



In this issue....

Section & Chapter News, Pages 2-6
Student News, Pages 7-9

Features, Pages 10-12
Reminder Calendar, Page 12



New IEEE Milestone celebrates 100 years of the "Electronics Age"

By Roland Saam

The latest IEEE Milestone award in Region 8 has been dedicated to the work of former University College London (UCL) professor John Ambrose Fleming, whose patenting of the thermionic valve 100 years ago signalled the commencement of the "Electronics Age."

Unveiled at a ceremony held at UCL on July 1, the dedication on the plaque commemorating the award reads: "Beginning in the 1880s Professor John Ambrose Fleming of University College London investigated the Edison effect, electrical conduction within a glass bulb from an incandescent filament to a metal plate. In 1904 he constructed such a bulb and used it to rectify high frequency oscillations and thus detect wireless signals. The same year Fleming patented the device, later known as the 'Fleming valve'."



Provost & President of UCL Malcolm Grant (left), with Royal Society vice-president Sir Eric Ash (center) and 2004 IEEE president Arthur Winston at the Fleming Centenary celebrations at University College London

Two keynote speeches at the ceremony — one from Sungook Hong titled "Fleming: From Power to 'Ether' Engineering" and the other from Royal Society vice-president Sir Eric Ash titled "How to Save the Planet" — were followed by a drinks reception outdoors at UCL's Malet Gardens.

The award ceremony formed part of a wider

event titled "100 Years of Electronics 1904-2004: Fleming Valve Centenary Celebration." A group of historians from Japan travelled to London for the celebration and on to lead the Third Maui Meeting organized by IEE Japan's history committee and the IEEE History Center. It was held at UCL during the university's conference with

the IEE. Among the papers presented during the event were *Engineering Education in Japan*, a *History of Electro Engineering*, and *Technology Transfer*.

CHE2004

In the same week as the events in London, the IEEE Conference on the History of Electronics, CHE2004, was held at Bletchley Park the site of allied code-breaking work during World War II. This major conference attracted 100 participants to the beautiful English countryside.

Sixteen sessions explored many developments in our technologies: everything from electronic music to medical instruments; power, space, business and national contexts. A student paper contest brought finalists from most of IEEE's ten regions. An interesting overview and full set of pictures can be seen at www.ieee.org/ then search CHE2004.

Celebrating our heritage: IEEE's role

The week's activities and conferences surrounding the centenary of Professor Fleming's patenting of the thermionic valve (see story below) taught me a great deal. Perhaps the most significant thing I learned was that the underlying presence of the IEEE was of the greatest importance for those events to be *without boundaries*, *transnational*, *inclusive*. All of them involved volunteers from the IEEE and some involved IEEE staff, in particular the IEEE History Center.

It is difficult to convey to readers of Region 8 News that wonderful feeling of belonging to and being part of history and historical development in electro technology. But I suspect many of us have shared such
Continues on page 3

Industry Relations Committee establishes virtual community

The Region 8 Industry Relations Committee decided during its last meeting to start a forum — a virtual community — that would better enable us to identify the needs of our members in industry. But what can a team of 30 people do without input from the IEEE membership at large?

We need to know more about your daily work. How you combine your job in industry with your membership of IEEE and so on.

Being an active member, you definitely see some advantages, which might be shared with the big group. And maybe you face some problems that this group can solve for you as

well. So how about joining your peers to take the IEEE's Industry Relations a good step forward?

Please join us at www.ieeecommunities.org/r8industryrelations.

Alternatively, please contact Christian Borgert (c.borgert@ieee.org) directly for further discussion. Thanks in advance!

Faraday Medal for Edinburgh professor

The Institution of Electrical Engineers has awarded its highest accolade, the Faraday Medal, to Peter Grant, Head of the School of Engineering and Electronics at the University of Edinburgh. Prof. Grant (on the right of our picture accepting his medal from Motorola chairman Sir David Brown) received the award for outstanding work



during his 35-year career in signal processing and digital adaptive filters.

Welcome back to the world of Region 8 News!

You may have noticed that I missed our printer's July deadline. June was very busy.... As a member of the IEEE History Committee, I was helping the IEEE History Center organize a conference on the History of Electronics at Bletchley Park, about 100km north of London. That's one of our front page stories, together with the dedication of an IEEE Milestone.

Ours is an important profession, and it is fascinating to learn how it has developed over the last 100 years. I guess we're lucky that the IEEE exists, and that we belong to it.

The difference between the IEEE and every other society and institute I know of is that it is run by its volunteers. We do it ourselves. Sometimes good, sometimes not.

The experience of *doing* belongs to the volunteer, who has opportunities to work with others to achieve so much that IEEE represents. Take a look at Charles Turner's page 10 article, "Volunteerism in Region 8" and consider how you might enjoy volunteering yourself.

Your vote counts!

You will have received the IEEE ballot papers, so please take a moment to read the candidates' statements. You may notice that for the first time there is a candidate for President-elect from outside North America! You can read Tony Davies' personal observations on page 10 of just how important your vote in this election could be.

In April I was fortunate to be invited to watch Formula 1 world champion Michael Schumacher test

his Ferrari car during a test day at Fiorano (Maranello) in Italy. It was a real thrill to be behind the scenes and observe how a professional team works so hard to achieve what it does — supported of course by electronics, telemetry, motors, computers, measurements, etc.! Our Photo Quiz is based on these aspects of Ferrari's testing.

Region 8's Chapter of the Year Contest recognizes in two categories (for large and small chapters) the success of members getting together to do a conference or a meeting. Read all about them on page 5 of this issue.

Budapest saw the finals of a worldwide programming contest that attracted an initial online entry of 245 teams from 39 countries! Read on page 6 what happens when a significant problem has to be solved in 24 hours!!

Make contact...

I hope that you will be delighted with this issue of IEEE Region 8 News. Please write to me with your suggestions and comments. In fact, write about any issue that affects you as an IEEE Region 8 member or about which you have a strong opinion. It is in everyone's interest that we have a lively and interesting forum for debate that can be accessed by every Region 8 member, and I believe our planned introduction of a "Readers' Letters" page could provide such a forum.

In next issue I will report on the results of our Survey of Readers that was published earlier this year.

Roland Saam
July 2004

IEEE Region 8 News

Advertisements are welcome. Prices, deadlines, and information — contact the Editor.
Region 8 Website: www.ieee.org/r8
Information HELP Desk: member-services@ieee.org

REGION 8 OPERATING COMMITTEE

Bylaws and descriptions of the committee offices — refer to the Region 8 Website at <http://www.ieee.org/r8>. Email addresses of Region 8 Committee Officers 2004:

Officers and Vice Chairs

Director
Tony Davies
tonydavies@ieee.org

Director-Elect
Baldomir Zajc
b.zajc@ieee.org

Past-Director and V/C Strategy
Levent Onural
l.onural@ieee.org

Secretary
Charles Turner
r8secretary@ieee.org

Treasurer
Dr Hans J Schmitt
h.schmitt@ieee.org

V/C Membership Activities
Rolf Remshardt
r.remshardt@ieee.org

V/C Student Activities
Pilar Molina Gaudó
pimolina@ieee.org

V/C Technical Activities
Tariq Durrani
t.durrani@ieee.org

Appointed Members

Awards & Recognitions
Duncan Baker
duncan.baker@ieee.org

Conference Coordinator
Magdalena Salazar Palma
m.salazar-palma@ieee.org

Chapter Coordinator
Jozef Modelski
modelski@ieee.org

Editor R8 News
Roland Saam
r.saam@ieee.org

Industry Relations
Jean Gabriel Remy
jean-gabriel.remy@ieee.org

New Section Development
Jaafar Al-Ibrahim
jaafaribrahram@ieee.org

Membership Development
Margaretha Eriksson
margaretha.eriksson@ieee.org

Standards Coordinator
Ingo Ruesch
i.ruesch@ieee.org

Voluntary Contributions Fund Coordinator
Zbynek Skvor
z.skvor@ieee.org

Student Representative
Basak Yuksel
basak@ieee.org

GOLD "Graduates of the Last Decade"
Mario De Weerd
m.deweerd@ieee.org

Electronic Communications Coordinator
Jeremy Newberry
r8webmaster@ieee.org

Educational & Accreditation Activities
Victor Fouad Hanna
victor.fouad@ieee.org



Editor:

Roland J. Saam
Micros For Managers Ltd
149 Gloucester Road
London SW7 4TH
ENGLAND
Tel +44 20 7565 2111
Fax +44 20 7565 2114
r.saam@ieee.org

Region 8 News is published quarterly by the Region 8 Committee of The Institute of Electrical and Electronics Engineers and distributed free with IEEE Spectrum, to more than 50,000 IEEE members. Extra copies for distribution at IEEE events, Send your request by email before the deadline and please specify quantity and delivery address.

Articles from any member of the IEEE are welcome. Please send as Plain Text, RTF, or DOC files. Send photographs separately as JPG files.

Emails: Subject [R8News]
Student News to: R8StudentNews@ieee.org.
GOLD News to R8GOLD@ieee.org.
Read past issues at <http://www.ieee.org/r8>.

The deadlines for Region8 News are as follows:
November 2004 issue: 1 September
February 2005 issue: 1 December
May 2005 issue: 1 March

Celebrating our heritage: IEEE's role

Continued from page 1 thoughts over the years.

I wonder whether Professor Fleming had a similar feeling of participating in momentous events when he patented the thermionic valve, the forerunner of today's silicon chips? Fleming had enrolled at University College London at age sixteen, and worked his way to a First Class BSc. He later taught, undertook research and obtained a DSc degree on "Electricity, Treated Experimentally."

By 1881, at age 32, Fleming became Professor of Maths and Physics at Nottingham. He observed Marconi's wireless demonstrations in April 1898, and became an advisor and designer of apparatus used in 1901 for the first trans-Atlantic transmission of radio signals.

I would like to acknowledge my sources for this fascinating story, especially IEEE Fellow Hugh Griffiths, head of E&EE at UCL who originally proposed the IEEE Fleming Milestone. His excellent UCL program is available at <http://www.ee.ucl.ac.uk/Fleming>. The book "Exposing Electronics" edited by Bernard Finn (Harwood) has an excellent chapter by Sungook Hong on "J. A. Fleming's Route to the Valve".

To learn more, visit the IEEE History Center at <http://www.ieee.org>. You can read all about the Fleming Milestone here: http://www.ieee.org/organizations/history_center/fleming.html.

Roland Saam
July 2004

Have you ever seen *anything* like it?

Germany's capital Berlin saw a unique sequence of international inter-society IEEE chapter activities recently.

The IEEE Region 8 IA IE PEL PE Inter-Society Chapter Workshop provided opportunities for intensive exchange and networking between IEEE sister societies; ie, IAS, PELS, IES and PES. This was the first time the respective German chapters were able to meet jointly.

The presence and presentations of chapter members and officers from the societies and several other Region 8 chapters also gave this inter-society event an international dimension. In this respect it is was a particular pleasure to celebrate the foundation of a Hungarian IAS chapter on the first day of workshop, supported by the joint IAS/

PELS/IES German chapter. It this way did not content with its current positive membership development - regarding increase of the number of members and a successful senior member program - but additionally served as some multiplier.

* IEEE and VDE, the Association for Electric, Electronics and Information Technologies, hosted the first part of the workshop in their Berlin headquarters:

Introductions of VDE and IEEE Germany section by the general manager and the chairman of the Information Technology Society respectively gave a valuable insight into the complementary organisation's activities and resources. This knowledge being widely spread between some 40 participants — comprising

many officials — was of particular value for triggering possible new cooperative projects.

Considering the aspect of networking, the social program — comprising a guided tour through the city with sightseeing as VIPs in the new-old parliament building German Reichstag and kind receptions by the industrial and scientific hosts — is worth mentioning. Within a sequence of three joint chapter meetings of the IEEE Joint IAS/PELS/IES German Chapter and the IEEE PES German Chapter these hosts offered an interdisciplinary technical program comprising in-depth presentations and company or lab tours, giving insights into their current industrial and scientific work:

Siemens AG's Power Transmission and Distribution, High Voltage Division presented state of the art and R&D activities regarding the use of power electronics in high voltage transmission systems; eg, HVDC and FACTS. The challenge of high voltage, high power switching is faced using dedicated thyristors as semiconductor

valves, taking into consideration functionality like device light triggering or indispensable converter, short circuit current limitation.

Alstom Power Conversion GmbH, General Drives,



IEEE IAS President 2000, Caio A. Ferreira (left), receives a medal of honor from Prof. Dr.-Ing. A. Schwab, IEEE Germany Section Chairman, during the Berlin chapter workshop hosted by VDE

gave an insight into drive systems in the Megawatt range, comprising power electronics (such as a multi level medium voltage converter) and machines such as a 5MW permanent magnet generator. The systems were designed for applications as different as offshore wind parks, pump storage plants and railway traction.



Senior members of IEEE IAS/PELS/IES German chapter after their honorable appointment

More historic achievements named IEEE Milestones

If there is one program from the IEEE History Center that is more closely geared to the IEEE's sections around the world than any other, it is the *Milestones in Electrical Engineering and Computing*.

To gain one of the coveted Milestones, a section proposes a local achievement of significance and prepares a carefully documented nomination. If the proposal is approved by the IEEE History Commit-

tee and IEEE Executive Committee, dedicates a bronze plaque recognizing the honor.

At its meeting in April this year, the ExCom approved four additional Milestones recommended by the History Committee. The new Milestones were proposed by four different sections in three regions:

- The Electronic Quartz Wristwatch, 1969 — IEEE Tokyo Section, Region10.

- The First Computers to Use Magnetic Disk Storage, 1956 — IEEE Santa Clara Section, Region 6.
- Alternating Current Electrification, 1886 — IEEE Berkshire Section, Region 1.
- Electric Fire Alarm System, 1852 — IEEE Boston Section, Region 1.

These latest Milestones bring the total number in the IEEE History Center's

program to 58. All four sections whose proposals have been accepted are planning dedication ceremonies later this year in Fall.

Visit the Milestones Web site to learn more about the program in general and also about these specific dedications as additional information becomes available:

http://www.ieee.org/organizations/history_center/milestones_program.html

A section's experience when Academia meets industry

The 11th Annual Technical Exchange Meeting (TEM-11) was held on April 13-14, 2004 at Dhahran, Saudi Arabia. With an attendance over 500 and two full days of technical and social activities, TEM-11 was the most successful in this series.

The meeting was jointly organized by the IEEE Saudi Arabia Section and the EE Department of King Fahd University of Petroleum and Minerals (KFUPM). Inaugurating the event, the Rector of KFUPM emphasized the necessity of increased cooperation between industry and academia and assured

his support in this direction.

Rather than the traditional call-for-papers based approach, the meeting was restructured around invited distinguished speakers, covering six distinct technical tracks, namely IT Security, Power Systems, Energy & Power Electronics, Information Technology, Communications and Advanced Process Control (APC). For each area, two prominent speakers were invited; one from industry and the other from academia.

In addition to technical sessions, the program included an excellent panel discussion on engi-



HE Dr. Khaled S. Al-Sultan (right), receives a special award from Mr Nabil Al-Dabal, IEEE Saudi Arabia Section Chairman (left) and past Chairman Dr. Samir Al-Baiyat

neering education and distance learning. A highlight was the introduction of a Students Projects Display session where the best three were given special awards.

Starting eleven years ago as a small initiative for IEEE members to share their experiences, TEM has grown into the largest attended technical event in the Kingdom. We can

proudly say that it is a true IEEE success story.

Nabil Al-Dabal, Chair & Dr. Mohamed Deriche, Vice Chair of IEEE Saudi Arabia Section
www.ieee.org/saudia

Gulf IEEE Sections combine efforts to prepare for second GCC Conference

After a decade of successful technical meetings jointly organized by the King Fahd University of Petroleum & Minerals, Saudi Aramco and the IEEE, members of the IEEE Saudi Arabia section felt there was a need to share their success with other sections in the area. So, in 2002, a meeting of Section chairs from the GCC countries was held and a decision taken to organize a regional conference called the "IEEE-GCC Conference".

A unique opportunity

The conference was the first of its kind in the region and was a unique opportunity for engineers and academics from the area to meet and exchange ideas and strengthen cooperation. 113 abstracts from more than 20 countries were presented and more than 500 participants from

industry and academia attended.

The conference succeeded in filling a major and long standing vacuum in the field of technical information sharing. Other attractions included pre-conference workshops and exhibition by major industrial organizations in the region.

2nd IEEE-GCC

This year, the 2nd IEEE-GCC will be held on November 23-25. The conference will continue to provide a forum for professional engineers and scientists engaged in research and development to share ideas, interact with others, present their latest work, and enhance industry-academia collaboration. It will also offer a window of opportunity to industrial organizations wanting to showcase and introduce their latest technology products in the region.

To allow for wide attendance from as many Region 8 countries as possible, Bahrain has again been selected as the conference venue. Bahrain is well connected with every Region 8 country and it is easy to obtain a visa to travel to the country. For details, please take a look at the following Web site: www.bahraintourism.com. We will have special discount arrangements with the major hotels and details will be published in advance.

We take this opportunity to cordially invite all IEEE members from Region 8 to participate in this major conference. More details can be obtained from the conference Web site: <http://www.ieeegcc.org>.

Nabil Al-Dabal, Chair & Dr. Mohamed Deriche, Vice Chair of IEEE Saudi Arabia Section
www.ieee.org/saudia

MIKON 2004 Report

15th International Conference on Microwaves, Radar and Wireless Communications

MIKON-2004, May 17-19, 2004 in Warsaw, was the sixth international event organized jointly by the Polish Academy of Sciences, the IEEE and the Polish Telecommunications Research Institute (PIT), the leading research center for radar technology in Poland.

We were privileged to have many distinguished guests: Professor Michal Kleiber, Minister of Scientific Research and Information Technology; IEEE MTT 2004 President Professor Robert Trew; and Professor Wladyslaw Wlosinski of the Polish Academy of Sciences.

374 participants from 31 countries

This year's success builds upon MIKON's 35-year long history. The conference was attended by 374 participants from 31

countries, including 108 attendees from abroad. 216 papers and 17 invited talks were included in MIKON-2004. Altogether, 137 of the papers were heard at 27 oral sessions and 96 were included in three interactive forums.

Young Scientist Contest

MIKON-2004 continued the Young Scientist Contest addressed to young engineers and PhD students. 83 papers competed for prizes given by the European Microwave Association, IEEE AP/AES/MTT Joint Chapter of Poland Section and the Polish Academy of Sciences.

A Special edition of IEEE Transactions on MTT in February 2005 will be devoted to this year's conference.

Jozef Modelski
 TPC Chairman

Filtronic chairman David Rhodes recognized for "exceptional contribution to engineering"

Professor David Rhodes has received the Royal Academy of Engineering's highest award — the Prince Philip Medal — in recognition of his exceptional contribution to engineering. His Royal Highness Prince Philip, Duke of Edinburgh, as The Academy's Senior Fellow, presented Professor Rhodes with the gold medal at The Academy Awards Dinner in June 2003. The award is made to an engineer of any nationality "who has made an



Professor David Rhodes

exceptional contribution to engineering as a whole through practice, management or education."

Academic and entrepreneur Professor David Rhodes studied for both his BSc and PhD at The University of Leeds. In 1977 he founded the highly successful electronic components company Filtronic, which with nine subsidiary companies has annual sales of £250 million, mainly in mobile communications and defence electronic equipment, and 3000 employees in seventeen facilities on four continents.

Filtronic Plc research and development engineers include many IEEE fellows, senior members and members who regularly contribute to IEEE Transactions, and volunteer to work UKRI Executive Committee and to IEEE Technical Societies.

IEEE Chapter Contest Winners



Prof. Leonhardt (right) receives the Big Chapter of Year award from IEEE President Art Winston, with Tony Davies (left)

R8 Chapter Coordinator Jozef Modelski writes:

I am pleased to announce the results of Region 8 "Chapter of the Year 2003" contest: Winner of the "Big Chapters" category is the Joint IA/PEL/IE Chapter, Germany Section; the "Small & Middle Size

Chapters" category winner is the Joint IE/IA/PEL Chapter, Yugoslavia Section.

An official award ceremony was held during the R8 Committee Meeting in Krakow, Poland. Each winner received a diploma plaque and

\$1000 for Chapter activities.

The next *Chapter of the Year* Contest will be announced in November.

Find information on the winners at: <http://www.ewh.ieee.org/r8/germany/ias-pels/> and <http://www.ftn.ns.ac.yu/ieee/>.

Saint Petersburg meeting discusses prospects for development of IEEE activity in Russia

Around the end of April/beginning of May, Saint-Petersburg in Russia welcomed two IEEE delegations. The Technical Activity Board organized TAB Colloquia, which took place in Saint Petersburg's Electrotechnical University from April 29 until May 2. IEEE President 2004 Arthur Winston and IEEE staff director Lyle Smith came to visit Russia (North-West) Section during May 14-17 on their way to Moscow.

Prior to visiting St Petersburg, TAB representatives ran similar Colloquia in Brussels, Krakow and Helsinki. The presentations in St Petersburg comprised:

- Evolution in Biomedical Imaging (Christian

- Roux)
- Quartz Atomic Clocks (John Vig)
- Research Directions in Speech Recognition/New Approaches to Engineering Design Education (Leah Jamieson)
- Technical leadership: skills for a whitewater expedition (Wade Shaw)

During the meeting with Russia (North-West) section ExCom Ralph Wyndrum and Mary Ward-Callan gave a presentation on the tendencies for IEEE evolution. While discussing these issues, especially the prospect for development of the IEEE activity in Russia, it revealed that one of the key difficulties on the way of Russia inte-



(L-R) John Vig, Mary Ward-Callan and Alexander Mikerov at the Museum of Russian Vodka

gration to the IEEE was an insufficient level of English among the students and young specialists. So the decision was made to support the section with some materials to improve the level of English.

When the IEEE 2004

President Arthur Winston visited the section he addressed the students and the faculty of Saint Petersburg Electrotechnical University. Among others the issue of student exchange programme was raised. Mr. Winston prom-

ised to look to the backup of the question. It is especially important as Russia (North-West) Section is very young and only starts to contribute to the IEEE.

While being at Saint-Petersburg all the guests visited not only Prof. Popov museum, which has already become a traditional place to visit, but also managed to get acquainted with a bit of Russian culture. The representatives of the Technical Activity Board were especially lucky to visit the Museum of Russian Vodka. IEEE President's and IEEE staff director's programme was more cultural – they enjoyed Russian ballet.

Olga Romanova
o.romanova@ieee.org

Your input is needed now!

IEEE Sections Congress 2005 will take place October, 14-17 2005 in Tampa, Florida. The motto this time is "Promoting a World Class Volunteer Community" and to support that we need your input to change IEEE in the best way. Please check: <http://www.ieee.org/organizations/rab/sc/2005/index.htm>.

Provide your wishes to your Section Chair or Region 8 SC05 Coordinator, Christian Borgert — c.borgert@ieee.org. We need your feedback to serve our active volunteers and members best. Thanks for your support!

24-hour programming marathon ends in victory for local team

By Jeremy Newberry

IEEE Hungary Section and Region 8 co-sponsored the fourth *BUTE International 24-hour Programming Contest*, held earlier this year at Budapest University of Technology & Economics. A total of 245 teams from 39 countries, entered the first round on the Internet, and the best 27 teams were invited to the finals in Budapest at the end of April. The finalists included teams from Germany, Hungary, Lithuania, Poland, Romania, Russia and Sweden.

In the finals, teams of three had to solve a highly complex, algorithmically difficult problem set within 24 hours, totally isolated from the rest of the world. The problems challenged competitors' preparedness, creativity, stamina and

teamwork efficiency.

The theme of this year's contest was car racing. The most interesting task was to navigate and drive an SUV on a virtual terrain. The teams could choose whether to drive on the safe road or off-road, but they had to make sure not to hit any of the obstacles that appeared.

Other tasks included controlling an oil-company, driving an assembly line robot and programming secret communications. The most difficult part of the contest was to divide problems into tasks, and distribute them amongst team members. This gave creative teamwork an even greater emphasis.

This year's winning team was "Neting" from Hungary, "Trial Version"



Local team "Byteam" from Budapest, helped by their pet rat Pockany, who is in the cage on the desk! Team members dyed their hair especially for the competition

also from Hungary came in second, and the third placed team was "Jon Far Bestamma" from Sweden. The members of the first team received a PDA each, the second team received Nokia smartphones, and the third team received

Microsoft Visual Studio software. IEEE donated free memberships for six runners up. After the contest was over, many of the competitors took part in the weekend's celebrations to mark Hungary's entry into the European Union.

MELECON 2004: "An inspiring forum for the exchange of ideas..."

The 12th IEEE Mediterranean Electrotechnical Conference, MELECON 2004, was held in Dubrovnik, Croatia in May. The Conference provided a full, 4-day program and proved to be an inspiring forum for the exchange of ideas and results. The confer-

ence program included a large number of sessions, industry presentations and a workshop.

After the review of nearly 400 submitted technical papers, 283 were accepted for presentation. Authors came from 51 countries representing

every continent. Presentations on developing technologies, with emphasis on bridging the gap between industry and academia, were organized during the Industry Day. The final day of the Conference was reserved for tutorials, and a full day "Development of

Leadership Skills" Workshop presented by Kurt Richter.

MELECON traditionally hosts the Region 8 Student Paper Contest finals. This year's winners were:

1. Antonin Descampe and François Devaux, Belgium – A flexible line-based JPEG2000 decoder for digital cinema
2. Biswa Sengupta, UK – Optimisation of timing properties in a platform independent manner
3. Ahmed Abdelrahman Muhammad and George Isaac Aziz, Egypt – 2D single mode channel wave-guide and MMI beam splitter fabrication and characterization

Best student papers submitted through a regular conference procedure were also awarded. The winners of the Best Student Paper Awards were:

1. Thomas Noulis, Greece – Effect of Technology

on the Input Transistor Selection Criteria of a Low Noise Preamplifier in Circuits and Systems for Signal Processing

2. Miran Mosmondor, Croatia – 3D Visualization of Data on Mobile Devices in Information and Communication Technology
3. Su Lee Goh, UK – Complex-Valued Estimation of Wind Profile and Wind Power in Power Resources and Systems

All awards were presented during the Conference Gala Dinner.

Many thanks to all participants for making the event such a success. Special thank you to Baldomir Zajc, R8 Director-elect, and Rolf Remshardt, VC Membership Activities, for their on-site support.

Next MELECON is in Malaga, Spain in 2006.



Student Representative: Basak Yuksel (basak@ieee.org). Send news to r8studentnews@ieee.org. Web site: <http://www.ieee.org/r8sac>

Hi all, In this issue, we have news from student branches of Russia, Nigeria, Portugal, Greece, South Africa and Spain.

We are the most diverse region of IEEE. In Region 8, we have student branches in almost 50 countries. And in most of these countries, we have more than one student branch. This number is sometimes really huge — 14 in Spain, for example, and 23 in Turkey! So IEEE and Region 8 link us to other countries and cultures.

To take the advantage of becoming an IEEE student member in such a vari-



ety, let's make a movement to speed up the involvement in ongoing activities in the region and your section. Other than organizing and joining the activities in your local student branch, cooperation in organizing joint events with other student branches will give you the great advantage of being a member of a bigger

family. So organize activities in your local region not only with your own student branch but with student branches nearby, inviting them to take part in your activities, meetings, training courses, social events, etc. For technical interests, take a look at the activities, meetings and conferences of the society that you're interested in your section.

To promote wider cooperation and interaction between student branches, the Regional Robotics Competition will take place in Region 8. All student branches in the region are invited both to help in the organization of the

competition and also to participate in it.

The IEEE Financial Advantage Program and the Region 8 Student Activities Committee are supporting this event financially. The first step is the formation of the organizing team. Every student branch and individual student member is invited to take part in the organization of this event. If you're interested in participating, please contact to me via email.

In the organization of this competition, we also have support from Region 3 Student Activities Committee. The winning teams

of Region 8 will go on to compete with the winners of Region 3. You can follow the upcoming news of the Regional Robotics Competition and also other ongoing programs and activities of R8 SAC from Region 8 Student Activities Committee web page: www.ieee.org/r8sac

Send us your Student Branch news and announcements to be published in R8 Student News and so let them to be known by other student branches in Region 8!

Warm wishes!

Basak Yuksel

Student Representative

basak@ieee.org

Aristotle University of Thessaloniki IEEE SB, Greece

In March, we visited electronics equipment company Olympia Electronics. We had the chance to discuss the company's new products, on which theories and models they were based and the reasons for their development.

Of course, the most interesting part of the event was the company's assembly line. Most students saw impressive machines — such as robotic arms that solder ICs on PCBs

or that test boards after manufacturing — for the first time. We also had the opportunity to ask real working engineers about their jobs while they developed and tested devices.

The other "big" event of our student branch, held the following month, was a workshop titled "The future of telecommunications in Greece." Ten representatives from all the major Greek telecommunication companies and national

committees were invited to talk about the structure of their present networks, wireless protocols, the evolution of Internet technology, and their role and plans for the future. Their presentations were followed by a discussion between company executives, professors and students.

Dimitris Kapousouz
Aristotle University of Thessaloniki, IEEE SB
Vice-Chair
dkap@ieee.org



Visit to Olympia Electronics by Aristotle University of Thessaloniki IEEE Student Branch members

University of Pretoria IEEE Student Branch, South Africa

Following on a successful 2003 for the University of Pretoria (UP) IEEE Student Branch, 2004 has started off really well. We held our annual Web site competition, and submitted the winner to the regional competition. You can visit our Web site at <http://ieee.up.ac.za/>.

One other annual event of our Student Branch, IEEECon, had 30 avid gamers competing against

each other for a number of prizes in various tournaments held at the LAN gaming event.

This year, we strengthened ties with the Department of Electrical, Electronics and Computer Engineering here at UP. One way we are doing this is with the introduction of a Community-based Service Learning Module, compulsory for all undergraduates. We at the SB are

taking this opportunity to introduce IEEE to students to help them with the organization and financing of their community projects. This is a chance for UP together with the IEEE to help to improve the community around us. One other similar project is the setting up of a WIE Affinity Group at the SB.

Sean Stevenson
University of Pretoria
IEEE SB Vice Chair

University of Lagos IEEE SB, Nigeria

Hello from the University of Lagos! The first quarter of the year was quite a busy period for us, in academic terms, but we had several activities outlined below.

The Solar Energy Seminar, which took place on the February 11 at the university, was organized by the Student Branch and Electrical Engineering Departmental Society (SEES). The guest speaker at this seminar was Eng.

Philips Iyede from the Philips Project Center. IEEE Unilag SB also had a trip to the airport which was organized by a senior IEEE member, Prof. Adekola

Various parts of the airport — such as the radar room, records, etc. — were visited and we were shown different types of antennas.

Folajimi Adekola
University of Lagos IEEE
Student Branch Chair

Universidad Complutense de Madrid IEEE Student Branch, Spain

Hispabot Local Robotics Contest

Some weeks ago we celebrated the local phase of one of the most popular robotics contests here in Spain, Hispabot. (More information at <http://www.hispabot.org>.) This was our second local round of this contest in the new building of the Computer Engineering School. A huge number of students joined us, watching the contest and asking local SB members and our branch mentor Prof. Jose Antonio López Orozco about how to design their own robot.



Branch mentor Prof. Jose Antonio López Orozco (left) and branch vice chairman David González Gómez (right) with the winner of the local robotics contest, who went on to participate in the national finals.

Madrid Regional Programming Contest

Taking place at Universidad Autónoma de Madrid in the last week of April, the Madrid Regional Programming Contest (CUPCAM) attract-

ed entries from more than 90 students, in teams of three students each. (More information at <http://www.eps.uam.es/cupcam2004>.) This year, Complutense IEEE SB participated as local contact and three teams from our university participated in the contest,

one of them obtaining second place. This contest was sponsored, among others, by the National Spanish Computer Professionals Association.

*Adolfo Vázquez
Complutense Universidad
de Madrid IEEE SB
Chairman*

Instituto Politécnico de Castelo Branco SB, Portugal

As the newest IEEE Student Branch in Portugal, we at Instituto Politécnico de Castelo Branco (IPCB), would like to say how proud we are to be part of this great organization. We plan to give the community reasons to believe in the engineers of the future.



IPSB Student Branch members at the official launch of their new branch

As our very first activity, we organized the official launch of the Branch, on April 30 in the Auditorium Comenius, Castelo Branco. Opening speeches were delivered by distinguished representatives of local government and education institutions who congratulated our initiative not only for being great for the development of students as individuals and active members of society, but also for promoting international recognition of Portugal and Castelo Branco.

Afterwards, we presented our reasons for creating the branch, the position that we intend to adopt in the academic and social environment and our main goals in the near future.

There followed a presentation by Prof. Francisco Lucas representing the Portuguese Engineering Order, with which the IEEE's Portuguese Section collaborates. Our counsellor, Prof. José Carlos Metrólho outlined his view of how the branch could take its first steps and (as always) gave

us special motivation to do great things. We were also privileged to have Prof. Raúl Vidal representing the IEEE Portuguese Section.

The second part of this event was made by Eng. Álvaro Oliveira, representative of ONI Telecom. He presented the PLC (PowerLine Communications) which is technology that is taking the first steps in Portugal.

The IPCB IEEE Student Branch would like to thank all the individuals that made our official presentation possible, as well as all the audience that was presented on. You can contact us at <http://ieeepcb.pt> or by the email sb.ipcb@ieeee.org.

*João Pereira
IPCB IEEE Student
Branch Chair
<http://ieeepcb.pt>
sb.ipcb@ieeee.org*

10th International Scientific Conference of Students in Russia

Moscow Power Engineering Institute IEEE Student Branch

In March at the Moscow Power Engineering Institute (MPEI), one of the largest technical universities in Russia, the 10th International Scientific and Technical Conference of undergraduate, post-graduate and PhD students, "Radio electronics, Electrical Engineering and Power Engineering," took place. Subjects included:

- Radio Engineering and Power Engineering
- Information technologies and Engineering Ecology
- Medical Electronics and Electrical Power Engineering

Members of MPEI IEEE Student Branch actively participated in the conference work and organization.

During the conference, more than 1300 reports were submitted (740 from MPEI) by students and PhD students not only from 64 universities of Russia, but also from countries such as Germany, Slovakia, the Czech Republic, Poland, Byelorussia, Uzbekistan and others in Asia, Africa, and Latin America.

The number of reports from foreign students has doubled in the last year. And with each year our colleagues from the Mongolian branch of MPEI in particular take an increasingly active role in conference work.

The best reports at the conference were awarded honourable diplomas and modest monetary prizes. Three volumes of conference proceedings were issued. The winners

were as follows: E. V. Savchenko, "Development of software for field particles displacement calculation on images" (supervisor Dr. L. Razumov); A. E. Mordvinov, "Research of phase and amplitude noise brought by the phase modulator on the basis of the differential cascade" (supervisor Prof. V. Kuleshov); and A. N. Koriukin and D. V. Sorokovik, "Computer software for studying non-stationary processes of simple antenna radiation" (supervisor Prof. V. Permyakov).

The conference has become a regular meeting place for students and PhD students from different countries of the world. Similar meetings promote networking, the further interaction of young scientists, help to engender joint activities and give impetus for the development of scientific and technical progress. We will be delighted to enjoy the future participation of representatives of other IEEE Student Branches!

MPEI IEEE Student Branch members are ready to make academic and research contacts with colleagues from other countries who are interested in our activities. It would also be a great pleasure to participate in other student branches' own activities. You can find out more about our branch activities here: <http://ieeepcb.pt>. We look forward to receiving your letters.

*Pavel Ostapenkov
MPEI Student Branch
Chair
OstapenkovPS@mgkit.ru*

Student Paper Contest on Information Security

Tomsk IEEE Student Branch, Russia

One of the initiatives of the Tomsk IEEE Student Branch is the annual All-Russia Student Paper Contest and Conference on Information Security, which was successfully held for the fourth time in April 2004. This contest was the first event in the Siberia Section with technical support from the Communications Society. SIBINFO was also supported by the GOLD Group and the IEEE Foundation.

The two phases of the Contest — paper and oral final — attracted many Russian participants, who

discovered IEEE and its benefits. More than 50 papers from 20 universities were accepted during the first stage.

The participants did a lot of work for their computer presentations with amazing software demonstrations. Sometimes the participants were so involved in discussion that they forgot about the time. All papers were accompanied by elaborate discussions by the participants. Every finalist in the contest was awarded.

Another interesting result of the contest was

the establishment of some close contacts between colleagues working in the field of information security.

The contest has become something of a tradition. For more information about SIBINFO and other events organised by the Tomsk SB, please go to <http://www.comsoc.org/tomsk>. We look forward to meeting you at SIBINFO-2005!

*Oleg Stoukatch
Tomsk SB founder and
IEEE GOLD Chair,
Siberia Section
<http://www.comsoc.org/tomsk>*

Port Harcourt University IEEE Student Branch, Nigeria

Commissioning of an IT center in the University of Port Harcourt was undertaken by Vice Cancellor Professor Nimi D. Briggs in March this year. The program was visited by principal officers of the university, lecturers, students and several multinationals.

Various guest speakers spoke on the importance of having a knowledge of computing in an encouraging environment. Engr. G. Masari dedicated the IT Center to John Postel, a great explorer of the Internet who worked for knowledge rather than monetary gain. The national president also



Members of IEEE Uniport Student Branch

gave a speech on the use, need and benefits of having basic computer knowledge. The occasion ended with thanks by Dr. A. O. Ibe.

*Udoh Francis
Uniport IEEE SB Chair
sees009@yahoo.com*

Lagos State University IEEE SB, Nigeria

The IEEE Lagos State University (LASU) Student Branch is setting the pace both inside and outside our campus. Our goal is to be the best student branch in Africa. In order to achieve this we set the following objectives for our branch:

- A one-week technical/cultural tour to Ghana to share technical knowledge and

network with fellow students.

- A Linux Technology Day organised in partnership with the Nigerian Linux Users Group (NGLUG) to promote the use of Open Source Software in Nigerian Universities.

*Kola Osinowo
LASU IEEE SB Chair
kolaosinowo@ieee.org*

Nigeria Section Meeting in FUTO SB

Federal University of Technology Owerri IEEE SB



The Federal University of Technology Owerri hosted a Nigeria Section meeting that in April. The meeting, held in the Council Chambers of the SEET building, was a huge success with many leaders of industry, university lecturers and student members across the country attending.

Highlights of the meeting included a review of last year's activities by the Nigerian Section Chair, Engr. Adekanye and a technical presentation by the Territorial Manager of Nigerian Telecommunications Limited (NITEL). IEEE Society meetings and Student Branch meetings were also held.

Student branches that

were represented included Nnamdi Azikiwe University Awka; University of Ibadan; University of Nigeria Nsukka; Institute of Management and Technology Enugu; University of Port Harcourt; Enugu State University of Science and Technology; and the host, Federal University of Technology, Owerri.

The meeting had a great effect on our Student Branch, especially with donations made to our school and branch by the Nigerian Section members. We hope to recreate this success at the IEEE/SEES week coming up soon.

*Chukwunonso Amadi
Student Branch Chair
ieee_futo@yahoo.com*

BTI IEEE Student Branch, Altay Region, Biysk, Russia

Reporting on the chess tournament organized by our IEEE Student Branch

Hello to all from Biysk in Russia — I want to tell you about what we have done!

On May 6, 2002, IEEE SB at Biysk Technological Institute (BTI) was organized. After this moment, the students in BTI immediately became more active. The SB, together with counselor Eugene V. Sypin, began to participate in various competitions and programs of the IEEE. At the same time, we had the idea to create our own original contest. As a result, Chess Tournament has appeared.

The idea received support from Region 8 SAC

and Pilar Molina Gaudo. From this moment, we started to organizing the tournament.

On April 15, 2004 the tournament began with an individual and team championship. Five teams and 24 individual players participated in the tournament. You can visit the tournament Web site at <http://www.chess.u-sonic.ru/>.

There will be a prize for the individual winner and the winning team from Region 8 SAC: The individual winner will receive an IEEE Milestone Swatch wristwatch and a free \$25

membership voucher for 2005 (Student Membership renewal). And each member of the winning team will get a \$25 membership voucher valid for 2005 IEEE student membership renewal. Finally, Region 8 SAC is providing \$100 as an incentive to any SB willing to organize further contests.

It is planned to repeat these chess tournaments on an annual basis from now on. I warmly invite you all to participate in next year's contest!

*Sergey V. Tyryshkin
BTI IEEE SB Chair
tsergey@ieee.org*

New IEEE presidential vote could mean more influence for Region

R8 Director, Tony Davies

I am choosing to write about the 2004 IEEE Election, in which members in Region 8 have the chance to vote for the next President and, on this occasion, to vote for a constitutional amendment as well.

Unfortunately the proportion of eligible voters who actually cast their vote in these elections is often rather small. While this is understandable, given that most members do not know the candidates personally, I believe there is a significant advantage to Region 8 if many more members do vote.

It is not just that this may influence the result, the mere fact of a large number of votes from Region 8 draws attention to its importance within IEEE and may enable the needs of the region to receive more attention.

A first... a candidate from Region 8

It would be inappropriate for me to make any recommendations about who you should vote for; the President-Elect candidates provide biographies and position statements, and all three have the endorsement of the IEEE Board of Directors. However, there is a special feature of the 2004 election: for the first time ever, there is a candidate from Region 8, and also the first time there has been a candidate from outside North America.

I also encourage you to vote in favor of the Constitutional Amendment. I do not believe that there are any hidden risks or disadvantages in voting for it, and it is principally a tidying up operation, to delete obsolete wording and concepts and make some simplifications.

Constitutional Amendments are normally rare events, and this is the first time there has been a chance to make such updates for some time. I hope there is a very low risk of some unintended consequences, which can always arise when rules and laws are rewritten.

Previously there was a legal requirement that one member of the Board of Directors must be from the State of New York. This is no longer the case, and the amended constitution now requires only that at least one must be a US resident. You might take exception to this, and feel that there should therefore be at least one Russian, one African, one Arab, etc. However, I suggest that requiring one US member of the board is a constraint of no practical consequence whatsoever, since for the foreseeable future most of IEEE's business and activities will continue to be in the United States and there is not the slightest chance that a Board of Directors could arise that did not have many of its members from the United States. Therefore, having a "token" requirement that at least one member must be from USA has no practical or operational consequence, may help the amendment to get enough votes to pass, and could be simply regarded as a quaint feature to recognise the historical origins of IEEE.

The OFAC laws

One of the least pleasant ongoing matters during the time that I have been Director has been the consequences of the OFAC laws and their interpretation, which led to restrictions on IEEE membership and activities in a few countries,

most of which are in Region 8. These have also led to some absurd restrictions on IEEE's publishing activities with respect to citizens and residents of these countries. It is very pleasing that after a long delay and many complex negotiations "behind the scenes," IEEE is able to report that essentially all these constraints on publishing have now been removed.

Progress on the membership and activities aspects is still very slow, but IEEE has adopted a more open policy to keep members informed. I would therefore just like to quote two short extracts from a letter from US Congressman Howard Berman to the Director of OFAC:

1. "...I am writing to take strong exception to OFAC's interpretation.... related to the publication of manuscripts written by

nationals of Iran.... in my opinion the guidance issued by OFAC on this matter — and the underlying regulations on which it is based — are clearly inconsistent with both the letter and the spirit of the law."

2. "...OFAC's recent interpretation of Section 203(b) — as reflected in your.... letter regarding publishing activities by ...IEEE — is patently absurd...."

The complete letter is currently available on the IEEE website. Nowadays, it is customary to denigrate politicians with adverse comments and negative criticisms, so it is good to be able to read something positive of this kind, which I feel gives some hope of further progress in removing other OFAC restrictions which most IEEE members feel are contrary to what we stand for, but by which



IEEE feels legally bound.

When I joined IEEE in the late 1960s, it never occurred to me that I might one day become R8 Director. Naturally very few members can have the experience, since IEEE needs a new R8 Director only once in every two years and there are some 45,000 members in R8 to choose from. Nevertheless, this is an indication that joining IEEE can have many unpredictable consequences, and maybe that is an additional reason to maintain one's membership.

"Volunteerism" in IEEE Region 8

Learned societies and professional organizations all rely on unpaid work carried out by those characterized by IEEE as "volunteers." IEEE depends highly on volunteer effort, particularly in Region 8, which operates outside the USA without the benefit of any paid staff support.

Around 1000 volunteers are currently active in the region, serving its 42 Sections, 300 Chapters and the Region itself. All IEEE publications, conferences, technical meetings, and many member services, are organized through volunteer activity in some form or another. Without this help the cost of membership would increase dramatically.

Changes in the nature of employment have reduced the time available to

members. Now it is harder than ever to recruit the volunteers needed to run activities effectively.

New volunteers are now needed to take over responsibilities, and to develop member services in Region 8. Examples of volunteer work include:

- Improving service to members
- Organizing technical meetings and conferences
- Financial and general administration
- Editing publications such as newsletters
- Maintaining Web sites
- Helping with student activities
- Liaising with IEEE HQ and the IEEE technical societies
- Liaising with national societies in the countries of Region 8

Volunteers enjoy the satisfaction of being part of a team working to enhance the value of IEEE membership, and of meeting technically active people from all over the world. All expenses incurred by volunteers for attending committee meetings, etc. are reimbursed from IEEE funds.

Most volunteers begin their involvement in IEEE by attending technical meetings or lectures, and through the wide variety of social activities taking place at these events. In your Section, Chapter or Region, contact the local Chair or Newsletter Editor or through the relevant website: www.ieee.org/r8. Your help would be greatly appreciated.

Charles Turner
r8secretary@ieee.org

Photo Quiz

In the May issue of Region 8 News, we published a photograph taken at Croatia's Zagreb City Museum. The picture, of an early 1900s Ladies Hairdressing Salon, included a splendid looking hairdrier with adjustable fins, and an "Octopus" electric hair curling machine.

From many interesting entries the winner was judged to be Mohammad Shalan, who lives in Amman, Jordan. He writes:

"I am a Masters degree student in Communication Engineering at the University of Jordan's Electrical Engineering Department. Communications — particularly wide area networks

— TCP/IP traffic over ATM and MPLS — are my special interest for research.

"I have been an IEEE member since 2000 and I belong to several IEEE Societies: Communications, Computer, Engineering Management and Women In Engineering."

Mohammad wins an IEEE Millenium SWATCH, donated by QUARTZ-WATCH, whose Web site is well worth a visit: <http://www.quartzwatch.ch>.

September Photo Quiz

The familiar red car in our picture is being tested by Formula I world champion Michael Schumacher. The challenge this time around

is to describe the electrical and electronic systems on his car. Tie break: Why are the three radio antennae (the stubs visible in

front of Michael's head) needed?

Please email your answers to R8News@ieee.org with the subject line

"September PhotoQuiz" before October 1, 2004.

And please don't forget to state your name and IEEE membership number!



IEEE Women in Engineering

— www.ieee.org/women

"Take Our Daughters to Work" Day

An electronics component distributor based in Preston, England is just one of the organization's supporting a UK scheme encouraging staff to take their daughters into the workplace for the day. CPC is supporting "Take our Daughters to Work Day," which is all about promoting awareness amongst girls of the diversity of the working world and encouraging and educating them about the range of jobs and careers they can pursue.

Research commissioned by Girlguiding UK into a cross section of girls aged 11-17 found that more than one in three feel their greatest hope for the future is "having a successful career." This is the most frequently mentioned aspiration by far, ranking

much higher than "being happy" and "having lots of money."

Yet despite knowing their futures are in their hands and continuing to excel in the classroom, girls generally focus on "traditional," low-paid jobs, ignoring a range of industries and career opportunities.

CPC marketing manager, Claire Maxfield, says: "Today, women make up almost half the workforce, so any organisation that wants to recruit the best employees in future must ensure it is encouraging women to apply. This means 'selling' them what they have to offer in terms of job range, career opportunity, personal development and so on. 'Take Our Daughters to Work' Day gives girls an idea of the many different types of work

that are available, many of which they may not have considered."

Any girl who is supported by her parents and school can take part in "Take Our Daughters to Work" Day but in practice most will be between 10 and 16 years old. Girls can either shadow a parent, relative or friend for a day, or shadow several individuals to get a real taste of the world of work.

Letter from Clementina

It is my singular honor to be appointed coordinator for *Women In Engineering* in Region 8. This region has a diverse, heterogeneous group of professionals and students. WIE is dedicated to promoting female engineers' participation and progression in the IEEE and in engineering.

My first efforts will be to design the Region's WIE

website. Kindly send me any suggestions on how you want WIE to serve you. What specific problems do female engineers have in your section and how do you think the IEEE can help? My aim is to ensure that you get the best from your membership.

Clementina Saduwa
Clementina@ieee.org
 Regional Coordinator WIE



© 2004 Copyright Tayfun Akgul

Establishing IEEE standards for global business

Globally recognized standards are the fundamental building blocks for international trade. Only through the use of such standards can the requirements of interconnectivity and interoperability be assured and the credibility of new products and markets verified.

How to order a standard

The best way to order a standard is to do use the

Standards Europe portal: www.standardseurope.net/portal/index.jsp.

For a numerical listing of all the IEEE's Standards, click on IEEE Standards Online > Login.

For a technology listing of IEEE Standards, click on Standards Online > Portfolio.

Standardization is recognized as an essential discipline for all global market players who must

strive to be competitive. Today, companies have integrated standardization as a major technical and commercial element within business planning. They are aware that they must play an active role to assert their interests — or be prepared to accept standards established without them.

How to participate in standards development

Standardization work

is done within Working Groups. To get knowledge of what happens in a certain area, just click IEEE Standards Association > Standards Development/ Working Groups and Committees.

To find information about joining a Working Group, Code and Conduct, Meetings and Patents, click Standards Development > Working Group Development.

Participating in standardization work brings many advantages. These include: influencing the process and content of a standard; gaining early access to information about its final specifications; and, last but not least, networking with experts and/or companies doing business in the same field of interest as yourself.

*Ingo Ruesch
R8 Standards Coordinator*

REMINDER CALENDAR Workshops, Conferences and Symposia in Region 8

IRMMW 2004

29th International Conference on Infrared and Millimeter Waves

September 27-October 1, 2004

Karlsruhe, Germany

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

<http://www.ihe.uni-karlsruhe.de/irmmw2004>

REV 2004

International Symposium on Remote Engineering and Virtual Instrumentation

September 28-29, 2004

Villach, Austria

Remote engineering and virtual instrumentation, use of virtual and remote laboratories for advanced e-working environments.

m.auer@ieee.org

<http://www.online-lab.net/rev>

ICL 2004

7th International Conference on Interactive Computer Aided Learning

September 29-October 1, 2004

Villach, Austria

Contact: m.auer@ieee.org

<http://www.icl-conference.org>

DIPED 20004

Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory

October 11-14, 2004

Tbilisi, Georgia.

Contacts: Mykhaylo Andriyчук and David D. Karkashadze

andr@iapmm.lviv.ua, lae@access.sanet.ge

5th International Conference on 3G Mobile Telecommunication Technologies

October 18-24, 2004

London, UK

Technical forum for 3G mobile and related technologies will bring together researchers and technologists to share the latest information and promote 3G.

Professor Marwan Al-Akaidi, De Montfort University, Leicester, UK.

<http://www.cse.dmu.ac.uk/communications>

CRIS 2004

Securing Critical Infrastructures: 2nd International Conference on Critical Infrastructures

October 25-27, 2004

Grenoble, France

<http://www.cris2004.com>

2nd IEEE-GCC 2004

Advancing Technology in the GCC: Challenges, and Solutions

November 23-25, 2004

Gulf International Convention and Exhibition Centre

Manama, Kingdom of Bahrain

<http://www.ieeegcc.org/>

IEEE ICIT 04 – TUNISIA

International Conference on Industrial Technology

December 8-10, 2004

Hotel Le Royal,

Hammamet, Tunisia

<http://www.icit2004.com>

ICMSAO 2005

Conference On Modeling, Simulation, & Applied Optimization

February 1-3, 2005

American University of Sharjah,

United Arab Emirates

<http://www.ausharjah.edu/media/icmsao/>

IEEE ICT2005

12th International Conference on Telecommunications

May 3-6, 2005

Capetown, South Africa

<http://www.ict2005.co.za>

ISIE 2005

IEEE Symposium Industrial Electronics

June 19-22, 2005

Dubrovnik, Croatia

www.isie2005.org

St. Petersburg PowerTech 2005

IEEE Power Engineering Society

St. Petersburg PowerTech 2005

IEEE Power Engineering Society

St. Petersburg, Russia

June 27-30, 2005

<http://www.sei.irk.ru/>

IPCC 2005

IEEE Professional Communication Society Making Connections

July 10-13, 2005

Limerick, Ireland

<http://ieeeps.org/limerick>