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Portugal Section celebrates 25 years

TO COMMEMORATE the founding of IEEE Portugal Section 25 years ago, a social/cultural event was organized, with all IEEE past and present volunteers invited. The event took place on 21 October at the National Society Headquarters in Lisbon. The Ordem dos Engenheiros was represented by the Chairwoman of its Electrical Engineering Society (Colégio) Professor Teresa Correia de Barros, an IEEE Fellow member and also a past IEEE volunteer.

The section was founded in 1981 by a committee led by Prof Medeiros Silva, with 82 members. Ten years later, it had 312 members, 200 of them students. Presently, the Section boasts 975 members, including 245 students. The first Student Branch was founded in 1986. Presently, the Section has eight Student Branches around the country. The first Chapter was founded in April 1994 by the late Professor Inês Castro Simas. Today, the Section has 11 Chapters and Joint Chapters, six founded in 2005.

Joao Costa Freire

Realities and evolutions

New Region 8 Director targets membership growth

REGION 8 is IEEE's largest Region in terms of area, covering Europe, the former Soviet Union, Middle East and Africa. Its population surpasses one billion inhabitants, and its global GNP is comparable to that of the USA. The Region possesses a high potential for membership growth. So how shall we develop the membership in the future?

Student and GOLD membership development have been hugely successful in recent years (well done to everyone involved!) so let us continue on the right track. The percentage of young members is above average in Region 8, even though the population is mostly aging. The Paris Student Branch Congress held at the beginning of September

2006, in conjunction with GOLD and WIE meetings, was a great success.

Region 8 should also be a model for electronic communications, and all of the 50 or so Sections should maintain efficient websites containing up-to-date information on their achievements and projects. This is particularly important for Region 8, since it is not easy to travel such long distances to meet face to face. The same goes for the specialized sub-committees and officers of the Region. The

redesign of the main Region 8 website is already advanced, and members are welcome to comment and propose further improvements in order to make our site best in class.

Education is considered as a key project by IEEE, and it has developed many courses and evaluation packages. Language may be an issue: Region 8 has probably the largest diversity of languages among IEEE regions in the world.

IEEE is famous in the industry for its standards. IEEE-Standards Association wishes to rely upon IEEE members everywhere in order to design worldwide standards. That means members in Region 8 must become more involved in the IEEE-SA standards development process.

Region 8 regularly holds three conferences: Eurocon in Warsaw, Poland (September 2007); Africon in Windhoek, Namibia (September 2007); and Melecon in Ajaccio, Corsica (2008). Besides these events, every year there are many international conferences held by IEEE societies in Region 8. This is a great opportunity

to improve the way IEEE is seen by the scientific and engineering communities of our countries. Region 8 will try to bring the information about all these conferences to the attention of Sections and our region volunteers as early as possible. Conferences are an important incentive in enrolling new members.

The main efficiency of the regional development relies on local volunteers. Especially in such a Region where each and every country owns a strong culture. We probably have to work more closely with the national societies. Common meetings can be organised, common awards can be designed, common actions to involve industry can be processed.

In conclusion, I would like to underline the key contribution of volunteers to the success of IEEE world wide. I to invite you to help your local Sections and Chapters.

Jean-Gabriel Remy
 IEEE Region 8 Director



Job Site opens for business at CeBIT

LAUNCHED A year ago, the IEEE online Job Site is already off to a good start in 2007, with its first presence at CeBIT, Hannover during 15-21 March. Come visit us in CeBIT's Job & Career Market - Hall 006, Stand E35

The Job Site has also recently launched an incentive scheme to encourage IEEE members to visit and get

more advertisers involved. Any company referred by an IEEE member qualifies for a free posting. IEEE members can, of course, use the Job Site free of charge.

Contact Marko Delimar m.delimar@ieee.org or Mike Buryk m.buryk@ieee.org for details.

Visit the Job Site itself at <http://careers.ieee.org>.



150th anniversary of Heinrich Hertz

HEINRICH RUDOLF Hertz (22 February 1857 – 1 January 1894) was the German physicist and mechanician for whom the hertz, an SI unit, is named. In 1888, he was the first to demonstrate the existence of electromagnetic radiation by building an apparatus to produce UHF radio waves.

Through experimentation, he proved that transverse free space electromagnetic waves can travel over some distance. His achievement confirmed the predictions made by the equations of

James Clerk Maxwell, who suggested that producing electromagnetic waves in air was possible because electric oscillations would produce waves travelling at the speed of light.

Many events are planned throughout the world to honour Hertz. The IEEE UK&RI Section Life Members group is cooperating with the IET for the IET History Group's 2007 Summer Weekend Meeting at Sussex University on 6–8 July 2007. For more information, go to www.ieee.org.uk and click 'History'.

New membership development hits a record high

MEMBERSHIP DEVELOPMENT has a record high – more than 60,000 in Region 8!

Africa meeting

In Cape Town, South Africa, on 25–26 November 2006, volunteers from South Africa, Namibia, Swaziland, Lesotho and Botswana, and our Regional Officers Boris Levitas and Aleksandar Szabo and local organizer Saurabh Sinha, met for a volunteer training workshop. We can expect to have very soon new Sections/Subsections in this area.

Workshops

Three Volunteer Training Workshops are planned in 2007.

Recruitment

Beginning in September, the payout for recruited professional members (not students) was raised from US\$5 to \$15 per member. Recruiters (including student members) have the option of using their reward vouchers to pay for

IEEE products or services, including the membership renewal, or they can use the vouchers for a donation to the IEEE Foundation.

To this end, you can announce and provide information on the Member-Get-A-Member (<http://iee.org/mgm>) and Student-Get-A-Student (<http://iee.org/sgs>) Programs at Section, Student Branch and Chapter Meetings and Conferences.

The reward is more than a \$15 IEEE credit voucher, it's a bigger organization with better connections into industry and community. If each of us recruited just one new member, we would double our size in one year! But let's try to increase our membership by 5 or 10%. Remember, without membership development, we cannot build the IEEE of tomorrow.

More detail on membership benefits can be found at www.ieee.org/web/membership/benefits.

Aleksandar Szabo, IEEE Region 8 MD Chair

Transactions sell at auction for exotic price

R8 NEWS attended a rather special Auction – Landmarks of Science at Christie's London sales room on 13 December 2006. Among the 150 lots were 20 'Electricity, Communications and Transport' items. These included:

- Autograph letters by Alessandro Volta 1755, describing the concept of the 'Electrophore' – a basic reservoir of static electricity.
- An original transmission of a facsimile 1863 by a 'Pantelegraph', the first functional fax system invented by Giovanni Caselli (1815-1891).
- Publications by Aleksander S Popov, including the first published account of a commercially practical radio receiver, 1896.
- A volume of the IEEE Transactions on Communications Vol COM-22 No.5 May 1974.



Lot 141 was the first publication of a paper by engineers Cerf and Kahn describing the creation of an international network of computer networks (the Internet, which the authors invented around 1973), ARPANET. This single volume sold for £3,600 – about €6,000.

The major artefact which was offered was a box containing 23 light bulb specimens and prototypes made by eight early inventors.

The Thomas Alva Edison Trial evidence for US Patent 223,898. This collection was used as courtroom evidence on 8 July 1890 in the Thomas Alva Edison Trial for US Patent 223,898.

One of the specimens (No.20) was made by Edison in Menlo Park about 1890 with a single wire hairpin bamboo filament (Cathode) and separately connectable single platinum filament (Anode). Edison was testing his theories of electron activity, and the design may be his first attempt to 'catch' the accelerated electrons.

I'd like to hear from any readers who have similar experiences with publications and artefacts related to our profession.

*Roland Saam
r.saam@ieee.org*



New leader for Lifers

PETER HILL, IEEE Life Senior Member, has been appointed 2007 Region 8 Life Members Coordinator. Peter is Professor Emeritus & Academic Consultant at Cranfield University, Defence College of Management and Technology in the UK. He is an active IEEE volunteer, the immediate Past Chair of the IEEE UK&RI Communications Chapter; and currently he leads the UK&RI History Affinity Group.

The photo above shows the 24 January meeting of the IEEE UK&RI Life Members Affinity Group. Present were (left to right) Bob Winton, Martin Bolton, Peter Hill (standing at flipchart), Tony Davies, Roland Saam and Richard Trim.

Edinburgh launches Maxwell award

THE IEEE and the Royal Society of Edinburgh, Scotland have created the IEEE/RSE Wolfson James Clerk Maxwell award to recognize contributions that have had an exceptional impact on the development of electronics and electrical engineering or related fields. The award is named in honour of the 19th century Scottish mathematician and physicist James Clerk Maxwell, who laid the foundations of electromagnetic wave theory, radio propagation, microwave techniques, and radio communications.

The annual award includes a US \$20,000 honorarium, a gold medal and a certificate. Funding is donated by Wolfson Microelectronics, an Edinburgh company which makes high performance mixed-signal semiconductors for digital consumer electronics applications.



IEEE President Michael Lightner (front left) at the signing ceremony

Applications are invited from anyone who has made new significant contributions to the electronics or electrical engineering. Selection is by a joint IEEE/RSE committee and administration is by the IEEE Awards Board. Up to three individuals may share the award. The winner is expected to visit Scotland to make a presentation about their work. For additional information go to www.ieee.org/portal/pages/about/awards/sums/Maxwell.html.

Clementina Saduwa – may she rest in peace



Clementina – enthusiasm, energy and dedication

AS WE went to press on 30 January 2007, news came of the death of Clementina Saduwa, our representative in IEEE Women In Engineering group.

She was attacked by an armed band of robbers while driving home from work in her native Nigeria.

Clementina graduated in 2002 from University of Nigeria, Nsukka in Electrical Engineering where she

also initiated the IEEE Student Branch. She began her pace-setting career in telecommunications working as product manager for Ericsson, Nigeria.

All of us who knew her are filled with grief and sadness. Clementina was familiar to many of us through her service as leader in several IEEE positions. We remember her bright smile and cheerfulness, her able

presentations promoting the role of women in engineering, her experience and leadership in committee. We will miss her greatly. Our sympathy goes out to her family, her husband and daughter.

A full tribute will appear in the next issue, and our region web site www.ieee.org/r8 will have further links describing her life and achievements.

History activities get official backing

ON 1 January 2007, IEEE Region 8 appointed its first regional history activities coordinator: Jacob Baal-Schem j.baal.schem@ieee.org. The intention is to develop activities related to the history of electro-technology.

Examples of this initiative to boost members' interest include:

1. A special session on the history of electro-technology will be held during the EU-

ROCON 2007 in Warsaw on 9–12 September 2007. The goal of this session will be to generate and disseminate knowledge about historical developments in Region 8. The EUROCON website is at <http://eurocon2007.isep.pw.edu.pl>

2. Active cooperation and support for other history of engineering and science-related activities, with engineering societies, acad-

emies, university programs, museums, etc.

3. Promotion of the Oral Histories project which was started in IEEE United Kingdom & republic of Ireland section in 2004. It is to be extended through the region using a training program (*How to do Oral Histories* by Peter Hill and Rik Nebeker) and by dedicated History web pages on our web-site www.ieee.org/r8.

4. Capturing our own history – that of the growth of the engineering and computing profession in our region.

The next meeting of the History Advisory Council will be at the R8 Committee meeting, Sofia, Bulgaria 13–15 April 2007.

Contact for further information in the UK&RI is Peter Hill (p.c.j.hill@cranfield.ac.uk) or Roland Saam (r.saam@ieee.org).

New GOLD team in place for 2007

HELLO GOLDIES and Region 8 members!

This year there is a new volunteer group for GOLD activities. Three of us compose this team: Pilar Molina Gaudo, R8 GOLD coordinator, together with Gerald Anleitner and Eva Gutsmiel. Also, to support us, we have our "boss", the Membership Activities Vice Chair, Marko Delimar, who being a GOLDie himself knows very well the importance of GOLD activities in the sections.

We have a difficult task ahead if we really want to make it better than our predecessor, Rolf Remshardt. Under his leadership GOLD activities have bloomed in the past two years: For example, in 2006 the Regional GOLD Congress took place in conjunction with the Student Branch Congress in Paris. Also during his term, a

seminar was held in Munich with a bunch of volunteers to develop further GOLD activities in Region 8.

We really want to go on like that and even try to improve things further.

Our plans for this year are among others:

- Ask sections to welcome their recent GOLD members.
- Establish regular online meetings with GOLD chairs and volunteers to discuss ideas, success stories and to provide support.
- Share the information with you through the R8 News, the GOLD Newsletter and through our web site (www.ewh.ieee.org/reg/8/gold).
- Hold a successful GOLD congress in 2008.
- Meet and discuss with other GOLD coordinators from other regions.
- Come up with further



Left to right: Pilar, Gerald and Eva

projects like these to share with you in future R8 News.

Of course, we appreciate your ideas, your support

is more than welcome, so please, feel free to contact us and learn more at our website.

in brief

History session at EUROCON 2007

THE REGION 8 History Advisory Council (HAC) has initiated holding a special session on 'The History of Electrotechnology' at the IEEE Region 8 EUROCON conference in Warsaw, Poland, on 9–12 September 2007. The aim of the session is to generate and disseminate knowledge about historical developments in Region 8. Members are urged to participate. Updated information is available at <http://eurocon2007.isep.pw.edu.pl>.

Sweden hosts age workshop

'YOU AND the Future – a working Retirement: Fulfilling Lives for an Aging Population' is the title of a workshop to be held in Stockholm, Sweden, on 20–21 April 2007. The workshop is supported by the IEEE Foundation, the IEEE Section, and the Swedish Association for Graduate engineers. The steering committee Chair is Dr Juan Hernandez SMIEEE who is also Chair of the IEEE Sweden Section Vehicular Technology and Communications Chapter.

Malta Section is given go-ahead

AT IEEE Regional Activities Board meeting on Saturday 18 November 2006, the petition for establishing IEEE Malta Section was approved.

AFRICON 2007

www.africon2007.co.za



26–28 September 2007
Windhoek, Namibia

Organised by IEEE South Africa Section in partnership with the Polytechnic of Namibia





Get ready for a hectic and rewarding 2007!

OUR FIRST issue of 2007 introduces our new Region 8 Director for 2007–8, Jean-Gabriel Remy. JGR brings us his lifetime of experience as an engineer and businessman. He sets out his vision of the great potential for increasing the value of IEEE to our region. Please read his story, and respond to his challenge – ‘How shall we develop our membership?’

For new readers of this newsletter (there are 5,000 more members than last year!) let me say that the strength of IEEE is that we are a professional organisation mainly run by volunteers. In fact there are no employees in Region 8. The people you read about in these pages who run section meetings, student branches, workshops, conferences, edit newsletters, create web-pages, etc do it without pay for the benefit of our profession. Their reward comes from the satisfaction of doing things which strengthen our Institute, and personally from association with fellow engineers. To get involved, talk to someone in your section or chapter.

Revamped website

ALONGSIDE THIS column are the Committee officers and elsewhere in this news you will find some of their reported activities. In the limited print space we can only report a tiny part of the IEEE meetings, technical and social events. On the web, many more events can be recorded. Please take a look at Region 8’s new website (www.ieee.org/r8) which was redesigned by a team led by Thomas Watteyne. Our

expanded website now has Joomla Content Management software which makes it easier to update. Fresh material will help open up your experience of joining in the considerable IEEE activity in our region.

IEEE at CeBIT

A FIRST! For the first time IEEE will be exhibiting at the world’s largest trade fair for digital IT and telecommunications, CeBIT in Hannover, Germany 15–21 March 2007. Copies of *IEEE R8News* and *IEEE Spectrum* will be given away to visitors to the IEEE Job-Site at CeBIT’s Job & Career Market – Hall 006, Stand E35.

Also this issue

DID YOU know that a single copy of a May 1974 IEEE Transactions on Communications was sold for £,3600 (about €6,000)! So find a good home for your old copies of IEEE publications – the world will want them! Read about my visit to a London auction at Christie’s.

Elsewhere in this issue read how Czech GOLDies make 1+1=3. Follow the success of St Petersburg’s Technical English program set up by Alex Mikerov. Check your skill in Levent’s Technical Literacy Quiz. And try to identify the mystery object from Paris in this month’s Photo Quiz.

In April Roland will tour Japan with plans to visit museums and meet with engineers who are keen on history of electrical engineering and computers. Watch for a report in the June issue!

Roland Saam and Basak Yuksel (co-editors)

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REGION 8 OPERATING COMMITTEE

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

EMAIL ADDRESSES OF REGION 8 COMMITTEE OFFICERS 2006

Officers and Vice Chairs

Director
Jean-Gabriel Remy
jean-gabriel.remy@ieee.org

Past Director
Baldomir Zajc
b.zajc@ieee.org

Secretary
Christian Borgert
c.borgert@ieee.org

Treasurer
Brian Harrington
b.harrington@ieee.org

V/C Membership Activities
Marko Delimar
m.delimar@ieee.org

V/C Student Activities
Martin J Bastiaans
m.j.bastiaans@ieee.org

V/C Technical Activities
George Paunovic
g.paunovic@ieee.org

Appointed Members

Awards & Recognitions
Victor Fouad Hanna
victor.fouad@ieee.org

Counsellor to the Director
Christine Nora
c.nora@ieee.org

Section Development
Vlatko Stoilkov
stoilkov@ieee.org

Section Presentation
Baldomir Zajc
b.zajc@ieee.org

Student Representative
Michael Gloegl
m.gloegl@ieee.org

Voluntary Contribution Fund
Christine Nora
c.nora@ieee.org

Membership Development
Rolf Remshardt
r.remshardt@ieee.org

Professional Activities
Charles Turner
c.turner@ieee.org

Editors, Region 8 News
Roland Saam
r.saam@ieee.org
Basak Yuksel
basak@ieee.org

Electronic Communications Coordinator
Marko Delimar
m.delimar@ieee.org

Section Congress 2008
Tony Davies
tonydavies@ieee.org

GOLD
Pilar Molina Gaudo
pimolina@ieee.org

Women In Engineering
Maryam Al Thani
mthani@ieee.org

Life Members
Peter Hill
p.c.j.hill@cranfield.ac.uk

History Activities
Jacob Baal Schem
j.baal.schem@ieee.org

Chapter Coordinator
Gérard Capolino
Gerard.Capolino@ieee.org

Conference Coordinator
Francisco Sandoval
sandoval@dte.uma.es

Educational Activities
Charles Turner
c.turner@ieee.org

Industry Relations
Rami Al Mushcab
rami.mushcab@aramco.com

Standards Coordinator
David Law
David_Law@ieee.org

Information helpdesk

member-services@ieee.org



The Institute of Electrical and Electronics Engineers
3 Park Avenue, 17th Floor, New York 10016, USA

News & articles
r8news@ieee.org

Student News email
R8StudentNews@ieee.org

Advertising For rates and deadlines, contact the editor.

IEEE Region 8 website
www.ieee.org/r8

Editors
Roland J. Saam
r.saam@ieee.org
Başak Yuksel
basak@ieee.org

Editorial production
Alistair Dabbs
www.dabbsnet.com

Printing & mailing
IEEE Publications Dept.
Director: Bob Smrek
r.smrek@ieee.org

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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 news, articles and letters from any member of the IEEE. Please send these to the editor as plain text by email to r8news@ieee.org, remembering to put *Region 8 News* in your email subject line. If sending photos or graphics, please make sure they are high-resolution files. Read our full guide to writing and submitting articles at www.ieee.org/go/r8news.

Deadlines for upcoming issues

June 2007 issue.....deadline: 1 April 2007
September 2007 issue.....deadline: 1 July 2007
December 2007 issue.....deadline: 1 October 2007
March 2008 issuedeadline: 1 January 2008

ICC-2007 pulls in thousands

THE PRESTIGIOUS IEEE International Conference on Communications, ICC 2007, will be held in Glasgow, Scotland on 24–28 June 2007. IT will bring together some 1,500 engineers, designers and communications specialists, as well as leading industrialists, and key decision makers from companies and governments.

A key innovation at the Conference is the inclusion of a CEO forum to share their vision of the future. Among the top industrialists invited are: Arun Sarin (CEO Voda-

fone Group), Patricia Russo (CEO Alcatel-Lucent), Ben Verwaayen (Chief Executive BT), Sanjiv Ahuja (CEO Orange) and Niklas Zennstrom (CEO Skype).

Tariq Durrani, Executive Chair of ICC 2007, said: "We look forward to welcoming communications researchers and practitioners from across the globe to Glasgow in June 2007 to see and discuss the latest trends in communications technology, and also to enjoy the many attractions that Glasgow and Scotland have to offer."

More information can be found at the conference website: www.ieee-icc.org/2007.



Tariq Durrani and Sheila Forbes, on either side of the distinguished Stanford professor Tom Kailath, the recipient of the 2007 IEEE Medal of Honor, during IEEE Globecom 2006 in San Francisco



Czech GOLD pursues informal working

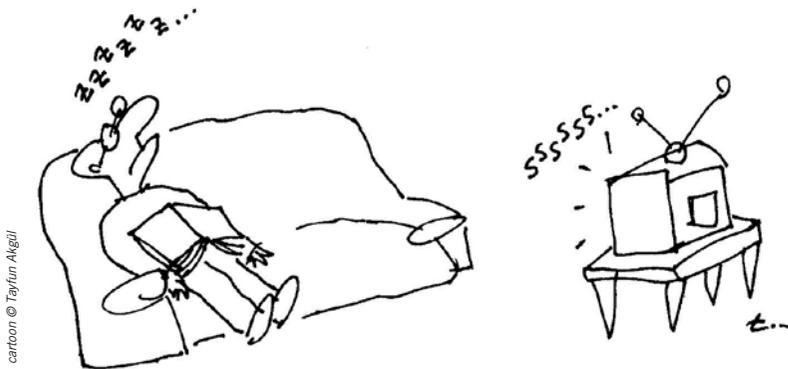
THE FIFTH joint meeting of Czechoslovakia IEEE GOLD members and students took place on 9 November 2006 at the Faculty of Electrical Engineering, Czech Technical University in Prague.

Dr Petra Halířová spoke on the topic 'Teambuilding and Synergy, or how to pull together'. The aim of the talk was to show the possibilities of team dynamics, i.e. how to create a functional net of informal working relations. Then the speaker introduced the team roles that characterize our individual forms of activity. The phenomenon of synergy was emphasized.

The highlight of the meeting was a management

scenario. We had to decide on the order of the need for particular items available to us as a team of mountaineers before a hard descent from a steep crag in the High Tatras. The scenario showed us that in some cases the results of team work are better than the results of individuals working alone: one plus one can sometimes be equal to three. The scenario and the talk led on to a discussion supported by refreshments and good wine. The discussion continued almost until the university buildings were due to be locked up for the night.

*Jan Machac
machac@fel.cvut.cz*



cartoon © Taylor Anjali

Region 8 relaunches website with services

AFTER A few months work by the Region 8 Web Task Force, the new Region 8 site (www.ieee.org/r8) was launched on Monday 15 January 2007. Based on a Joomla Content Management System, it offers lots of new services such as authentication at user level, a calendar plug-in and easy-to-update content. Soon we will add other services such as tutorials, Frequently Asked Questions and a Forum.

We invite you to register at the site. This will allow you to access all parts of the site and to appear on the users' list. Registered user can also submit new calendar events. The calendar lists R8 conferences, committee meetings and other major R8 events.

To add an event, you need to register, log in, and simply follow the 'Add New Event' link under the calendar under the Main Menu.

Major events can also be advertised online as News items. These are usually some lines of text, a picture, and a link to the corresponding website. News items can be added by registering, and following the "submit news" link in the user menu.

In early February, we'll be mailing out an electronic newsletter (*R8 Electronic Gazette*) to all Region 8 members using IEEE e-Notice. Your contributions and comments are most welcome.

*Thomas Watteyne
IEEE R8 ECC 2007*

Professional activities in R8

THE MOST important issues for IEEE members in Region 8 are those closely related to engineering employment, such as careers, professional development and job-seeking. From the moment of graduation from university, all the way to retirement, whether working for a company, in academia, government, etc., or as an independent consultant, the support and advice of your peers and colleagues are an invaluable asset. Industry has changed dramatically over the past decade, presenting engineers especially with tough challenges in a constantly changing work environment.

IEEE has invested substantial resources, especially in the USA, to provide products and services, in both the technical and the non-technical professional skills area, to help members attain their career goals. In Region 8 we are committed to emulate IEEE-USA by delivering the benefits enjoyed by US members. In 2007 we plan to expand the excellent work begun last year by Gerald Anleitner and others, by working with the GOLD and Student Activities groups to

target young engineers. For example, the IEEE Job Search website is now available to Region 8 members and employers.

Our principal aim is to develop Professional Activities on a local basis, which implies that Sections and Chapters should work together and appoint a PA officer. Why not volunteer your services for this vital job? Centrally, the Region will continue to offer workshops on leadership and project management skills, together with lectures and other events on employment issues.

In the last *Region 8 News* we announced the plan for an electronic newsletter in 2007, devoted specifically to PA activities. We hope that you will be interested in becoming a subscriber and will also volunteer your services. We especially need help from experienced engineers who can act as mentors, give talks or take an active part in workshops. Full details of the 2007 program can be found on the PA website, via the Region 8 homepage.

*Charles Turner
c.turner@ieee.org*

'Young ÖVE' joins IEEE

THE ENGINEERING School of the Upper Austria University for Applied Sciences opened in 1994, specialising in traditional and environmental engineering. Graduates are highly sought after on the job market. There are currently 1160 students in the recently opened new building (pictured). Local business and industry are increasingly keen to cooperate with the school on research projects in the state-of-the-art laboratories.

Many specialists in Austria are members of a variety of networks in order to discuss specialist subjects with colleagues and find solutions to current problems more easily. One of these networks is the 'ÖVE' (the Austrian Association of Electrical Engineering for electrical and electronics engineers) and the other is the IEEE.

These two networks are being expanded at the engineering school in Wels. The 'Young ÖVE' and the 'IEEE Student Branch FH-Wels'

will enable Wels students to network with specialists in various fields of electrical engineering and electronics. They will also benefit from 'forums, lectures, seminars and company excursions organised by the Wels student network and supported by the ÖVE or the IEEE. These consortia also support students in the quest for specialist literature, publications and jobs.

"It is often very difficult for students and researchers to find specialists who are working on the same problems," said student advisor Mario Jungwirth. "Such networks enable them to make contact with like-minded people more easily. We are delighted to support the Young ÖVE and the IEEE Student Branch in Wels."



Tech event brings busy year to close



IEEE Booth at the E-Services symposium

IEEE SAUDI Arabia Section closed this year activities with a major technical event that attracted more than 160 participants from various government and private sectors.

In this year-end event the Industry Application Society (IAS) Chapter collaborated with Aspen Tech to deliver a presentation about Manufacturing Execution System applications currently in use in the industry. Professionals

from various Saudi Aramco departments and the local industrial companies attended this Technical Dinner meeting.

IEEE Saudi Arabia (East) Section also participated in a booth within the e-Services Symposium that was held on 12-13 December 2006. This was a major and unique event in which the IEEE Saudi Arabia (East) Section and the IEEE volunteers played a major role.



His Royal Highness Prince Mohammad Bin Fahd AL-Saud delivers the award to Nabil AL-Dabal

IEEE Saudi Arabia Section receives recognition award

IEEE SAUDI Arabia Section received a major boost to its reputation, when the Section was recognized by His Royal Highness Prince Mohammad Bin Fahd during an e-Services symposium held at the Le Meridien Hotel in Khobar on 11-13 December 2006.

The E-Services symposium is a unique event of its kind in Saudi Arabia where decision makers from the Government and the Industry join together with the professionals to share the plans and achievements in the e-Ser-

ices sector.

The 2006 e-Services Symposium was attended by over 1000 delegates from various government and public sectors. IEEE participated in the exhibition and held various technical presentations and supported the tutorial activities.

In 2006, IEEE conducted more than 15 technical Dinner Meetings and workshops, participated in three major symposiums and one international conference for the Gulf region.

UK&RI initiates histories project

IN 2004, the United Kingdom & Republic of Ireland Section started an Oral Histories initiative. This was based on the model from the IEEE History Center, whose program has been operating for many years with more than 200 oral histories and full transcripts available on the web.

The UK&RI initiative involved training five volunteers by a member of the History Center staff, oral histories expert Rik Nebeker in June 2004. Each oral history involves several sessions with the candidate, transcription of the audio results to text, review and check of the

transcript by IEEE historian Rik Nebeker, and follow-up questions and clarifications leading to a final text transcript which is then checked by the interviewed candidate. The entire process consumes about five days worth of work.

Six candidates have now been recorded, including Ralph Benjamin (information theory, defence engineering), Kenneth Slater (beam scanning radars), Cyril Hilsum (materials science) and DT Swift-Hook (alternative energy wind turbines). Transcripts are contributed to the IEEE History Center, and are available on its website.

Comms Chapters organize lectures

A DISTINGUISHED Lecturer Tour was organised by three Communications Society European Chapters (Greece, Spain and Portugal), last October.

Prof Hamid Aghvami, from King's College, University of London, UK, visited Athens, Madrid and Lisbon, from 19 to 22 October 2006, delivering a lecture on Heterogeneous Wireless Access Environment (In the context of end-to-end networking), which was attended by many colleagues - 74 in Athens, 21 in Madrid, and 43 in Lisbon.

Prof Aghvami is the Director of the Centre for Telecommunications Research from King's College, being well-known for his work in the area of mobile and wireless communications.

The talk presented the concepts of convergence, integration and inter-working of multiple heterogeneous radio access networks, discussed the associated degrees of coupling between these networks, and addressed the USA NSF initiative on Future Internet Design (FIND) as a means to re-invent the Internet architecture.

Luis M Correia

Croatia launches web site

IEEE CROATIA Section has launched a new website (www.ieee.hr) with information about IEEE and Section and Chapter activities.

Section and Chapter officers individually maintain web pages to keep members informed about news and events.

Sven Loncaric
IEEE Croatia Section Chair



Congratulations to Prof W Leonhard's 50th year of IEEE membership

Joint German Chapter meets at GE Global Research Garching

THE THIRD meeting in 2006 of IEEE IAS/PELS/IES Joint German Chapter was held on 26–27 October at GE Global Research Europe's facility in Garching, near Munich.

The opening social evening celebrated the 50th year of IEEE membership of Werner Leonhard, Technical University Braunschweig, shortly after his 80th birthday. In 1956, Prof Leonhard's first technical paper with the title 'Characteristic properties of magnetic frequency multiplier' was published. The chapter also honoured past chairman, Peter Magyar of Hella KG, for his IAS Outstanding Service Award.

The next day, Stefan Schröder of GE Global Research Europe welcomed all participants to the Research Center, and Jörg Stromberger told us about GE's history which started in 1900 in

Schenectady, New York. One of its best known researchers and inventors was Thomas A Edison.

Schröder presented the activities of the high power electronics laboratory. The design loop for such systems consists of the following repeated steps: analytic design, MATLAB/SIMULINK simulations, prototypes, measurements. Oliver Meyer reported on the activities of the hybrid and renewable energy systems laboratory, and Ralph Teichmann spoke about wind power and electrical technology.

All participants then took a guided tour of the research labs at Garching.

For further information please visit: www.ewh.ieee.org/tr8/germany/ias-pels.

Ingo Hahn

IEEE IAS/PELS/IES German Chapter

Seminar at FUTO

IEEE NIGERIA Section, Power Electronics Chapter, successfully held a seminar on 18 January 2007 at the Federal University of Technology Owerri (FUTO). The seminar was hosted by the Head of Department of Electrical/Electronic Engineering, Dr ENC Okafor. The Chair of IEEE Nigeria Section, Tunde Salihu, gave the keynote address.

The audience comprised of over 100 students and about 20 IEEE members



from the University and neighboring towns. Port Harcourt and Enugu were thrilled with the update of information on smart instruments, and other distributed control system technologies.

Gloria Chukwudebe

Recruitment drive in UK

ONE OF the main concerns of the IEEE is student recruitment and retention – a serious problem in attracting young new members from the universities and colleges and then keeping them as members after they graduate.

The UKRI Communications Chapter a few years ago found that 25–30 institutions in the UK were active in undergraduate telecommunications engineering as a first degree subject. A University Liaison Officer was appointed in each to run IEEE student activities. The idea was to organise at least two 'recruitment events' each year and for this they were to be given a small amount of money for operations and also a significant rebate on their ComSoc membership.

A final-year project prize and certificate is awarded in each university. The winners are decided by the departments concerned. Winners then join IEEE as student members.

Four years ago, a second award for best 'communications engineering' performance in the penultimate undergraduate year. The three prizes are:

- Penultimate-year prize: £100 and certificate for undergraduate students in a communications-related degree course.

- Final-year project prize: £100 and certificate awarded to the best final-year undergraduate telecommunications project.

- MSc project prize: £100 and certificate awarded to the best communications project at MSc level.

Peter Hill

UKRI Comms Chapter

Promoting IEEE at University of Bahrain

WITH THE aim to promote and create awareness of IEEE, the IEEE Bahrain Section, in cooperation with the Electrical and Electronic Engineering Department at University of Bahrain (UOB), held a presentation entitled 'IEEE: The Value of Membership' on 11 October 2006.

Wafeeq Ajoor, IEEE Industry Relations Officer (IRO), presented IEEE, its vision, mission, societies,

and current membership status. Then the audience was briefed about IEEE Bahrain Section and its activities. After that, the presentation was dedicated to illustrating the benefits and value of being a member of IEEE such as how this membership can enhance professionalism and advance engineer's career. A number of faculty members and students attended.

Wafiq Ajoor



Milestone for Weizmann

THE WEIZMANN Automatic Computer (WEIZAC), built at the Weizmann Institute of Science in Rehovot, Israel in 1954–1955, has been recognized by IEEE as a Milestone in Electrical Engineering and Computing. It was the first digital computer in the Middle East.

The plaque unveiling ceremony took place at the Weizmann Institute in Rehovot, Israel, on 5 December 2006. The event was hosted by the President of the Institute, Prof Daniel Zajfman, and IEEE President Michael Lightner (left and right in photo).

Jacob Baal-Schem



First technical English program is completed

During autumn 2006, Russia Northwest IEEE Section arranged the first Technical English Program (TEP) project granted by Region 8. Every week, 11 students learned Basic Electrical Engineering in two-hour tutorials.

All students were given a free textbook, *Schaum's outline of basic electrical engineering* from J.J.Cathey, SA.Nasar and some handouts.

Besides such tutorials students participated in the Region 8 Training Work-

shop 'Volunteers training, recruitment and retention' conducted in St Petersburg by Professor Kurt Richter from the Technical University Graz (Austria). During six hours they developed their leadership skills. All students obtained free workshop materials and Region 8 Certificate.

Our Section is looking forward to seeing a project impact to the IEEE activity in the area.

Alexander Mikarov
Russia Northwest Section
Vice Chair

Photo Quiz March 2007

WHILE VISITING the France National Library during summer 2006, we photographed one of the witnesses of audio history, which was a part of the collection illustrated in the library displaying rare treasures. The apparatus in the photo (*below*) is a device going back



to 1898. It was invented by a French clock and watch maker based on the work of the designer of the initial version. Even if the device seen here is an improved version of the original, it's named and patented with a different name.

Right, here are your questions...

- 1) Name this device.
- 2) Who invented it?
- 3) How does it work?

Please email your entry to R8News@ieee.org before 1 April with the subject line *Photo Quiz March 2007*.

Please include your name, membership number and postal address. The answers will appear in the next issue. The winner will receive a nifty blue IEEE t-shirt!

Test your scientific numeric literacy – once again!

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

I BOUGHT a new 4-digit digital MultiMeter with the specifications listed in the table shown on the right...

Can you answer the following four questions and explain how you arrived at your answers?

Send your entries to Levent Sevgi at lsevgi@dogus.edu.tr

Specifications of my handheld digital MultiMeter

DC Volts

Ranges: 300mV, 3V, 30V, 300V, 1000V
Accuracy: $\pm(0.75\%$ of reading + 3 Count)
Input resistance: Min 10M Ω

AC Volts

Ranges: 3V, 30V, 300V, 750V
Accuracy: $\pm(1.2\%$ of reading + 4 Count)
Max frequency 500 Hz

DC Current

Ranges: 300 μ A, 3mA, 30mA, 300mA, 10A
Accuracy: $\pm(1.5\%$ of reading + 5 Count)

Resistance

Ranges: 300 Ω , 3k Ω , 30k Ω , 300k Ω , 3M Ω , 30M Ω
Accuracy: $\pm(0.75\%$ of reading + 3 Count)

- (a) What do you say about the accuracy, resolution and sensitivity of this digital Multi-Meter?
- (b) What do you expect to see on the display if you want to measure a DC voltage source of 20V having an internal resistance of 5k Ω , and 150mV having an internal resistance of 1k Ω . What are resolutions, absolute and relative errors of these measurements?
- (c) What do you expect to see on the display if you want to measure a resistor of 75 Ω and 75k Ω ? What are absolute and relative errors of these measurements?
- (d) The resistance can also be measured using Voltage-Current method and Ohm's Law. The DC voltage across the terminals of and DC current through the 75k Ω resistor are 75V and 10mA respectively. What do you expect the total (propagated) error be in this resistance measurement if the Voltage-Current method and Ohm's Law is used?

Answers to last issue's literacy quiz

The full answers to the scientific numeric literacy quiz from *Region 8 News* December 2006 can be read online at www.ieee.org/go/r8news. Well done to Adekunle Quadri Adeyemi (Lagos State University, Nigeria) and Dr Mohammad Khalid Khan (TRW Automotive, Birmingham, UK). IEEE prizes are on its way to you!

Al Balaqa' Applied University – Faculty of Engineering Technology, Amman, Jordan:

More innovative ideas spring from BAU-FET

WE CONTINUE to organize a variety of other innovative schemes, such as the Languages Club, which teaches foreign languages free to university students. We began with the first level of Japanese and culture which ended successfully with the attendance of 35 students.

The Digital Library is another success story, which consists of two parts: CDs and books. The committee provides the branch with various CDs needed by the vast majority of the university students, such as engineering and scientific programs, self-motivation and development, and multimedia with

running programs. The books are also in engineering, science and human resource development. The books and CDs are borrowed by the students free of charge to help them get the benefits they need.

Another creative work is in forming the Inventions Team, which includes many distinguished students who share their experience in scientific fields and choose a suggested idea to begin making it a reality under the supervision of the branch counselor Dr Tariq Al Moghrabi.

Ali Jaradat

BAU IEEE SB Chairman
ali_me@ieee.org

Grading the projects



Alexandria Student Branch, Egypt:

Project fair exhibits new electronics

IEEE ALEXANDRIA Student Branch organized a successful Project Fair designed for Electronics students.

Projects exhibited at the fair included an automatic door lock, a parking system, a backup system, a traffic light, and a universal IR and PC scope. To arouse the spirit of competition among the participating teams, a contest was held, with professors judging all of the projects and picking the top three.

Another successful event recently was a trip to the Electrix Fair held in Cairo over 16-19 December, which is attended by numerous global firms including Schneider and Siemens. We also hosted

a seminar on Fuzzy Logic Control, trying to promote student awareness of modern control techniques. Additionally, two Branch officers attended ESBM 2006 in Shoubra, Cairo, in December.

We have relaunched our website to encourage the exchange of ideas, good practice and new initiatives in learning and teaching. The site was entirely designed and developed by branch volunteers who have attended study groups dedicated to web design and graphics. Visit us on www.alexsb.org.

Enas Radwan

Alexandria SB Secretary
Enas.Radwan@ieee.org
info@alexsb.org

DEAR REGION 8 students,

The 2005-2006 Region 8 Vice Chair Student Activities (VCSA), Marko Delimar, changed role within the IEEE Region 8 Committee on 1 January 2007, taking over the position of Vice Chair Membership Activities. Due to some outstanding issues at last October's Region 8 Committee meeting in Belgrade, Marko's replacement could not be elected at the time.

I have been asked to act as an interim VCSA, and I hope that a regular Vice Chair can be elected soon at one of the forthcoming Region 8 Committee meetings.

I believe I can speak on behalf of all of you when I thank Marko for the wonder-



ful job that he did during the past two years! We are glad that he will continue to be working in the IEEE, not only in Region 8's Membership Activities, but also in the R8 Student Activities Committee (R8SAC) itself as the Past Chair. We will certainly benefit from his experience.

Many thanks go also to

Ricardo Varela, the 2005-2006 Region 8 Student Representative. He came up with many new exciting ideas, and he did a terrific job in representing you.

Ricardo's successor is Michael Gloegl (m.gloegl@ieee.org). Michael was previously the Student Branch Coordinator in R8SAC, and before that he played an important role in the organization of the Student Branch Congress in Passau in September 2004.

We have also appointed three Student Members to R8SAC: Thomas Watteyne (thomas.watteyne@ieee.org), Luka Lugaric (llugaric@ieee.org) and Pablo Herrero (pablo.herrero@ieee.org). They hold the positions of Awards

and Contests, Electronic Communications, and Student Branch Coordination, respectively. Thanks also to the previous Past Chair, Pilar Molina Gaudó, who has become R8 GOLD Activities Coordinator, and to Basak Yüksel, who is now the official co-editor of Region 8 News.

Remember, we as members of R8SAC are here for you, so share your ideas with us in realizing our goals:

- Create more student membership benefits at all IEEE levels
- Develop student activities (including contests, awards and promotion programs)
- Foster student members' awareness of IEEE activities and existing benefits

- Support students' initiatives and inform other IEEE organizational units about them

- Represent student interests and voice student concerns
- Help with the formation of new student branches, chapters and affinity groups
- Help with communication between existing branches, chapters and groups
- Increase student membership and develop retention strategies
- Bring more fun to IEEE!

We greatly appreciate your input, and all questions and comments are most welcome. Please feel free to contact us at r8sac@ieee.org.

Martin Bastiaans
R8 V-C Student Activities
m.j.bastiaans@ieee.org

Suleyman Demirel University, Kazakhstan:

SDU sets up branch

AFTER A lot of hard work, IEEE Suleyman Demirel University (SDU) Student Branch has been formed. We have set up a Social Activities Committee and Project Committee to speed up our activities. We plan to run tours, project competitions and other events for our first year. We hope to work with the other branches and jointly organize national events.

Because of the lack of industry in our immediate locality, we want to use the branch to open up opportunities for our members. We believe it will bring us experience and help us prepare for professional life.

Sitki Solak
sitkisolak@stud.sdu.edu.tr



THE WIE Affinity Group at Ajman University of Science & Technology (AUST) recently organized a trip to a school for children with special needs, as part of the CAUSE (Community Activities by Undergraduate Students of Engineering) program initiated in February 2006. Eight female engineering students visited to the Sharjah-based school Manzil on 17 October 2006 with a motivation to serve to the community and help to the special children in developing skills that can be beneficial to them in leading a life close to normal. Students at Manzil are aged 6-20 years, suffering from deficit disorder, behavioural difficulties, moderate learn-



AUST WIE Members with Senior Challenged Students

Ajman University of Science & Technology, UAE:

Embracing special needs with WIE

ing disability and severe physical disability.

During the three-hour stay, WIE members interacted with all the students,

played educational and leisure games with them, held competitions, and gave away gifts. A long-term commitment was made with the staff

at Manzil that a bi-monthly visit will be organized to train the students for any kind of skills they can adapt to or enhance the talent they possess, such as in music, art and craft, painting, karate, basic use of computer and Internet, routine office work, telephone manners, etc. The students and teachers showed great appreciation and excitement.

All students were delighted to meet the WIE members and collect their gifts. We hope that their smile never fades away and together we will make a positive difference in their lives.

Tazeen Sharif
AUST WIE AG Chair
tazeen.sharif@ieee.org

American University of Beirut, Lebanon:

Student societies host annual Iftar

TO ENHANCE the educational experience and personal development of students by facilitating interaction and communication, a number of faculty members and staff at the American University of Beirut (AUB) and the IEEE AUB Student Branch hosted the Annual Iftar on 18 Octo-

ber 2006 at the Gefinor Rotana Hotel. More than 160 IEEE members attended.

In speeches following the Iftar, the SB Chair welcomed the guests. Dean Hajj talked about the holy month of Ramadan and how it teaches self-discipline, self-control, tolerance and care for oth-

ers. Professor Zaher Dawy, the SB counselor, announced a number of future events. Finally, Dr Ahmad Smaili, advisor of ASME, thanked the organizers and advised students to stick to their principles in life.

Rabih Yazbeck
rp00@aub.edu.lb





**Katholieke
Universiteit Leuven,
Belgium:**

Finding jobs in small tech

ON 6 December 2006, IEEE KU Leuven Student Branch successfully organized a job fair for 'spin-offs and small hi-tech companies'. With the full support of IEEE Benelux Section, IEEE Region 8 and KU Leuven's Department of Electrical Engineering, more than 20 companies took part, attracting in excess of 200 students.

The idea behind the job fair was to provide a platform for students and the many small and often relatively unknown companies in the region of Leuven to get acquainted with each other. Because these companies (sometimes with as few as three employees) have difficulty competing with large multinationals in regular job fairs, only spin-offs and companies with less than 100 employees were allowed to participate. This gave students a chance to get to know these innovative companies that usually spring from state-of-the-art research done at our universities.

Following positive feedback from the students and companies, we plan to organise this kind of event on an annual basis. For further information on the job fair, please go to: <http://jobdag.ieee-sb-leuven.be>.

Yangyin Chen and Jan Vangorp
www.ieee-sb-leuven.be



University of York, UK:

Meet, greet and eat – do not wait!

HOW DO you go about introducing the IEEE to new students? We think we've found a good way. On 21 November 2006, the IEEE University of York Student Branch held a 'Meet, Greet and Eat' event.

During the session, the SB gave presentations introducing IEEE, Region 8, the Student Activities Committee and the University of York Student Branch. We reported on previous events, such as the visit to Farnborough Airshow, and revealed



some of our future plans, including a visit to Google UK. Student Branch Counsellor Prof John Robison and IEEE senior member Dr Adrian G Bors were also present to

answer students' questions. Naturally, we introduced the full benefits of becoming an IEEE student member and explained how to join in.

To lighten up the pres-

entations, we provided free food, including Thai starters and pizzas, and soft drinks. The students and teaching staff in the same camp got an informal chance to meet each other and discuss topics of mutual interest.

The success event was measured by the 15 new members who joined, giving us a promising start for the academic year.

Ke Yu, IEEE University of York SB Publications Officer
ky504@york.ac.uk

LEOS Benelux Student Chapter:

ASTRON visit reaches to stars

IEEE LEOS Benelux Student Chapter organized an excursion to the Netherlands Foundation for Research in Astronomy (Astronomisch Onderzoek in Nederland, or ASTRON) in Dwingeloo on 19 October 2006.

Some 15 participants enjoyed the visit which included two presentations. ASTRON employs 250 scientists and technicians. One of its current projects is LOFAR (Low Frequency Array), whose goal is to investigate the very young life of the Universe by measuring radio signals from the outer space. These observations will be performed by a great number of telescopes situated all over the world and connected into one virtual telescope.

The LOFAR project also incorporates research towards cost-effective optical links and optical data processing, the improvement of electrical driving circuits, and the development of advanced

One of the telescopes in Westerbork



antenna arrays. Those activities, besides industrial, involve Twente University and the Technical University of Eindhoven, the Netherlands, as academic partners. The Twente University works on the development of ring resonator-based optical beam forming systems for broadband phased-array antennas and

the enhancement of the dynamic range of analog optical links for interconnecting distributed phased-array antenna elements. The Eindhoven University performed enhanced research on the development of a high-bit-rate optical data transport network connecting 168 antenna stations with the central processor through 160Gbit/s links. The representatives of those Universities were also present during our visit.

The group visited some facilities where prototypes are designed, produced and tested, before taking a guided tour in Westerbork, where 14 large telescopes with 25-metre dishes are situated. The LOFAR project involves different branches of science – meaning there was something for everyone during the visit.

Patryk Urban
LEOS Benelux Student Chapter Board
P.J.Urban@tue.nl

University of Ibadan, Nigeria:

Conference pursues career objectives

THE IEEE University of Ibadan Student Branch held a Student Professional Awareness Conference on 22 November 2006, with the theme 'The Graduate and the Skilled'.

A representative from Coca-Cola spoke on 'The Employable Graduate: an employer's perspective'. The second session, a treatise on e-banking, was delivered by

a representative from Guaranty Trust bank, one of the most active banks in the country.

The next day, we organized an excursion to MTN Nigeria Communications, one of the largest GSM operators in the Nigerian Telecommunications sector.

Dasola Ayotunde Oluge
SB Chair
ayotundeoluge@yahoo.com



SB members during the excursion to MTN



Shoubra Faculty of Engineering, Egypt:

New SB hosts ESBM06

THE FIRST real event of the newly established IEEE Student Branch at the Shoubra Faculty of Engineering was last year's the annual Egyptian Student Branches Meeting (ESBM).

The meeting took place on 6–7 December 2006 in the main hall of Shoubra Faculty of Engineering. Some 45 people attended, comprising Shoubra faculty members, IEEE Egypt Section representatives and IEEE SB officers and members from 13

different universities around Egypt.

During the meeting, there was an informative presentation by the Information Technology Industry Development Agency (ITIDA), and workshops to discuss the main problems that the IEEE student branches face, reactivating the non-active student branches, IEEE membership benefits, ways of encouraging IEEE volunteers, ways of obtaining sponsorship for activities organized by IEEE

Student Branches, and ways of cooperating with the university administration.

There were also some social events such as dinner by a lake view, and the accommodation was arranged and supported by the organizers. We also distributed promotional material and samples of IEEE publications, including *Spectrum* and *Region 8 News*.

Mohamed Adel Shahat
Student Branch Chair
mols.eg@gmail.com

University of Jordan:

SB establishes regular lectures

IEEE UNIVERSITY of Jordan Student Branch hosted a series of fortnightly lectures towards the end of last year: 'Computer Vision', 'Developing World of Embedded Computing', 'Ubiquitous Computing', and 'Emerging Wireless Networks'.

The Branch held its Annual Presentation for IEEE student membership benefits on 31 October 2006 and participated with three teams at the IEEE Xtreme Programming competition on 2 December. We organized five major social activities: an Iftar event on 15 October; the Branch's 8th Anniversary party; an IQ Board Contest over five consecutive weeks;



IEEE JU SB vs GOLD soccer match

our annual bowling competition on 9 December; and an SB members vs GOLD members soccer match on 23 December.

The Branch is preparing for a careers day in April 2007, funded by the United Nations Development Fund for Women.

Tala Nimri, Vice-Chair
tala.nimri@ieee.org



Student Branch Karlsruhe, Germany:

One for the road

ARE YOU also enthusiastic about technology? Theory is the requirement to understand the basics, but practice is a lot more descriptive. 'Hands on' was the motto of our two-day excursion to Bavaria on 12–13 December 2006.

On the first day, we had the chance to see the process of assembling a car at Audi in Ingolstadt. A must was the 'museum mobile' where we got a good overview about the company's history. A highlight was seeing the new sports car Audi R8 while being tested for measurement on electromagnetic compat-

ibility. Most of the equipment of this lab was made by Rohde&Schwarz where we went the next day in Munich. We were fascinated to hear of the possibilities of software defined radio (SDR) which is already integrated in some of their products today. We even got a demonstration of how easy it is to determine the location of any pirate radio transmitter through a cross bearing!

We had a lot of fun, of course also in Munich, where we stayed the night, and got motivated for our studies.

Oliver Prinz
IEEE Karlsruhe SB Chair

Student Branch Graz, Austria:

From Curie to Tesla – Graz reloaded

IEEE STUDENT Branch Graz was reactivated in the spring of 2006. In September, we were invited to participate in the General Assembly of the IEEE Austria Section. And thanks to the contacts made at the IEEE Region 8 Student Branch Congress, we then organized a trip to Linz, Austria, where we met IEEE colleagues from Passau, Germany.

Currently, we are hosting a regular information event called 'E-Total' in co-operation with other student associations. With this event we try to give young electrical engineering students an insight into the field of electrical engineering. E-Total is a proven success.

In December, Dr Richter and Mr Tadic gave a talk on



'Nikola Tesla's European Time'. We proudly welcomed the National Television Republika Srpska and the Vice-Consul of Serbia, Vera Vukicevic, to this event.

We are also pleased to

report the initiation of a student paper contest for the students of Graz University of Technology.

Manfred Sampl
IEEE Graz SB Chair
manfred.sampl@ieee.org

Obafemi Awolowo University, Nigeria:

IEEE Nigerian Section gathers at OAU



ON 25 November 2006, Obafemi Awolowo University (OAU) Student Branch hosted the IEEE Nigerian Section for its quarterly meeting to round up activities for the year 2006.

The meeting was well attended by students, members and senior members at Africa's Most Beautiful Campus, OAU. The Student Branch, along with the

IEEE Nigerian Power Society Chapter, was charged with the responsibility of holding conferences on behalf of the Nigerian Section.

We will host the Nigeria Student Branch Congress in 2007, and preparations are also in top gear for a Power Society Conference.

Bello Taofeek
IEEE OAU SB
sb.oauife@gmail.com

Conference calendar

Workshops, conferences & symposia in Region 8

MARCH

ICTIS 07

Information and Communications Technologies International Symposium
Fez, Morocco
25–27 March 2007
www.ictis07.org

SETIT 2007

4th International Conference on Sciences of Electronic, Technology of Information and Telecommunications
Tunisia
25–29 March 2007
www.setit.rnu.tn

ISPLC 2007

IEEE International Symposium on Power-Line Communications and Its Applications
Pisa, Italy
26–28 March 2007
www.ieee-isplc.org/2007

APRIL

ICRA 2007

IEEE International Conference on Robotics and Automation
Roma, Italy
10–14 April 2007
www.icra07.org

ICNSC 2007

2007 IEEE International Conference on Networking, Sensing and Control
London, UK
15–17 April 2007
www.ieee-icnsc07.org

ICDE 2007

23rd International Conference on Data Engineering
Istanbul, Turkey
16–20 April 2007
www.icde2007.org

MAY

IMTC 2007

2007 IEEE Instrumentation and Measurement Technology Conference
Warsaw, Poland
1–3 May 2007
www.ewh.ieee.org/soc/im/imtc/imtc2007

IEMDC 2007

2007 IEEE International Electric Machines and Drives Conference
Antalya, Turkey
3–5 May 2007
www.iemdc07.org

MDM 2007

The 8th International Conference on Mobile Data Management
Mannheim, Germany
7–11 May 2007
<http://mdm2007.uni-mannheim.de>

ISORC 2007

2007 10th IEEE International Symposium on Object and Component-Oriented Real-Time Distributed Computing
Santorini Island, Greece
7–9 May 2007
<http://ise.gmu.edu/isorc07>

IST-Africa 2007

Information Society Technologies conference
Maputo, Mozambique
9–11 May 2007
www.IST-Africa.org/Conference2007

AICCSA 2007

ACS/IEEE International Conference on Computer Systems and Applications
Amman, Jordan
13–16 May 2007
www.philadelphia.edu.jo/aiccsa2007

WILGA 2007

20th Joint Symposium on Photonics and Electronics for Accelerators and High Energy Physics Experiments
Warsaw, Poland
21–27 May 2007

EFTF & IEEE-FCS Joint Meeting

Joint Meeting of the European Frequency and Time Forum & IEEE International Frequency Control Symposium
Geneva, Switzerland
29 May – 1 June 2007
welcome@timenav07.org

JUNE

ISIE 2007

IEEE International Symposium on Industrial Electronics
Vigo, Spain
4–7 June 2007
www.dte.uvigo.es/isie2007

SIU 2007

2007 IEEE 15th Signal Processing and Communications Applications
Eskisehir, Turkey
11–13 June 2007
<http://siu2007.anadolu.edu.tr/en/index.php>

ASMC 2007

18th Annual IEEE/SEMI Advanced Semiconductor Manufacturing Conference
Stresa, Italy
11–12 June 2007
www.semi.org/asmc

RAST 2007

3rd International Conference on Recent Advances in Space Technologies
Istanbul, Turkey
14–16 June 2007
www.rast.org.tr

SPAWC 2007

VIII IEEE Workshop on Signal Processing Advances in Wireless Communications
Helsinki, Finland
17–20 June 2007
<http://wooster.hut.fi/spawc07>

IEEE ICC 2007

IEEE International Communications Conference
Glasgow, Scotland
24–28 June 2007
www.icc007.org

JULY

ISCC 2007

IEEE Symposium on Computers and Communications
Aveiro, Portugal
1–4 July 2007
www.comsoc.org/iscc/2007

ICSD 2007

9th IEEE International Conference on Solid Dielectrics
Winchester, Hampshire, UK
8–13 July 2007
www.highvoltage.ecs.soton.ac.uk/ICSD07

ISSCS 2007

International Symposium on Signals, Circuits & Systems
Iasi, Romania
12–13 July 2007
<http://scs.etc.tuiasi.ro/isscs2007>

INDIN 2007

5th IEEE International Conference on Industrial Informatics
Vienna, Austria
23–26 July 2007
www.indin2007.org

AUGUST

MLSP 2007

2007 IEEE International Workshop on Machine Learning For Signal Processing
Thessaloniki, Greece
27–29 August 2007
<http://mlsp2007.conwiz.dk>

MMAR 2007

13th IEEE International Conference on Methods & Models in Automation & Robotics
Szczecin, Poland
27–30 August 2007
www.mmar.ps.pl

SEPTEMBER

EUROCON 2007

International Conference on Computer as a Tool
Warsaw, Poland
9–12 September 2007
<http://eurocon2007.isep.pw.edu.pl>



AFRICON 2007

Forum for Electrical, Electronic & IT research with related Mechanical and Civil activities in Africa
Windhoek, Namibia
26–28 September 2007
www.africon2007.co.za
[see advert on page 2]

OCTOBER

eChallenges e-2007

The Netherlands
9–12 September 2007
www.eChallenges.org

Note to Organisers

Only IEEE co-sponsored conferences and workshops in Region 8 are eligible for free publicity here. Send details as a plain text message to r8news@ieee.org, putting *R8 News Calendar* in your subject line. Remember to state the event's full title, location, date and URL.