been working to put all the preparations in place.

The conference will be held in the Scottish Exhibition and Conference Centre (SECC) in Glasgow.

The executive chair of ICC 2007, Professor Tariq Durrani from Strathclyde University, said "The theme

of our conference is Smart Communications Technologies for Tomorrow, or SCOTT for short. As well as the technical conference, we plan to run a substantial exhibition of Scottish Electronics companies, which will showcase their activities to an international audience."

Meetings have been held at the ICC 2005 conference in Seoul (South Korea) and at Globecom 2005 in St Louis (USA) to organise the technical programme. It will consist of 10 technical symposia,

organised by the technical committees of the IEEE Communications Society. There is also a general conference for other topics.

In the next month or so, the electronic database sys-

tem, EDAS, will be opened for electronic paper submissions to the conference.

The deadline for paper submissions is September 15th 2006.

www.icc007.org

The ICC 2007 stand at Globecom 2005: (L-to-R) Tariq Durrani, Bill Templeman, John Thompson, Ivan Andonovic and Sheila Forbes.



Arrange a workshop for your next event

WOULD YOU like to attend a workshop on the development of leadership skills or project management?

IEEE Region 8's workshop programme offers full-day sessions in both topics, conducted by its own team of trainers.

These workshops are organised and sponsored by R8 EASC together with R8 Sections and Student Branches, and can be delivered as part of conferences, student events, IEEE promotional activities, and so on.

Workshops are especially appropriate for, but not limited to, senior students and young professionals. Their modular structure is adjustable to the needs of a specific audience and those of the event organiser.

The Development of Leadership Skills workshop introduces participants into interpersonal, group, team and leadership skills. The Project Management workshop introduces participants into project management techniques and how to apply them.

Both workshops are highly interactive, and are illustrated with several team assignments and individual exercises.

The workshop programme began in 2001 and has grown quickly: so far, 42 workshops have taken place, serving more than 1,600 participants all over Region 8.

To book a workshop for your own event in Region 8, contact Matej Zajc (m.zajc@ieee.org) or Said E. El-Khamy (elkhamy@ieee.org).

TV and radio celebration in Croatia

ON 15 May, IEEE members in Croatia celebrated two broadcasting milestones in the country: 80 years of radio and 50 years of television.

"Halo, halo! Ovdje Radio Zagreb!" were the first words broadcast live on the air on 15 May 1926, marking the beginning of radio broadcasting in Croatia.

On the 30th anniversary of this event, in 1956, pioneering engineers succeeded in transmitting a television image from Vienna to Zagreb via Graz and Slovenia. The first live broadcast was made that September, and Television Zagreb began operating in November.

www.hrt.hr

Ben Franklin House update

THE OFFICIAL re-opening of Benjamin Franklin's London home to the public (see *Region 8 News*, March 2006) has been a success, according to its directors.

Between January and April, nearly 2,000 people visited the Historical Experience, and 250 pupils from various London schools have explored the Student Science Centre. One of the better-known guests was Lynne Cheney, wife of the US Vice President.

From June to September, the house will be open 10am–5pm Wednesdays to Mondays inclusive.

www.benjaminfranklinhouse.org



IEEE-GCC Bahrain event promises future prosperity

MORE THAN 500 delegates and 27 companies participated in the 3rd IEEE-GCC Conference in Manama, Bahrain, on 19–22 March.

The conference was held under the patronage of His Highness, the Prime Minister of the Kingdom of Bahrain, who was represented at the inauguration ceremony by His Excellency Shaikh Abdullah Bin Salman bin Khalid Al-Khalifa, Minister of Electricity and Water.

IEEE-GCC conferences have built up a track record of high quality papers, panels, plenary and invited speakers and tutorials. No less than 80 papers on carefully selected topics were covered during 18 technical sessions at the event. Celia Desmond, 2006 IEEE Vice President Technical Activities, presented a tutorial on Project Management for Telecommunications Projects, and remained at the conference throughout.

This was the latest in a series of GCC conferences jointly organized by the IEEE Sections in Bahrain, Kuwait, Oman, Qatar, Saudi Arabia and UAE with support from their Governments. Tremendous efforts were required in organising a conference of this magnitude and its success was proof of the team spirit and cooperation amongst the GCC member countries.

Nabil Al-Dabal, conference chairman, noted that the number of professional participants had increased this year.

Elaborating on the conference theme, Unity through Technology, he added that the unity achieved by the GCC countries through the adoption of new technologies helped maximise opportunities through synergy and collaboration: "This unity will safeguard the common interests of the GCC countries and take us forward to a new and prosperous era".

www.ieeegcc.org



L-to-R: Nabil Al-Dabal (IEEE Saudi Arabia Section), His Excellency Shaikh Abdullah Bin Salman bin Khalid Al-Khalifa (Bahrain), Dr Abdul Rahman Al-Ghunaim (IEEE Kuwait Section), Dr Isa Gamber (IEEE Bahrain Section).

Apply to VCF for IEEE Region 8 travel funding

REGION 8 is the fastest growing IEEE region, covering Europe, Africa and the Middle East. The average income in various R8 countries differs by a ratio of 100. That is why the IEEE set up a Voluntary Contribution Fund (VCF). This fund is fed by voluntary contributions donated by members in richer countries

to support member activities in the other countries.

The VCF supports a variety of projects, but one of its most important tasks is to help with members' travel expenses when visiting conferences and other IEEE events in different countries.

To be eligible for a VCF travel grant to a conference in

Region 8, you must have current IEEE membership, with at least two years of IEEE membership to date, and live within Region 8. You must have a paper accepted for presentation at the conference, which must be within Region 8 and sponsored or co-sponsored by IEEE or any of its sections. You can ap-

ply for a grant once every five years, or twice as often if you are a student. Grants of up to \$1,000 are available.

To apply, obtain a form from the VCF and have it endorsed by your local section chair. For more information, visit the VCF webpage.

www.ewh.ieee.org/reg/8/vcf.html

in brief

Region 8 Chapter of the Year

AES/AP/MTT POLAND Chapter has won IEEE Region 8's Chapter of the Year contest in the 'big chapters' (100+ members) category. MTT/AP/ED Czechoslovakia Chapter won the 'small and middle size chapters' category. Also, the activities of Slovenia ComSoc Chapter were recognised with a special diploma.

Nokia honours Gabbouj

NOKIA FOUNDATION has granted its 2005 Recognition Award to Dr Moncef Gabbouj of Tampere University of Technology (Finland) for his merits in the development of international educational network and graduate engineering studies in Finland. Dr Gabbouj is a world-renowned expert who has progressively broadened international cooperation in the teaching of IT and signal processing.

New head for workshops

AFTER FIVE years and 43 workshops, Dr Kurt Richter is stepping down from his responsibilities in the IEEE Region 8 EASC for the co-ordination and organisation of the Leadership and Management Programme. He is succeeded by Dr Matej Zajc (m.zajc@ieee.org).

Nikola Tesla – Neverending Story

IEEE BELGRADE Student Branch (Serbia & Montenegro) is one of the organisers of Tesla – Neverending Story, a worldwide contest for engineering papers that celebrates the 150th anniversary of the birth of Nikola Tesla. The event takes place in Belgrade on 8–16 July. www.tesla2006.org

Changes ahead at R8N



THIS ISSUE of IEEE *Region 8 News* is full of stories about activities of members in Europe, Middle East and Africa. You can find a complete list of Region 8's many Sections (every member belongs to one) and Chapters (technical societies' local organisations) on our website: www.ieee.org/r8. These organisations and the volunteers who lead them are the lifeblood of the IEEE, so please join in.

I want to extend my welcome to Yang Yang, our new R8 Standards Coordinator, who takes over from Ingo Ruesch, who I would like to thank for his many informative columns on why IEEE Standards are important in our region.



With regard to *Region 8 News* itself, several changes are on their way. First, please welcome Basak Yüksel to the post of assistant editor. Basak will continue to edit the Student News but will also contribute to improving the newsletter further and to develop the website.

We were overwhelmed with reports and articles this issue! We have added some extra pages to fit as much in as possible, and for any articles that need more space you will find links from this newsletter to the full, unabridged versions on the *Region 8 News* website. This will allow greater depth of coverage for the increasing amount of activities in our expanding Region (at least for readers who have an Internet access).

A new-look for the website is planned. All readers are invited to contact me with suggestions and letters.

Roland Saam
editor

Basak Yüksel
assistant editor

Region 8 DID YOU KNOW? Nominations and Appointments Committee

THE NOMINATIONS and Appointments Committee nominates IEEE members for the elected positions in the Region 8 Committee, prior to voting during our autumn 2006 meeting. This includes such positions as the vice-chairs for Technical Activities, Membership Activities and Student Activities.

The Committee also produces at least two candidates for R8 Director Elect, for endorsement by the Region 8 Committee and independently, for forwarding to the IEEE Board of Directors for

its November 2006 meeting. Theoretically, the Board is not obliged to approve nominations for the ballot, and could in fact propose its own candidates, but approval is normally given as a matter of course.

An additional task of the R8 Nominations and Appointments Committee is to propose candidates for the Region 8 appointed positions (such as the Industrial Relations co-ordinator and WIE co-ordinator), for appointment by the Region Director.

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REGION 8 OPERATING COMMITTEE

Bylaws and descriptions of the committee offices — refer to www.ieee.org/r8

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Extra copies If you would like extra copies of Region 8 News for distribution at your IEEE events, please email a request to the editor before the deadlines below, specifying quantity and delivery address. Please put *R8 News Extra Copies* in your email subject line.

Submitting articles We welcome articles from any member of the IEEE. Submit your articles to the editor as plain text files, or by email to R8News@ieee.org. Please put *R8 News* in your email subject line.

Graphics, photos and images should be high resolution (300dpi). They may be uploaded to the Region 8 website using the file transfer protocol <ftp://ewh.ieee.org/r8>

Deadlines for upcoming issues

September 2006 issue 1 July 2006
December 2006 issue 1 October 2006
March 2007 issue 1 January 2007
June 2007 issue 1 April 2007



Athens hosts annual Section assembly

THE ANNUAL meeting of the Greek IEEE Section took place at the National Technical University of Athens (NTUA) on 12 April 2006.

The purpose of this event was to bring together the country's IEEE members and friends, to strengthen their co-operation, to inform the Greek scientific and technical Community about the activities of IEEE, and to discuss and plan future activities.

Before the meeting, the IEEE Greece Section officers – Nikos Hatzigiargyriou (Chair), A Skodras (Vice-Chair) and N Koziris (Secretary/Treasurer)

met with the chairs of the 14 Chapters currently active in Greece.

An overview of the activities of each Chapter was given, and ideas and proposals for future activities were exchanged.



Prof V Maglaris speaking on computer network security.

The event itself included two lectures on Communications Security. V Maglaris, a professor at NTUA's School of Electrical and Computer Engineering and a member of the European Committee for Network Security, spoke



Prof P Constantinou lectures on wireless security.

about the current threats on Internet security. Prof P Constantinou, former Chair of the IEEE Greece Section, presented the problems of wireless security.

The lectures, which took place at the Main Hall of NTUA's Admin Building, were attended by about 100 engineers from academia and industry. A large number of IEEE student members also attended the event.

The day concluded with a light dinner in a warm and sociable atmosphere.

Prof A Skodras
Vice-Chair
IEEE Greece Section

in brief

United Arab Emirates

IEEE UAE Section has elected its officers for the new period. The new executive comprises Dr Eesa M. Bastaki (Chair), Dr Mohammed Al-Mualla (Vice Chair), Mr Hareendralal (Secretary) and Mr KS Taj (Treasurer). www.ewh.ieee.org/r8/uae

Bulgaria

IEEE BULGARIA Section has also announced its newly elected executive: Jordan Kolev j.n.kolev@ieee.org (Chair), Rositza Goleva rig@tu-sofia.bg (Vice Chair), Sava Savov svsavov@ms.imee.bg (Secretary) and Katya Asparouhova k_asparouhova@tu-sofia.bg (Treasurer).

Republic of Macedonia

IEEE REPUBLIC of Macedonia Section elected its new executive in February. The new team is as follows: Dr Vladimir Dimchev vladim@etf.ukim.edu.mk (Chair), Dr Suzana Loskovska suze@etf.ukim.edu.mk (Vice Chair), Dr Goce Arsov g.arsov@ieee.org (Secretary) and Dr Dimitar Taskovski dtaskov@etf.ukim.edu.mk (Treasurer).

Lebanon

IEEE LEBANON Section has elected a new executive too. The contacts are: as Dr Mohamad Adnan Al-Alaoui adnan@aub.edu.lb (Chair), Dr Elias Nassar enassar@ndu.edu.lb (Vice Chair), Dr Hadi Sawaya hadi.sawaya@fi.usj.edu.lb (Secretary) and Ghassan Shaban ghassan.shaban@dar-group.com (Treasurer).

Extended Section reports can be read online at Region 8 News' website: www.ieee.org/r8



Sweden updates site

IEEE SWEDEN Section has relaunched its website. It employs the look and feel of the corporate IEEE site.

The site has been programmed entirely in PHP. Chapter and Section officers are now able to update their

own areas with news, events and Chapter information.

Its developers have said the site's PHP template could be adapted for other Sections if they are interested. Just get in touch!

www.ieee.se

EMB Chapter offers help

IEEE UK & Republic of Ireland Section's Engineering in Medicine & Biology Chapter offers a reminder that it is happy to assist members in obtaining their Senior Membership status.

The EMB Chapter's website is at ewh.ieee.org/r8/ukri/embs.

Information on Senior Membership can be found at www.ieee.org/organizations/rab/md/smpprogram.html.

Social Gathering for Bahrain Section

A NUMBER of Bahrain Section members responded to the invitation for a social get-together at BAPCO Club in Awali, Bahrain on 6 April from University of Bahrain, Private and Public Sectors.

The gathering began with a talk by Professor Isa Gamber the chairman of the section. After welcoming all the attendees, he described the activities of the Section, including the presentations organised in cooperation with the Electrical and Electronics

department at the University of Bahrain. He also informed the members that the University has agreed to open a branch for the Section in the College of Engineering Campus.

Dinner in the evening served afterwards allowed members to get properly acquainted. During the dinner, members shared ideas and information related to their sphere of work.

Dr Isa Gamber
IEEE Bahrain Section Chair

WIE to make its debut at this year's SB/GOLD Congress

FOR THE first time, Women in Engineering Affinity Group representatives will participate in the very popular Region 8 Student Branch/GOLD congress in Paris from 31 August to 4 September.

Affinity group representatives from United Arab Emirates, Macedonia, Spain,

South Africa, and Nigeria plan to attend.

For further information, if you're interested in participating, please e-mail me at clementina@ieee.org.

Clementina Saduwa
Chair, WIE IEEE Nigeria
WIE Coordinator Europe,
Middle East and Africa

IEEE Fellows in Region 8

The membership grade of IEEE Fellow designates those engineers who have demonstrated outstanding proficiency and have achieved distinction in their profession. Here is an up-to-date register of the IEEE Fellows within Region 8, listed by Section.

BENELUX

Prof Frans Groen
*University of Amsterdam,
The Netherlands*

For contributions to sensor data processing and shared dynamic world modeling for autonomous real-world multi-agents systems.

Prof Luc Vandendorpe
Université Catholique de Louvain, Belgium
For contributions to digital communications.

Prof Yves Rolain
Vrije Universiteit Brussel (VUB), Belgium
For contributions to measurement and modeling of nonlinear microwave devices.

Dr Marco Dorigo
IRIDIA – Université Libre de Bruxelles, Belgium
For contributions to ant colony optimization and swarm intelligence.

Dr Paul Van Dooren
Université Catholique de Louvain, Belgium
For contributions to numerical methods in systems and control.

FRANCE

Dr Emmanuel Rosencher
ONERA - Office National d'Etudes et de Recherches Aérospatiales, Palaiseau
For contributions to nonlinear optics and optoelectronic devices.

Prof Patrick Combettes
Université Pierre Et Marie Curie, Paris
For contributions to set the theoretic methods and convex analysis in signal and image processing.

Prof Dirk Sloock
Eurecom Institute, Sophia Antipolis
For contributions to adaptive filtering and signal processing for wireless communications.

Dr Simon Deleonibus
CEA LETI, Grenoble
For contributions to nanoscaled complementary metal oxide semiconductor (CMOS) devices technology.

Dr Rene Garello
GET – ENST Bretagne, Brest
For contributions to signal processing applied to remote sensing of the ocean.

Dr Alain Sabot
Electricite De France R&D (EDF R&D), Moret/Loing
For contributions to high voltage gas insulated substations and transmission lines.

Dr Yves Robert
Ecole Normale Supérieure de Lyon
For contributions to the design and analysis of parallel algorithms and scheduling techniques.

SWITZERLAND

Dr Alfred Rufer
EPFL Ecole Polytechnique Federale de Lausanne
For contributions to supercapacitive energy storage techniques and asymmetrical multilevel inverters.

Prof Thomas Henzinger
EPFL Ecole Polytechnique Federale de Lausanne
For contributions to the verification of real-time and hybrid systems.

Dr Sedat Olcer
IBM Zurich Research Laboratory, Ruschlikon
For contributions to signal processing techniques in digital data transmission and storage.

Dr Giovanni Cherubini
IBM Zurich Research Laboratory, Ruschlikon
For application of signal-processing techniques to digital data transmission and storage.

For application of signal-processing techniques to digital data transmission and storage.

ISRAEL

Dr Ariel Orda
Technion Israel Institute of Technology, Haifa
For contributions to the use of game theory for network quality of service and survivability.

NORTH ITALY

Prof Yoram Ofek
University of Trento, Povo
For contributions to switching, scheduling and synchronization in data networks.

Prof Roberto Ottoboni
Politecnico di Milano
For contributions to digital signal processing and tactile sensors for measurement systems and robotics.

Prof Gianluca Setti
University of Ferrara
For contributions to application of nonlinear dynamics to communications, signal processing, and information technology.

Prof Cesare Alippi
Politecnico di Milano
For contributions in the fields of robustness and application-level synthesis of embedded information processing systems.

Prof Carlo Ghezzi
Politecnico di Milano
For contributions to software engineering and programming languages.

Prof Enrico Macii
Politecnico di Torino
For contributions to power-efficient very large scaled integrated (VLSI) circuits and systems.

UK & REPUBLIC OF IRELAND

Prof Christos Christopoulos
University of Nottingham
For contributions to electromagnetic modeling and simulation of high-frequency electronic systems.

Prof David Rosenblum
University College London
For contributions to scalable, distributed component- and event-based software systems.

Prof Charles Turner
King's College, London University
For contributions to engineering education.

Prof Richard Vinter
Imperial College London
For contributions to optimal control of process systems.

Dr Richard Ranson
Filtron, West Yorkshire
For contributions to advanced microwave systems.

Prof Leonard Dissado
University of Leicester
For contributions to modeling electrical aging and breakdown of extruded insulating materials.

Prof Ingemar Cox
University College London
For contributions to digital watermarking.

GERMANY

Prof Wolfgang Kunz
University of Kaiserslautern
For contributions to hardware verification, very large scale integrated (VLSI) circuit testing and logic synthesis.

Prof Heyno Garbe
University of Hannover
For contributions to electromagnetic compatibility (EMC) measurement techniques.

Dr Hermann Rohling
Technische Universität Hamburg
For contributions to automotive radar.

Prof Ulrich Reimers
Braunschweig Technical University
For contributions to the development of Digital Video Broadcasting (DVB).

Dr Werner Weber
Infineon Technologies, Munich
For contributions to metal oxide semiconductors (MOS) device physics.

Prof Alex Gershman
McMaster University, Ontario, Canada
For contributions to adaptive beamforming and sensor array processing.

Dr Karlheinz Brandenburg
Fraunhofer Institute for Digital Media Technology and Technical University Ilmenau
For contributions to audio coding.

Prof Guenther Schmidt
Technische Universität Muenchen

For contributions to theory and practice of sensor-guided locomotion in biped and mobile robotics.

Prof Johannes Huber
Telecommunications Laboratory (LNT), Erlangen
For contributions to coded modulation and digital subscriber line design.

SWEDEN

Prof Johan Liu
Chalmers University of Technology, Gothenburg
For contributions to environmentally compatible electronic materials and processes.

Prof Göran Stemme
Royal Institute of Technology, Stockholm
For contributions to microelectromechanical systems (MEMS).

Prof Peter Andrekson
Chalmers University of Technology, Gothenburg
For contributions to ultra-high-speed fiber-optic communication systems.

Dr Jan Uddenfeldt
LM Ericsson, Stockholm
For contributions to cellular telecommunications systems.

CENTRAL & SOUTH ITALY

Prof Carlo Cecati
University of L'Aquila
For contributions to advanced control of power electronics converters and electrical drives.

Prof Antonio Bicchi
Università di Pisa
For contributions to automatic control of mechanisms and robots.

GREECE

Prof John Sahalos
Aristotle University of Thessaloniki
For contributions to antenna analysis and design.

Dr Nikolaos Uzunoglu
National Technical University of Athens
For contributions to electromagnetic theory with applications to scattering and guided wave propagation.

POLAND

Dr Janusz Kacprzyk
Systems Research Institute Warsaw
For contributions to use of fuzzy logic in decision making and control.

Prof Marek Moszynski
Soltan Institute for Nuclear Studies, Otwock
For contributions to scintillation detectors in nuclear physics and nuclear medicine.

FINLAND

Dr Ari Sihvola
Helsinki University of Technology (HUT)
For contributions to the application of theory in electromagnetic complex media and random materials.

AUSTRIA

Prof Erich Neuhold
Fraunhofer IPSI, Darmstadt, Germany
For contributions to distributed multimedia databases.

PORTUGAL

Prof Vladimiro Miranda,
Inesc Porto
For contributions to computational intelligence tools in electric power systems.

CZECHOSLOVAKIA

Prof Jan Zehentner
Czech Technical University in Prague
For the discovery of new leaky modes in open planar transmission lines for microwave integrated circuits.

CYPRUS

Dr Marios Polycarpou
University of Cyprus & University of Cincinnati Nicosia
For contributions to the theory and application of intelligent systems and control.



Renaud Di Francesco gives an introduction to practical standardisation for engineers.

Sony and BT speak on standardisation

TO SUCCEED in today's competitive globalised markets, more and more companies rely on international standards in the whole process of product planning, development, marketing, sales and management. The technical and economic benefits of standards have been recognised by industry and governments.

On 23 February, Dr Renaud Di Francesco, head of Sony's European Technology Standards Office, gave a talk at University College London (UK) on Standardisation: An Introduction to Practical Standardisation for Engineers. In this talk, Renaud analysed the need for standards from an industry perspective, introduced the mechanisms, methodologies and processes of standardisation, and summarised the different ways that companies, universities, regulators, governments and other technical institutions can contribute to standards.

The next day, Dr Liwen He from British Telecom discussed the security challenges associated with modern telecom and network carriers, in a lecture entitled Network Security: Standards, Challenges and Applications. He highlighted the most recent developments in telecom and network security standards from ITU SG 17 and IETF OPsec WG.

Liwen has recently joined the IEEE Communications and Information Security Technical Committee, and is very active in telecom security standard bodies including ITU study group 17 and the

IETF OPsec working group.

For more information about IEEE standards, IEEE Industry Standards and Technology Organisation (ISTO), IEEE's collaboration with IEC, ISO, ITU and other standards bodies, and how to participate in from standards development, please visit standards.ieee.org.

Yang Yang
R8 Standards Coordinator
YangYang@ieee.org

Czech update

THE JOINT MTT/AP/ED Chapter of IEEE Czechoslovakia Section associates more than 70 IEEE members interested in the field of microwaves, antennas and propagation, and electron devices in the Czech Republic and Slovakia.

The Chapter co-operates with many Czech and Slovak universities, institutes and technical organisations. Its main mission is to provide its members and the technical community at large with information on the latest developments in the field, establish international contacts, support students and promote IEEE membership.

The Chapter hosts lectures and has organised many international and regional scientific conferences. It has also initiated several student competitions.

Pavel Hazdra, Chair
www.ieee.cz/mtt/mttapede.html

Portugal Section celebrates 25 years



Attendees at the RAS Chapter kick-off meeting (above) give Prof Daniela Rus (right) a warm reception.

THIS YEAR, IEEE Portugal Section is celebrating his 25th anniversary.

One important recent success has been to reactivate the Joint IE/PEL/IAS Chapter, which had closed in 2003 after its founder and Chair, Castro Simas, passed away. Additionally, six new Chapters have been created: Communications, Computational Intelligence, Computer, Education, Robotics and Automation, and Vehicular Technology.

The Communications and Robotics and Automa-



tion Chapters have already organised technical meetings with distinguished lecturers Bixio Rimoldi and Daniela Rus respectively.

Recent conferences and symposia organised by the Section have included a Workshop on Integrated Nonlinear Microwave and Millimetre-wave Circuits at the end of January, and REC2006 in February.

J Costa Freire, Chair
www.ieee-pt.org

Technical English project prepares for September launch

THE IDEA of founding a 'Technical English Program' (TEP) was discussed and approved at the Region 8 Committee Meetings of April 2005 (Paris) and October 2005 (Tampa). The concept was also presented in a breakout session at Tampa's IEEE Sections Congress 2005.

A pilot project was approved at the Region 8 Committee Meeting in Vilnius in April 2006, and will be launched by the Russia Northwest Section from 1 September this year.

Background

Region 8 is a healthy IEEE Region with a growing membership, expanding Sections and a great deal of IEEE activity. However, of the 15 independent states of the former Soviet Union, only four have established their own Sections. IEEE membership in this zone is very low compared with that of northern and western Europe. For example, at the time of writing, Russia has only 710 members while its closest neighbour, the relatively small Finland, has 969.

The problem, it appears, is due to the poor standard of English language among its engineers, students and teachers.

In the former Soviet Union, English was not generally taught in schools or technical universities. All literature was provided exclusively in Russian. English was not considered to be useful in engineering practice, and Soviet engineers were actively discouraged from establishing international contacts.

Modern Russia has witnessed much progress in free global communications but learning English has only recently become

obligatory within the educational curriculum. By contrast, in central and eastern Europe, three out of every four school pupils already study the language.

Since lack of English is perceived as a barrier to IEEE expansion, it is appropriate that the IEEE should furnish its Region 8 volunteers with a solution.

The project

TEP will arrange technical tutorials in electrical engineering over the course of one semester. To reduce costs, local trainers may be employed – not professional English teachers but local IEEE volunteers such as professors in Electrical Engineering, simply because of the profession's highly technical language.

At the end of the semester, a visiting speaker from the IEEE Distinguished Lecturer Program will provide a short one- or two-day tutorial in Electrical Engineering. After this tutorial, every attendee must make an effort to deliver a presentation in English at a local seminar or a conference.

An IEEE Certificate with the Region Director signature will complete the training. Furthermore, the best two to six students will be awarded a year's IEEE student membership free of charge. One student will be given a grant to present a paper at any IEEE Conference in Region 8.

TEP deserves to be a powerful tool for IEEE volunteers in developing countries. It should increase IEEE membership and speed up their inclusion within a truly worldwide organisation.

Alexander Mikerov
Russia Northwest Section
a.mikerov@ieee.org

Region 8 report on Technical Activities

ALL AREAS of technical activities in Region 8 have been very productive and made significant achievements in 2005. Here are some of the highlights of last year.

Conference Coordination

EUROCON 2005, held on 21–24 November 2005 in Belgrade, was extremely successful, with over 400 papers and over 500 attendees. After the Conferences in Ljubljana (2003) and Belgrade (2005), EUROCON has become an important and stable event. In the future, we intend to organise additional events in conjunction with it, such as Chapter Chair Meetings of specific Societies (e.g. Education).

Chapter Coordination

The number of Chapters has exceeded 400 and most of them are decisively active. The Chapter of the Year Contest has grown into quite a significant event. It should be noted, though, that certain Chapters fail to report regularly on their activities and have therefore been placed on the list of inactive Chapters.

Industry Relations

The preparation of the IRO Guide has been completed, and we have seen the consolidation of a very strong team devising major plans for future activities.

Education & Accreditation (EASC)

This year, apart from regular Subcommittee activities, several new E-S Chapters have been formed as a result of EASC activity, which opens new possibilities in terms of Education activities. A Memorandum of Understanding has been signed between IEEE R8 Director and EAEEIE (European Association for Education in Electrical and Information Engineering), which creates opportunities for wider future cooperation.

Standards

Promotion and participation in the conference Standards For Global Business, held on 26–27 September 2005 in Munich, were aimed at increasing R8 participation in the standards development process.

2006 Chairs and Co-ordinators

Industry Relations: Rahmi Mushcab (Saudi Arabia)
Standards Coordinator: Yang Yang (UK)
Conference Coordination: Peter Farkas (Slovakia)
Chapter Coordination: Nino Stojadinovic (Serbia)
Education & Accreditation: Victor Fouad Hanna (France)

*Prof Jozef Modelski
Vice Chair*

*Technical Activities
http://ewh.ieee.org/reg/8/technical_activities.html*

SINCE BEING established in 2002, the IEEE Romania PES Chapter has been constantly involved in numerous challenging and highly visible activities. For its efforts, it won the runner-up position in 2004's IEEE Power Engineering Society's Outstanding Small Chapter Award.

This year started with a visit by Prof Alberto Berizzi from Politecnico di Milano (Italy) at University Politehnica of Bucharest, on 16–18 January. After seeing the Romanian National Dispatching Centre and some laboratories within the Power Systems Department, Prof Berizzi presented a lecture on The Italian Blackout, Sunday 28 September 2003.

The underlying theme of the lecture was the growth in demand for electrical energy and how the introduction of an electricity market represents increasing challenges



Prof Alberto Berizzi (centre, with papers) at the Politehnica.

Milan's Berizzi visits Romania PES Chapter

for control centre operators. An overview of the blackout itself was presented together with the sequence of events, including the evolution of frequency instability, actions taken and some analysis of root causes.

There are many lessons learned from blackouts worldwide, and we conclude that the power systems needs

more advances in technology in order to avoid huge damages reflected by loss of human lives and money.

The presentation was well-attended by more than 70 engineers, members of the academic staff and faculty, and electrical engineering students from Politehnica.

*Mircea Eremia, Chair
IEEE Romania PES Chapter*

UAE Section hits a high profile at POWER-GEN



THE POWER-GEN Middle East conference and exhibition took place at Abu Dhabi on 30 January – 1 February. This year's event focused on power generation, and transmission and distribution.

IEEE UAE Section and its

Women in Engineering (WIE) group enjoyed a high profile at the event thanks to sponsorship from the Abu Dhabi Water & Electricity Authority (ADWEA). The Section's Societies, Chapters, Student Branches, WIE and GOLD

were represented by active volunteers from the Petroleum Institute in Abu Dhabi. Eesa Al Suwaidi, Dr Lisa Lamont, Dr Majid Bostan and Naji Al Musabi joined student volunteers to welcome visitors at the IEEE UAE stand, introducing them to the IEEE and explaining the Section's activities.

Under the patronage of His Highness Sheikh Diab Bin Zayed AL Nahyan, POWER-GEN Middle East is the largest power exhibition in the region, with a lecture schedule of more than 60 presentations.

BAU packs a busy schedule

AL-BALQA' APPLIED University had a stand at JIEEEC 2006 (6th Jordanian International Electrical & Electronics Conference), held under the patronage of the prime minister of Jordan.

WIEOC (Women In Engineering Orientation Conference) was held on 11 March

2006 with the participation of our committee members and other Branches in Jordan, female professors and engineers in our university.

For a full report on BAU and information on its recent activities, go to the *Region 8 News* website.

www.ieee.org/r8



A hard-working team of volunteers publicises the benefits of IEEE membership.

GOLD is 10 years old!

THE IEEE Graduates Of the Last Decade (GOLD) programme is now a decade old. The programme was first launched back in April 1996, so 2006 marks an important milestone in its longevity.

A Region 8 GOLD Team meeting took place on 13–14 May in Munich (Germany). The idea was to get GOLD Team leaders together, discuss our experiences and challenges, exchange best practices, and distribute presentations for local use. We will report on this event next issue.

Region 8 is renowned for its many excellent student activities, and the Student Branch Congress has become a popular tradition with students, held every two years. At these events, Student Branch leaders and

volunteers meet to exchange ideas, network and learn—and to have fun.

In 2002, the meeting was extended to a Student Branch/GOLD Congress in Cairo for the first time. This was successfully continued with the 2004 Student Branch/GOLD Congress in Passau, Germany. This year, the third joint event will include our Region 8 WIE group and will be held on 31 August – 3 September 2006 in Paris (France). The Congress will be organised by the R8 SAC Chair, Marco Delimar, and his team, together with myself and with the support of the local Student Branch and GOLD volunteers from the University of Paris and IEEE French Section.

Rolf Remshardt

Region 8 GOLD Coordinator 2006

Volunteering aids promotion

IEEE GOLD was initiated 10 years ago with goals to equip and provide networking opportunities for the recent graduates and young members so that your journey in the unfamiliar environment can be less arduous and more fulfilling.

Many who proceeded to learn more about IEEE eventually found value in the membership. Those who took steps to volunteer in the Institute discovered that volunteering refined their interpersonal skills and enlarged their capabilities. All these indirectly bolstered career advancement.

Nine affinity groups were established in the region in 2005 alone. So far, that was the highest single-year growth ever achieved in all regions. Well done!

R8 GOLD activities have also gained momentum and vibrancy. A number of new initiatives are being considered. I attribute these to the strong leadership and persistence of Rolf Remshardt (R8 GOLD coordinator & Past R8 Director). I encourage Rolf to continue this good work in 2006, and others to learn from the examples that he has set for future R8 GOLD activities.

GOLD (RAB) Committee 2006 held its annual meeting in San Francisco on

10–12 March. One outcome is the planned launch of three activities that bring immediate value to GOLD members worldwide:

IEEE mentoring

Using this programme, GOLD hopes to match young members to seasoned professionals who will then act as mentors. This program was piloted in Region 1, 2 and 3 in 2005, and the results are positive. We are evaluating this program and expect to launch it to all regions within this year.

GOLD Online seminar

We launched internationally the first one-hour online seminar in December 2005

on the topic *Networking: How Young Engineers Can Open Doors To More Opportunities!*

The recorded session is available on the IEEE GOLD website (www.ieee.org/gold). A second seminar, on the topic of Financial Planning, should be available by the time you read this.

Expert Now Tutorial

GOLD is working with Carl Selinger, the author of *Stuff You Didn't Learn in Engineering School*, to develop a one-hour online tutorial. We expect samples of this tutorial to be ready in 2006.

Darrel Sau-Foong CHONG
Chair, Region 8 GOLD

Croatia GOLD learns the art of papers

IEEE CROATIA Section GOLD Affinity Group organised a talk entitled: *Writing CC Scientific Papers – Experiences and Recommendations*. It was presented by Zvonimir Sipus, associate professor from the Faculty of Electrical Engineering and Computing, University of Zagreb (Croatia).

The event took place at the Congress Centre at the University of Zagreb on 20 December 2005.

A video link was estab-



lished between Zagreb and Rijeka during this presentation. More than 80 people attended in Zagreb, with 10 people watching at the Faculty of Engineering, University of Rijeka.

www.ieee-croatia-gold.org

GOLD activities: regional round-up

Egypt

GOLD IN Egypt is planning to hold the First Management Conference 2006 in the last week of June, to increase the social awareness about management and planning. We will also be involved in the 5th Egyptian Engineering Day (EED 2006), the annual gathering of the Egyptian engineering community which brings together electrical, electronic, communications, computer and mechanical engineers.

The GOLD team will be running the Made In Egypt competition again this year, under the auspices of the minister for Trade and Industry, the minister for Higher Education and Scientific Research, and the minister of state for Administrative Development.

In the second Future City Competition, middle school students create cities of tomorrow, on computers and three-dimensional models. We have found this competition introduces many young people to the profession of engineering.

Four issues of Egypt GOLD Magazine will be published during 2006, sent in both Arabic and English to all IEEE Egypt members.

www.ieee-egyptgold.com

Saudi Arabia

THE IEEE GOLD Affinity Group of the Saudi Arabia section was officially founded on 22 May 2005, and has been highly active since. The GOLD AG attended with Saudi Arabia Section as the GOLD representative at Sections Congress 2005 at Tampa.

The GOLD Vice Chair was also assigned to represent IEEE GOLD and King Fahd University (KFUPM) Student Branch at King Abdulaziz University (KAU).

Short presentations about GOLD activities and objectives were held by IEEE Student Branch Counselor and IEEE GOLD Chair to introduce GOLD to the Student Branch at King Fahd University.

We have also arranged a number of visits, including one to the Saudi Toastmasters Club at Dhahran, with a view to helping future engineers learn communication and presentation skills. We organised a trip to the Canton Fair in Guangzhou (China) on 15–20 April, which focused on IT, electronics and power distribution. This trip include a tour of the K-mate factory and its R&D centre.

www.Saudigold.org

UKRI

UKRI GOLD has helped organise several events already this year. These include the lectures in February by Sony's Renauld Di Francesco and BT's Liwen He (see page 7) at University College London.

We have also co-organised the talk on Managing Your Professional Career by Prof Charles Turner at the University of Plymouth in March, and another on Finding a Path Subject to Many Additive QoS Constraints, by Prof Guoliang Xue at University College London in April.

Poland

THE POLAND Section GOLD team was involved in the 17th IEEE-SPIE Symposium on Electronics and Photonics for HEP and FEL Experiments, held on 20–21 January in Warsaw. The event was attended by around 70 people, and 50 papers were presented.

Extended GOLD reports can be read online at *Region 8 News'* website:

www.ieee.org/r8

HELLO FRIENDS! The Region 8 Student Activities Committee recently held its meeting in Vilnius, Lithuania (see photo). This gave us a chance to explore the beauty of one of the newest IEEE Sections and to review the IEEE Student Activities in the Region. Beyond any doubt, the headlines of the IEEE Student Activities in Region 8 will be the IEEE Region 8 Student Branch and GOLD Congress in Paris (August 31 – September 3, 2006) and the promotion of the new Graduate Student Member grade.

The SBC

Region 8 Student volunteers will be meeting in Paris in less than three months. The IEEE Region 8 Student Branch and GOLD Congress is by all means the biggest and most interesting student event in the Region. We are expecting many guests from outside our Region and we will also be joined by GOLD and WIE volunteers. We can safely predict that there will be some 250 participants at the Congress, and during the four days, the student branch leaders will network in work-

shops, training sessions and competitions, and enjoy many other fun activities and interact with other IEEE volunteers from all over the world. For fresh updates, see <http://ieee.org/sbc2006>.

GSM

By the time you read this, Graduate Student Members will have been identified in IEEE membership databases as a New Member Grade. Your 2007 membership card will distinguish between the two student membership grades. This will enable us to create better and more closely tailored member benefits for each. Rest assured, the student membership dues remain the same for both grades; in fact, we are currently developing new ideas for subsidising the student dues and improving the membership benefits. Note that GSMS will enjoy the privileges of both Student and Member grades.

IEEE Elections

In August and early September, Graduate Student Members will receive their voting ballots for the IEEE elections. Among other officers,



Ricardo, Marco and Michael in Vilnius, Lithuania.

we will be electing the 2007 President Elect, who will become the IEEE President in 2008. This year, Region 8 will have roughly 6,000 new voting members. Exercising your right to vote in the IEEE elections is very important. Regional directors, even IEEE Presidents, have been elected by a very small margin of votes, even as few as 20, so your vote really counts.

Activate!

There are many IEEE benefits you can access only via an active Student Branch. More than 50 Student Branches, Student Branch Chapters and Affinity Groups were founded over the past year

or so in Region 8. Equally important, many previously inactive Student Branches have sprung back to life.

Does your University have an active IEEE student branch? If you need ideas for your student branch activities, I am sure you can find many on these pages. If you have any questions/ comments, please contact us—your R8 Student Activities team. We are here for you, we'll be glad to help. Visit us online at <http://ieee.org/r8sac> or drop us a line at r8sac@ieee.org.

Share!

There is still time to introduce your friends to IEEE at a 50% discount. As soon as they

join, they can start enjoying IEEE services. The half-price first-year fee of US\$12.50 remains in effect until August. Also, for introducing your friends to IEEE, you get a small token of appreciation; just make sure your friends enter your name and member number as their recruiter on the online application form. For more information see <http://ieee.org/sgs>.

Mailing list

To stay up to date on what is happening with Region 8 Student Activities, subscribe to the Region 8 Students mailing list by sending an email to listserv@listserv.ieee.org with SUBSCRIBE R8STUDENTS in the message body.

Till next issue...

Marko Delimar
R8 Student Activities Chair
m.delimar@ieee.org

Region 8 Student Activities Committee

Marko Delimar, Chair, m.delimar@ieee.org
Ricardo Varela, Student Representative, phobeo@ieee.org
Michael Gloegl, Student Branch Coordinator, m.gloegl@ieee.org
Basak Yuxsel, Student News Editor, basak@ieee.org
Pilar Molina Gauda, Past Chair, pimolina@ieee.org
Martin J Bastiaans, Student Paper Contest Coordinator, m.j.bastiaans@ieee.org



Obafemi Awolowo University, Nigeria:

OAU's membership drive

IEEE OAU Student Branch recently held its first general assembly of 2006 on 18 February. The event, supervised by our branch counselor Dr MO Omoigui, was well attended by over 50 students drawn from various departments of the institution. It was an exciting session which served as a medium to congratulate Dr Omoigui on his

promotion to Senior Member of IEEE (SMIEEE).

During the assembly, Dr Omoigui reiterated the importance of joining IEEE, stating the relevance of the organisation to students' respective careers. He encouraged students to become members and be active both in the local branch and in the international community.

University of Sevilla, Spain:

Workshops strengthen links

BETWEEN 1–3 March, the first edition of our Introductory Workshops on Engineering took place. These workshops were the result of a joint effort between the Student Branch at the University of Sevilla and other university societies with related interests, including: ESIBot, SUGUS and TIR (focusing on robotics, free/open source software and computer networks respectively).

The workshops were arranged to achieve three objectives: to show students what they will be able to do with the knowledge acquired during their career, to set strong links between the different technical societies



in our university and to get Spanish IEEE SBs together to share knowledge and experiences.

The three-day event hosted conferences and practical workshops by leading companies, national top researchers and students from Spanish Student Branches about

VoIP technologies, robotics, biomedical engineering, software engineering, wireless technologies and a lot more.

It proved a unique and very enriching experience that we will certainly try to repeat next year.

Salvador Gomez Carretero
info@ieeesb.us.es



Tomsk Student Branch, Russia:

Tomsk bowled over by SIBCON success

THE 6TH IEEE Siberian Conference on Control and Communications SIBCON was held on 21–22 October 2005 in Tomsk (Russia). The event was organised by the Tomsk Student Branch and GOLD Affinity Group of the IEEE Siberia Section, and sponsored by the Russian Foundation for Basic Research and IEEE.

Topics included Mathematical Simulation and Modelling in Modern Technologies of Control and Information Processing; the Basic Problems of Communication and

Control Theory, Cryptology; and Digital Video and Image Processing. There was also a special session on Materials for Electron Devices and X-Ray Detectors.

The technical programme consisted of the paper presentation and discussions, and the social programme included an excursion, a banquet and bowling. We cordially invite you and your colleagues to the next SIBCON in 2007. Our call for papers is at www.comsoc.org/tomsk.

Oleg Stukach
tomsk@ieee.org



Aalborg University, Denmark:

Student Branch launched

AALBORG UNIVERSITY, Denmark, hosted an event that officially launched the IEEE Student Branch of Aalborg University on 8 February. The election of the first executive committee took place later that day. More than 40 members of the month-old Student Branch participated in the voting.

Now approved by IEEE, the Student Branch has begun organising events for

its members and the overall academia. The main goals of the branch are to establish a communication bridge between the IEEE and students in Aalborg University, and provide a study platform and to create good collaboration between our members and the industry.

More details can be found at <http://ieee.aau.dk/sb>.

Daniel VP Figueiredo
dvptf@kom.aau.dk

The articles here represent a tiny selection of the very large number of excellent Student Branch reports we received for this issue. You can read the rest online at our new *Region 8 News* webpage at www.ieee.org/r8.

Scientific literacy test

Please send your answers by email with the subject line: *R8 News June Quiz*

by Levent Sevgi of Dogus University, Istanbul
(lsevgi@dogus.edu.tr)

1) There is a small negative correlation between death rates per thousand people and divorce rates per thousand marriages in western Turkey. What do you think this statement tells us; "more DIVORCE less DEATH", "no WOMAN no CRY" or something else? What do you think the cause may be?

2) Fill in the blanks with the proper words.

(a) How, (b) Science, (c) Technology, (d) Why.

_____ asks the question of _____, but _____ concerns with the answers of _____.

3) Fill in the blanks with the proper word.

(a) confirmation, (b) assumptions, (c) approximations, (d) falsification, (e) hypotheses

Today, the most important criterion of the scientific status of a theory is its _____.

4) What do you think is the difference between a fact and scientific fact?

5) Frequency analysis is one of the key issues in the IEEE Society. Never forget that once you use computers, you move into a non-physical, synthetic environment. Numerically, discrete or fast Fourier transformations (DFT or FFT) are used to obtain the frequency contents of a time signal and these are totally different from the mathematical definition of the Fourier transform.

N samples of a time signal recorded during a finite duration of T with a sampling period of Δt ($N=T/\Delta t$) can be transformed into N samples in the frequency domain between $-f_{\max}$ and $+f_{\max}$.

Which one is true?

(a) $f_{\max}=1/2\Delta t$, $\Delta f=1/T$
(b) $\Delta t=T/N$, $\Delta f=1/2T$
(c) $\Delta t=1/2f_{\max}$, $\Delta f=1/\Delta t$
(d) $\Delta t=1/N\Delta f$, $T=1/N\Delta f$

Answers to last issue's literacy quiz

(see *Region 8 News* March 2006 page 10 for the questions, or find them on our webpage)

1. Method: Any way of problem solving. Scientific method: the way of problem solving which possesses the criteria of objectivity, systematicity, reliability, repeatability, comprehensiveness, precision, and which applies falsification in the first place.

2. Match the words and explanations:

Rationalism: Understand or derive a conclusion from rational thoughts alone.

Empiricism: Understand or derive a conclusion from a careful observation.

Hypothesis: A scientific claim which is to be subjected empirical tests.

Law: A scientific statement which is believed to be true beyond any reasonable doubt.

Induction: Arrival of a law or a theory, based on the facts gained from experiments.

3. Match the words and explanations:

Accuracy: Closeness of agreement between a measured/computed value and a true value.

Resolution: Smallest physically indicated division that an instrument displays or is marked.

Sensitivity: A small change in electrical / physical signals ratio.

Precision: Fluctuations in the values of a

physical quantity obtained by repeated measurements.

Uncertainty: Potential deficiency due to a lack of information.

4. Match the words for 'unethical conduct' in scientific publication:

Fabrication: To produce, report or publish data, which are not obtained in the research.

Falsification: To make alterations on research data in a manner leading to different results.

Plagiarism: To use someone else's ideas, data, or texts without giving appropriate credit, including reference, permission and acknowledgment.

Duplication: To publish (or submit) the same research results in more than one journal.

5. It might be any value between 16.7 – 17.9 % last year, and 15.8 – 17.0 % this year. Therefore we can not comment on either it is decreasing or increasing.

6. Total relative error is the sum of individual relative errors for multiplicative combination of two measurements: Distance = $80 \times 5 = 40$. Distance Error = $40 \times ((0.05/5) + (0.5/80))$. Total distance = Distance plus/minus Distance Error

Reminder calendar

Workshops, conferences & symposia in Region 8

JUNE

Roedunet 2006

5th Roedunet IEEE International Conference 2006
Sibiu, Romania
1–3 June 2006
roedu2006.ulbsibiu.ro

ELMAR-2006

48th International Symposium on Multimedia Signal Processing and Communications
Zadar, Croatia
7–10 June 2006
www.elmar-zadar.org

CAMAD 2006

Computer Aided Modeling and Design of Communication Links and Networks
Trento, Italy
8–9 June 2006
dit.unitn.it/~camad06

ICC 2006

2006 IEEE International Conference on Communications
Istanbul, Turkey
11–15 June 2006
www.icc2006.org

PMAPS2006

9th International Conference on Probabilistic Methods Applied to Power Systems
Royal Institute of Technology (KTH), Stockholm, Sweden
11–15 June 2006
www.PMAPS2006.org

RAAD 2006

15th International Workshop on Robotics in Alpe-Adria-Danube Region
Balatonfüred, Lake Balaton, Hungary
15–17 June 2006
www.bmf.hu/conferences/raad2006

AHS-2006

1st Conference on Adaptive Hardware and Systems
Istanbul, Turkey
16–18 June 2006
ehw.jpl.nasa.gov/events/ahs2006

EMBS Summer School

7th IEEE EMBS International Summer School on Biomedical Imaging
Berder, France
17–25 June 2006
ieeess.enst-bretagne.fr

PARA 06

Workshop on State-of-the-art in Scientific and Parallel Computing
Umea, Sweden
18–21 June 2006
www.hpc2n.umu.se/para06

ISCC 2006

11th IEEE Symposium on Computers and Communications
Pula-Cagliari, Sardinia, Italy
26–29 June 2006
www.comsoc.org/iscc/2006

ICPS06

IEEE International Conference on Pervasive Services
Lyon, France
26–29 June 2006
www.ens-lyon.fr/LIP/RESO/icps2006

BIO SIGNAL 2006

18th Biennial International EURASIP Conference
Brno, Czech Republic
28–30 June 2006
bs2006@feec.vutbr.cz
www.dbme.feec.vutbr.cz/bs2006.html

TESLA 2006

International Scientific and Professional Meeting: The Life & Work of Nikola Tesla
Zagreb, Croatia
28–29 June 2006
www.hatz.hr/TESLA

REV2006

3rd International Symposium, Remote Engineering & Virtual Instrumentation
Maribor, Slovenia
29–30 June 2006
www.online-lab.net/rev

ISCE 2006

10th IEEE International Symposium on Consumer Electronics
St Petersburg, Russia
29 June – 1 July 2006
www.isce2006.ru

JULY

DEBS'06

5th International Workshop on Distributed Event-Based Systems
Lisbon, Portugal
2–3 July 2006
www.cs.waikato.ac.nz/~hinze/DEBS2006

WSEAS 2006

10th WSEAS International Conference on Communications
Vouliagmeni, Athens, Greece
13–15 July 2006
worldses.org/conferences/2006/greece/iccom

MEDSIP-2006

3rd International Conference on Advances in Medical Signal and Information Processing
Glasgow, Scotland
17–19 July 2006
conferences.iee.org/medsip

SAMOS 2006

2006 International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation
Samos, Greece
17–20 July 2006
samoss.et.tudelft.nl/samos_vi

AUGUST

EPE-PEMC 2006

12th International Power Electronics and Motion Control Conference
Portoroz, Slovenia
30 Aug – 1 Sep 2006
www.ro.feri.uni-mb.si/epe-pemc2006

SEPTEMBER

ICEM 2006

17th International Conference on Electrical Machines
Chania, Crete Island, Greece
2–5 September 2006
www.ntua.gr/ICEM2006

UPEC 2006

41st International Universities Power Engineering Conference
Northumbria University, Newcastle-upon-Tyne, UK
6–8 September 2006
www.upec2006.or

ECWT 2006

European Conference on Wireless Technology
Manchester, UK
10–12 September 2006
www.eumw2006.com

IWSSC 2006

2nd International Workshop on Satellite and Space Communications
Leganes-Madrid, Spain
14–15 September 2006
iwssc2006.tsc.uc3m.es

PWC 2006

11th IFIP International Conference on Personal Wireless Communications
Albacete, Spain
20–22 September 2006
www.i3a.uclm.es/pwc06

eChallenges e-2006

Barcelona, Spain
25–27 October 2006
www.eChallenges.org

7th World TPV Conference

Thermophotovoltaic Generation of Electricity
El Escorial, Madrid, Spain
25–27 September 2006
www.ies.upm.es/TPV7/index.html

ICL2006

9th International Conference on Interactive Computer aided Learning
Villach, Austria
27–29 September 2006
www.icl-conference.org

OCTOBER

VALUETOOLS 2006

First International Conference on Performance Evaluation Methodologies and Tools
Pisa, Italy
12–14 October 2006
www.valuetools.org

ITRE 2006

4th IEEE International Conference on Information Technology: Research and Education
Tel Aviv, Israel
16–19 October 2006
www.afeka.ac.il/itre2006

NOVEMBER

IECON'06

32nd Annual Conference of the IEEE Industrial Electronics Society
Paris, France
7–10 November 2006
www.iecon06.iut-amiens.fr

Electricity 2006

24th IEEE Conference in Israel
Incorporating: CCNSI 06 Consumer Communications and Networking Symposium 2006
Eilat, Israel
15–17 November 2006
www.eng.tau.ac.il/~ieeel/events.html

DECEMBER

eScience 2006

2nd IEEE International Conference on e-Science and Grid Computing
Amsterdam, Netherlands
4–6 December 2006
www.escience-meeting.org/eScience2006

APRIL 07

ICDE 2007

23rd International Conference on Data Engineering
Istanbul, Turkey
16–20 April 2007
www.srdc.metu.edu.tr/webpage/icde

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