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Meet Our New Director, Baldomir Zajc....

A dilemma: Has the Regional Director primary responsibility toward IEEE as a whole or toward the Region, its Sections and members? Should he seek preferential conditions for them?

I could never distinguish between these choices as if they were on different banks of the river, trying to connect them. For me the constellation is one – because IEEE is not self-consistent without us, its members, and we need the best technically qualified, professional organization to assist our professional careers. So each member is also expected to help to build the central institution to get the best possible benefits back later.

Your Regional Director knows the expectations and possibilities in his Region. He is able to propose the best available solutions to the Regional Activity Board and other IEEE bodies such as the Educational and Technical Activity Boards, and others. He is advised all the time by individuals from his own Region.

Members in IEEE Regions have very different expectations. For example, IEEE services like insurance, employment opportunities, etc. are widely used in Regions 1 to 7 in USA and Canada but are not so practical in the regions outside North America.

Publications are the primary motive for the ma-



majority to become IEEE members. Every engineer needs technical literature for his/her development. Some also need to publish.

Life-long education is also the fate of each engineer. Acquired knowledge gets stale overnight. I finished my first degree when electronic tubes were still up to date. Then came transis-

tors and a need to gain new knowledge. I continued my study at Berkeley learning primary integrated circuit design. What happened? VLSI chips with millions of transistors. IEEE offers us educational packages, lectures, videos and even free on-line courses. IEEE Standards, too, are very important and members are encouraged to participate in their development.

IEEE conferences offer significant benefits to professionals, members and non-members. Some are specialized events organized by IEEE Societies, Regions, Sections, Chapters. In recent years Region 8's conferences – EUROCON, MELECON and AFRICON

– have been upgraded to a new level. Together with technical programs they offer workshops, tutorials, educational activities and also training on personal skills development. Last year IEEE Region 8 produced a promotional CD with information about our institute for members and for potential members.

I feel that engineers join IEEE because of a rich variety of available services needed every day in their professional life. It is our duty to develop services all the time all together to be even better and better.

*Baldomir Zajc
Region 8 Director
Professor, University of
Ljubljana, Slovenia*

Over 600 International Delegates Attend IEEE-GCC Conference

Over 600 international delegates flocked to the second IEEE-GCC Electrical & Electronics Conference in Bahrain, November 23-25,

2004 – a 40% increase over the first conference held the previous May.

November's conference, under the patronage

of His Highness, Sheikh Khalifa bin Salman Al-Khalifa, Prime Minister of the Kingdom of Bahrain, had the theme: "Advancing Technology in the GCC: Challenges and Solutions."

The conference program included eight plenary sessions and 26 technical sessions covering 136 papers from dozens of countries worldwide. Professionals and researchers shared their outlook for current and future developments of technology in the Gulf, and an exhibition showed what's new from 40 regional and international companies.



Nabil Al-Dabal Chairman of the Conference and Chairman of Saudi Arabia Section, East

EUROCON 2005 – The International Conference on "Computer as a Tool"

Computer-Aided Design, Simulation, Modeling, Signal Processing, Information and Communication Technologies, Knowledge-Based Systems
November 21-24, 2005

Sava Center, Belgrade, Serbia & Montenegro
IEEE Region 8, YU IEEE Section
Telecommunications Society, Belgrade
School of EE, University of Belgrade
<http://www.eurocon2005.org.yu>
office@eurocon2005.org.yu



<http://www.belgradetourism.org.yu>

There are many good things about being a volunteer in any organization. The opportunities open up. Suddenly you become responsible for an entirely different line of work. And it is very satisfying when everything turns out okay.

So when I tune in the radio, or RealPlayer or another Internet feed on my computer, it makes me think.... Should I write something about current affairs? The Tsunami; the fighting; the world condition; and reflect on what part our members -engineers; designers; teachers; students have to do with it. Well what can one say? Quite a lot.

So what should I say?

If I'm typical of our profession, the needs and misfortunes of others affect me genuinely. The great duty we have is to use our knowledge, education, and skills to good purposes as responsible citizens.

One way to get involved is through the IEEE. If you are new to IEEE, you may like to know that most of our publications, conferences, and activities result mainly from volunteer effort.

On January 1, a new operating committee for R8 took office. Please welcome our new Director, Baldomir Zajc; new Secretary, Christian Borgert; new Treasurer, Brian Harrington; new VC Membership Activities, Jaafar Al-Ibrahim; new VC Student Activities, Marko Delimar; and new VC Technical Activities, Jozef Modelski. All of them volunteers.

In these pages Baldomir Zajc tells us how we should influence the IEEE to give better value to members in our Region. Elsewhere, Christian Borgert invites you to contact him so that we get some real improvements to our IEEE services.

I am glad that Basak Yuksel has agreed again to be Editor of R8Student News. She has a wide understanding of what is happening around our region and would be delighted to hear from you.

After a brief absence, Photo Quiz returns. Try your luck in identifying the picture! And remember to send in your stories and ideas to Region 8 News!

Roland Saam
r.saam@ieee.org
January 20, 2005

A 10 Euro Donation to an Orphanage Gets You the New Book From Our Cartoonist Tayfun Akgül

Tayfun writes: "I am a board member of Nesin Foundation, an orphanage established by one of the most famous Turkish writers, the humorist Aziz Nesin (1915-1995).

See <http://www.turkish-lit.boun.edu.tr/author.asp>.

"To anyone who donates 10 Euros or 20 TRY Turkish

New Lira to the foundation via <http://www.nesinvakfi.org>

(please click 'Credit Card Donation'), I will mail a copy of my book. (Mention 'Cartoon Book' with your donation.)"

The address: Nesin Vakfi, PK 5, Catalca Istanbul, Turkey. Email: nesinvakfi@turk.net.



Correction

In December's Region 8 News, the "postcard" on page 12 was from Brasov, Romania, *not* Bucharest as stated. The IEEE member holding up the wall in the company of Tony Davies and Svetlana Rau was George Toacse from the University of Brasov.

IEEE Region 8 News

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

Region 8 Web site: <http://www.ieee.org/r8>

Information HELP Desk: member-services@ieee.org

REGION 8 OPERATING COMMITTEE

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

EMAIL ADDRESSES OF REGION 8 COMMITTEE OFFICERS 2005/6

Officers and Vice Chairs

Director
Baldomir Zajc
b.zajc@ieee.org

Past Director
Tony Davies
tonydavies@ieee.org

Secretary
Christian Borgert
c.borgert@ieee.org

Treasurer
Brian Harrington
b.harrington@ieee.org

VC Membership Activities
Jaafar Al-Ibrahim
jaafaribraham@ieee.org

VC Student Activities
Marko Delimar
m.delimar@ieee.org

VC Technical Activities
Jozef Modelski
modelski@ieee.org

Appointed Members

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

Conference Coordinator
Peter Farkas
p.farkas@ieee.org

Chapter Coordinator
Ninoslav Stojadinovic
nstojadinovic@elfak.ni.ac.yu

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

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

Electronic Communications Coordinator
Jeremy Newberry
r8webmaster@ieee.org

Industry Relations

Jean Gabriel Remy
jean-gabriel.remy@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
Ricardo Varela Iglesias
phobeo@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 – Headquarters: 3 Park Avenue, 17th Floor, New York 10016, USA. It is distributed free with IEEE Spectrum to more than 50,000 IEEE members. If you need extra copies for distribution at IEEE events, please send your request by email to the editor before the deadline (see below) and 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 as high resolution (300dpi) 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>.

Deadlines for upcoming issues of R8 News are:

June 2005 issue: April 1, 2005

September 2005 issue: July 1, 2005

December 2005 issue: October 1, 2005

March 2006 issue: January 1, 2005

IEEE EMBS Review and Plans 2005!

On December 4, 2004, together with the IEE, the Engineering in Medicine and Biology Chapter held a symposium – “Blind Source Separation (BSS) and Independent Component Analysis (ICA)” – at the British Institute of Radiology in London. We learned about the diverse implementations of the BSS and ICA techniques, and their practical implementation in biomedicine.

Coming up in 2005:

- Signal Processing Applications in Clinical Neurophysiology – February 22. <http://www.ipem.org.uk/meetings/2004.html>.
- International Workshop on Wearable and Implantable Body Sensor Networks – April 12-13 at Imperial College London. <http://www.doc.ic.ac.uk/vip/bsn>.

EMBS UKRI web pages can be found here: <http://ewh.ieee.org/r8/ukri/embs/>.

The EMB Society also seeks nominations for its annual awards listed here: <http://129.94.131.101/embs/awards.html>. The awards will be presented at the 27th IEEE EMBS Annual International Conference next September in Shanghai. Please contact me if you would like to receive the monthly EMBS newsletter.

Best regards,
Christopher James
Chair, UK & Rep. of
Ireland Chapter,
IEEE Engineering in
Medicine & Biology
Society
Europe Representative,
IEEE-EMBS ADCOM
jamescj@soton.ac.uk

IEEE Joint IAS/PELS/IES German Chapter

Some 50 participants attended our meeting on November 11-12 hosted by Hamburg University of Applied Sciences, HAW, and the German Electron-Synchrotron, DESY. There were three technical lectures:

- Ingo Ruesch – “Standards is a Global Business for the IEEE”
- Hans-Joerg Eckoldt, local chair and DESY area manager, spoke on the new X-ray free electron laser (XFEL)
- Our third speaker told us about research activities and the potential for using XFEL to study chemical processes in three dimensions.

A guided tour of DESY followed the lectures.



Members of the PESC '04 Organizing Committee express their gratitude to the Chapter with a check. (L-R) Rik W. De Doncker, PESC '04 General Chair; Ralph Kennel, Technical Program Chair; Peter Magyar, IAS/PELS/IES German Chapter Chair; Heinz van der Broeck, Financial Chair; and Hans Kahlen, Exhibition Chair.

On the second day, participants learned about teaching methods and research in the field of

electrical drives and power electronics. The final highlight of the meeting was a VIP visit to the assembly

line at Airbus Deutschland GmbH where Dr. Scherer gave everyone an introduction to the new A380 aircraft. An inside visit of the huge factory halls left us a lasting impression of high tech manufacturing and the considerable dimensions of the coming generation of airplanes.

The successful sequence of chapter meetings will continue throughout the year: April 7-8 in Wuppertal; June 2-3 in Lausanne; and September 29-30 in the Megawatt Pump Storage Plant, Goldisthal.

For further information, please visit our homepage at <http://www.ewh.ieee.org/r8/germany/ias-pels>.

Report by Ingo Hahn

IEEE Germany Section

Founding of the IM Chapter

The Instrumentation and Measurement Chapter held its first meeting on December 3, 2004. The aims of the new Chapter are to exchange knowledge and

10, 2005, in Munich. There will be a further meeting during the Test+Sensor Conference, May 10-12 in Nuremberg.

All members of the IEEE and colleagues interested in instrumenta-



tion and measurement are welcome to any of these meetings. More information will be published in due course at <http://www.unibw-muenchen.de/IMC/>.

A survey form will shortly be sent to all IM Society members in Germany. Your early response will be greatly appreciated!

The next Chapter meeting will take place on March

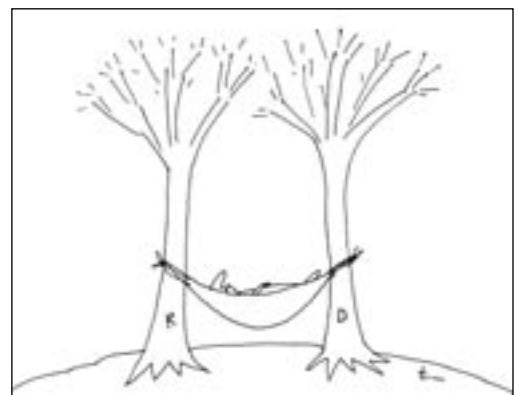
Chair: Olfa Kanoun
kanoun@ieee.org
Vice Chair: Heinrich Ruser
heinrich.ruser@unibw-muenchen.de

Congratulations!

Region 8 Members Win Annual IEEE Awards

The IEEE Edison Medal (sponsored by the IEEE Foundation) is awarded to Peter Lawrenson (Life Fellow) – a private consultant in Yorkshire, England – for “outstanding contributions to the field of electrical machines, most notably the development and commercialization of switched reluctance drives.” Peter is a member of the IEEE Industry Applications, Industry Electronics, Magnetics, Power Engineering and Power Electronics Societies.

For their paper entitled “Microfabrication Techniques for Chemical/Biosensors” published in the proceedings of the IEEE, June 2003, the IEEE Donald G. Fink Prize Paper Award goes to Oliver Brand (non-member), Georgia Institute of Technology, Atlanta, GA; Christoph Hagleitner (non-member), IBM, Ruschlikon, Switzerland; and Andreas Hierlemann (non-member), and Henry Baltes (Fellow IEEE), Professor of Physical Electronics, both of ETH Zurich, Switzerland.



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The Beginning of a "New Era"?

R8's newly elected officers need you to put ideas forward on a worldwide level to enhance the IEEE and its membership benefits.

The Region 8 Secretary's job has two sides: I intend my secretarial functions to operate smoothly; I also will use my office to make membership more valuable for all of us.

My line of work is to develop business for semiconductor products. Business travel takes me around the world and I love to meet people. I would be glad if you accept me as your channel to express your needs, ideas and concerns. Please email c.borgert@ieee.org or fax +49 (180) 50 60 34 00 35 24.

Here are some suggestions to improve the quality of your IEEE membership:

- Web site: <http://www.ieee.org/r8> is a great source of information. Please contact our Electronic Communications Coordinator Jeremy Newberry or me if you would like to publish information on the site.
- Members' Data: It's important that membership information is accurate. You can manage yours at <http://www.ieee.org/myieee>.
- Graduates: Please help us to keep in contact after graduation on <http://www.ieee.org/graduate>.

www.ieee.org/graduate. Update your record on graduation this year and you could win a year's subscription to the IEEE Member Digital Library.

- Extras: IEEE continues to expand services to members worldwide; eg, changes in the Financial Advantage Program (<http://www.ieee.org/fap> and <http://www.ieeeinsurance.com>). Let me know which other services you would like to see extended to Region 8. Please contribute your ideas to October's IEEE Sections Congress in Tampa (<http://www.ieee.org/organizations/rab/sc/2005/>).

- Awards: We should tell the IEEE world how good R8 is by nominating more candidates for IEEE Awards (<http://ewh.ieee.org/reg/8/awards.html>). We can strengthen our reputation worldwide by getting more awards into our region – and there is money on the table!

My goal is to improve the quality and the benefits of IEEE Membership in Region 8. Tell me your thoughts on that.

Christian Borgert
Secretary IEEE Region 8
c.borgert@ieee.org
r8secretary@ieee.org



Charles Turner (left) congratulates our new Region 8 Secretary, Christian Borgert

IEEE Romania Section

On June 29-30, 2004, George Gross, Prof. University of Illinois at Urbana-Champaign, presented two talks on the key developments in electricity markets. Safe and reliable operation of power systems in the new competitive environment was a key theme.

"Congestion in Power System Operation"

Congestion in the transmission network has become a critical problem for electricity markets – a barrier to vibrant competition. Consequences range from the way the system is operated, to the behavior of each market player. This may prevent use

of lowest-priced resources to meet the demand and may also encourage a particular seller to exercise local market power.

Throughout the talk, a good intuitive explanation of the impacts of congestion was given. The role of price-responsive demand in the mitigation of the possible exercise of market power was emphasized.

"Transmission Issues in Electricity Markets"

Profound changes have come to the transmission sector as a result of restructuring and electricity liberalization. The major issues focus on the need

for incentives in investment in infrastructural components, the role of reliability and the effective integration of distributed energy resources (small local generation sources and demand participation). The presentation also reviewed some of the lessons learned from the recent blackouts that have affected many countries.

Prof. Gross' visit was part of the IEEE Distinguished Lecturer program and he went on to deliver further presentations in Russia and Hungary.

Mircea Eremia, Professor
Chair of IEEE Romania PES Chapter



IEEE Croatia Section

For the first time in Region 8 a "Trainer in Project Management and Leadership Skills" workshop, was presented and led by Margaretha Ericsson and Kurt Richter in Zagreb, October 22-24, 2004. Ten IEEE members from five countries (UK, Slovenia, Croatia, Serbia and Montenegro, and Turkey) participated. The intention is for those leaders to bring their skills and train members in their own Sections. Another "First" for Region 8.

The workshop was organized locally by Sonja Zentner Pilinsky and Aleksandar Szabo. The new

trainers may be able in future to conduct workshops on Leadership and Management in their IEEE Sections or in neighboring Sections in English or in their local language. At the end of the workshop all participants received a certificate signed by their trainers showing the successful participation in the Train the Trainer Workshop.

In a follow-up action, four of the new trainers, Iva Gojmerac and Tanja Koletic from Croatia, Nikola Milivojevic and Dragan Saletic from Serbia & Montenegro carried out a Leadership and Management work-

shop in Belgrade during the TELFOR conference on 24 November 2004. The very successful local organization was thanks to Nikola Milivojevic. The workshop attracted more than 60 participants who were very satisfied as was Kurt Richter who acted as the workshop supervisor. The large number of highly interested participants demonstrated again the need for these workshops especially for young people (students in the higher semesters and young engineers).

Aleksandar Szabo
IEEE Croatia Section Chair
a.szabo@ieee.org

Minimize the Idle Run

The first meeting of GOLD members together with student members took place on Monday November 15, 2004 in the assembly hall of the Faculty of Electrical Engineering at the Czech Technical University in Prague.

Dr. Rostislav Benak, a specialist in management psychology, spoke on "Personal Satisfaction or How to Handle Our Energy Effectively". Dr. Benak's presentation focused on how we can manage everyday tasks and problems smoothly and efficiently.

In his talk, Dr. Benak stressed the necessity of thinking positively, and explained how it is always better to finish one task rather than dissipate our energies trying to handle several different tasks at the same time. As he puts it, we should "minimize the idle run;" learn how to

determine which 80% of our work can be done by spending only 20% of the time and energy needed for the whole task. Dr. Benak said that on our way home or during our free time in the evening, we could be summarizing our daily gains and failures and formulating a plan on the basis of this summary.

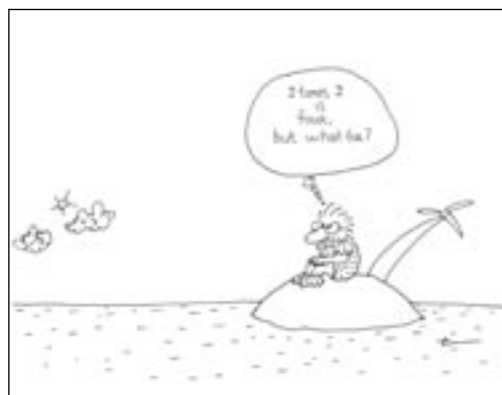
The discussion after the lecture, over a glass of good wine, sandwiches, and other light refreshments, was very pleasant and unhurried. I am delighted to report that the meeting achieved our stated goal of bringing people together, exchanging ideas, networking or just having a chat.

We hope you will be able to join us next time!

Jan Machac
Czech Technical
University in Prague
GOLD Officer
machac@fel.cvut.cz



Management psychology specialist Dr. Rostislav Benak



GOLD in Siberia

The GOLD Affinity Group in Siberia Section was established in December 2001. After three years' significant growth, the group changed leadership. I'd like to invite you to meet our new GOLD Chair, Evgeniy Golovin, elected at the Siberia Section Meeting on December 22. Evgeniy is very active professionally and would like to hear from you. His email is seversk@ieee.org.

Nowadays group membership has increased with the addition of post-graduate students. Most are affiliated with different professional Societies: ComSoc, MTT-S, ED-S, etc. In fact, the GOLD group has become the largest IEEE unit in Siberia.

Our main event for 2005 is the IEEE Siberian Conference on Control and Communications (SIBCON),



Russian participants at the Student Branch and GOLD Congress in Passau, Germany

October 21-22, 2005. Call for papers on the Web is http://ieee.tusur.ru/files/activities/sibcon2005_call_en.pdf.

We will also hold our annual Student Paper Contest and Conference on Information Security, SIB-INFO. For more information about these events, please look at our Web site [http://](http://www.comsoc.org/tomsk)

www.comsoc.org/tomsk.

This is my last message as GOLD Chair. GOLD changed my life, it brought me many friends and a wonderful time. I appreciate very much the fruitful cooperation with each of you during my GOLD activity.

Oleg Stukach
Tomsk, Russia
tomsk@ieee.org

IEEE GOLDen Pre-University SET campaign, South Africa

At the Spring Region 8 Meeting of 2004, a GOLD project was approved for the South Africa Section to promote Science, Engineering and Technology (SET) at pre-university levels.

Motivation: At the Science Expo for Young Scientists held at the University of Pretoria, South Africa in 2003, two things became particularly clear: the general standard had deteriorated and there were very few participants from disadvantaged communities.

Strategic solution

Our GOLD committee worked out a strategic solution using engineering problem solving techniques. We knew that experiments or science projects motivate learners to assist theoretical understanding. We expected outcomes to be retained better if applied or implemented practically.

General lack of motivation in SET is a rather wor-

rying aspect at school level. We tried to change this by introducing an entrepreneurial opportunity

Project management is also becoming more important. Time, resources, cost, and quality were integrated with better planning of available resources. Ways of increasing resources (funding) can also be covered ("converting a project to a product").

Limited resources

Sadly, one of our problems is a continuing lack of resources – especially with regards to project presentation. While it may have represented only a small part of the evaluation, presentation was seen as being critically important for marketing and communication and so had to be given serious consideration!

Several IEEE student members and staff from the University of Pretoria joined young GOLDies from

industry. We feel these goals were achieved:

- Improved social education commitment in a South African context
- Working with learners from previously disadvantaged communities and better understand the diversity in South Africa
- Increased visibility of IEEE at school levels

Powerpoint download

Our Powerpoint presentation – *Pre_university_education_online.ppt* (26MB) – is available for download at <http://phobos.ee.up.ac.za/~elk220/IEEE/>.

The Autumn Region 8 meeting approved continuity funding of US\$2,500 for the SA Section. Our GOLD group will co-ordinate this project with support from local student branches & the University of Pretoria.

Saurabh Sinha
Past GOLD Chair,
South Africa Section

Hi all! We're together with the first issue of 2005! Hope the New Year will bring us peace and health. In this issue, we have news from different student branches in different countries such as Russia, Sultanate of Oman, Serbia & Montenegro, Turkey, Kenya, Lebanon, Nigeria, Egypt, South Africa, France, Spain and Poland. Also, we have welcoming messages



from our new Vice Chair of Student Activities, Marko Delimar and Student Rep-

resentative, Ricardo Varela. As a student representative, my term ended at the end of December 2004. I had lots of fun and enthusiasm by communicating with all of you. It's great fun to know all of you! I will stay in the Student Activities Committee and will continue to help and bring you benefits and news from IEEE.

It's wonderful to see that IEEE student member-

ship gives us international taste and opportunities plus to local benefits. This year, in addition to annual regional events such as web site contest, chess contest, student paper contest, etc, we're going to have a Regional Robotics Competition in cooperation with IEEE GOLD and also IEEE Robotics and Automation Society. You will hear more about this soon!

Final words for this issue... Both for R8 SAC team and for all student members in our region, send us your feedback and your opinions; what you want more, what you want to be changed. What you want to discuss and what you tell is really important for Region 8 SAC team.

*Best regards,
Basak Yuksel*

R8 Student News Editor

Did You Know?

Recognize your active student volunteers! IEEE Student Awards & Beyond....

The official structure of the executive committee of a Student Branch (SB) does not contain a "SB Awards Officer." Without doubt, though, the basic foundation of a SB is its active volunteers and contrary to the popular belief that true volunteers do not need incentives, it is our opinion that volunteers must be given recognition.

Such recognition need not be expensive, but something that makes volunteers stand out and provides positive motivation to others to be outstanding themselves! Several SBs have been very successful in recognizing their active volunteers. others have not.... yet!

Recognition need not always be supported with an award. However, extraordinary work should never go without a physical award, or perhaps a mention on a very prestigious occasion, accompanied by publicity for the achiever.

Here are more ideas for recognizing the work of volunteers:

- Give them certificates of appreciation, awards or related incentives.
- Mention them on the Internet, in R8 News or the SB Newsletter.

- Arrange members' breakfast or lunch meetings for them and, if possible, invite some Section-level officers.
- Send them thank you letters from the executive committee.
- Hold an ice cream social!
- Put something in their personnel files.
- Send a note to their supervisors or the institute hosting the SB.
- Take their picture and put it somewhere everyone can see it.

Another role that the Awards Officer can fulfil is to monitor and publicise the IEEE Student Concourse for Awards! However, Region 8 takes further initiatives than awards on the concourse! For a listing of these awards (for individuals, for volunteers, for the SB, etc) visit the IEEE Student Concourse (<http://www.ieee.org/students>) and the IEEE R8 SAC Awards Web site: <http://www.ewh.ieee.org/reg/8/sac/r8awards.php> Have questions, suggestions, and queries? Feel free to contact us!

*Saurabh Sinha
ssinha@ieee.org
R8 SAC Membership
Development & Awards*

From the new Vice Chair, Region 8 Student Activities....

Hola amigos! To tell you the truth, of all the volunteer jobs in IEEE, Student Activities appears to be the most fun and rewarding. I truly think all of us involved with Student Activities really enjoy our work... And it shows!

I am very happy to be working with such a group of cool people. I would like to use this opportunity to thank them all for the great work they do. Also, I would like to specially thank Pilar for recruiting me to Student Activities in the first place, but most of all for the wonderful atmosphere she has been creating during her term as Chair.

Student Membership

We can now safely conclude that the students in Europe, Middle East and Africa have realised that IEEE Student Membership is more valuable than ever. Our membership has been growing at an incredible rate throughout 2004 and we expect even more growth during the coming year.

Here is where we are going to ask for a little help from you. We just can't think of a better person in the world to present the IEEE to your friends and



colleagues than YOU! Talk to them – let them know what you know! Tell them why you are a member – share your IEEE membership with them! At the end, help them to join and don't forget to include your name on their membership application.

As an IEEE member, you are a part of the world's largest technical professional society, with access to the industry's most essential information, networking opportunities, career development and many other exclusive benefits. Most of all, we like to look at the IEEE as a family of students and professionals.

Volunteering

One of the greatest values in IEEE is volunteering, so why not get involved with your Student Branch and

discover all the fun you can have?

We are preparing a great many new activities in 2005. Please stay in touch with us: visit the SAC web site and your IEEE R8 Student Virtual Community regularly, we have some very interesting discussions and polls there. Also remember to subscribe to our announcements list: r8students@ieee.org. Communicate with your peer students in Region 8!

More Proposals Needed

Finally, let me just say that even though we have not yet recovered from the great Student Branch Congress in Passau, Germany, we are calling for those brave Student Branches to prepare new proposals for the 2006 SBC. Passau was truly great! Let's see if you can beat them!

Remember, we are here for you, so share with us. We greatly appreciate your input and all questions and comments are very welcome. Contact us at r8sac@ieee.org. We'll be happy to serve you!

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

AAST IEEE Student Branch, Alexandria, Egypt

Greetings to all the Region 8 Student Branches from Arab Academy for Science and Technology (AAST) IEEE Student Branch! After a very active start of our branch last year, we thought we should share some of our activities with you.

Tomorrow's Wireless World

During October 8-9, 2004 we organized the workshop "Tomorrow's Wireless World" in collaboration with our friends from the Alexandria University IEEE SB. The workshop introduced us to the technologies behind the development of wireless communications. Special thanks to Prof. Dr. Yousry El-Gamal, Vice-President for Education and Research.

For more information about this event please visit us at <http://www.ieee-aast.info/>.

Realizing that many junior students at our university have difficulty using some electronics software packages, we decided to start PSPice and EWB Tutorials. In cooperation with the Electronics Department, we managed to arrange these tutorials which were presented by our leading SB Technical Committee.

Also to promote learning and highlight the applications of electronics and computer engineering, we thought that our teachers assistants (TA's) could help to explain to the students some real world engineering problems. We therefore held eight seminars in one week

during breaks in our the lectures. Topics discussed during the week included robotics, biomedical engineering, networking, security and mobile communications.

Our First WIE Event

Welcome to the Women in Engineering SB Chapter! We are arranging our first WIE event and would like to cooperate with other WIE student branches throughout Region 8.

Our SB Newsletter team has been working hard. We now issue a bilingual newsletter in English as well as Arabic.

To conclude, we are already planning future Student Branch activities. Hopefully by the time you read this, we will have ar-



The workshop organization team with our AAST SB Counselor, Prof. Dr. Roshdy AbdelRassoul (center right) and Dr. Mohab Mangoud (center left)

anged a number of events including a trip to the Smart Village in Cairo, a Student Branch Contest, and a major professional awareness workshop. We have learned from all this that leading an

active IEEE Student Branch is a great joy!

Warmest regards,
Hatem Abou-zeid and
Serage Betelmal
hatemraz@ieee.org
sbetelmal@ieee.org

Caledonian College of Engineering, IEEE Student Branch, Sultanate of Oman

Dr. Abdul Nasser Hossen, Professor at the Electrical & Electronic Engineering in Sultan Qaboos University (SQU) officially opened the IEEE Student Branch at the Caledonian College of Engineering (CCE), at a ceremony held at the College. Dr Nasser also delivered a technical lecture on 'Bio-Medical Signal Processing and Sleep Apnea' to a large gathering of students and faculty members.

In the opening address, Professor Frank McIntosh,

Principal and Dean of the College mentioned the move of the college by initiating the formation of IEEE body. Recalling his college days, he also outlined some of the benefits he had and the knowledge he had by being a part of IEEE. Principal McIntosh also thanked SQU, having the first and only other IEEE student branch in the Sultanate of Oman, for their support in forming the student branch.

Mr. Abdul Aziz Juma al Shukaili, representing the

SQU, outlined the functions of the IEEE student branch both at SQU and Sultanate of Oman. Mr. V. Ilankumaran, the CCE IEEE Student Branch Counselor, introduced the newly elected officers: Mr Ahmed Mohamed Al Bahri, Chairman; Mr. Aziz Al Bimani, Vice Chairman; Ms Reem Saif, Secretary; and Ms Basma Essam, Treasurer, to the audience.

IEEE is a famous worldwide forum for researchers and scientists. Students joining the organization benefit from it by obtaining good technical and personal development tools. IEEE Student Branch also gives students a rare opportunity to meet and learn from fellow students and from experienced professionals in the field of Electrical, Electronics and Computer Engineering. We're glad to have been formed and become a part of IEEE family.

With regards,
V. Ilankumaran
IEEE Branch Counselor



An instance from Opening Ceremony of Caledonian College of Engineering IEEE Student Branch

Wroclaw University of Technology SB

Hi all! I'm a PhD student at the Faculty of Microsystems Electronics and Photonics at Wroclaw University of Technology and also chairman of our IEEE Student Branch. We are proud to inform you that we are organising the 2005 International Students and Young Scientists Workshop "Photonics and Microsystems".

Scientific Cooperation

This workshop is planned for about 50 participants and it's going to be held on June 7-8, 2005 in Dresden, Germany as a result of several years of scientific cooperation in the field of microelectronics and photonics between Dresden University of Technology and Wroclaw University of Technology.

IEEE Conference Proceedings will be published after the workshop and

an electronic version of the complete papers will also be made available online in IEEE Xplore, just as it happened after our 2004 event. I also have got to mention that we were contacting with IEEE Poland Section, regarding the Workshop.

A Warm Invitation

We warmly wish to invite IEEE student members (Eng, MSc, PhD) and young researchers interested in photonics & nanotechnology issues to participate in the 2005 International Students and Young Scientists Workshop "Photonics and Microsystems" workshop. More information can be found at <http://www.avt.et.tu-dresden.de/photonics-workshop>. We look forward to meeting you there!

Best regards from
Wroclaw,
Rafal Dylewicz

Engineering Students Exhibition, Kenya

The fifth Engineering Students Exhibition was organized by IEEE East African Section and Centurion Systems Limited on October 16, 2004 at the Sarit Expo Centre, Kenya. Kevit Desai, the Director of Engineering of Centurion Systems Limited is the Chairman of IEEE East African Section and the organizer of the event.

The theme of the exhibition was "Making Technology Work For You" and the exhibition was aimed to encourage students to develop engineering skills and improve their understanding of technology. 40 student projects participated and visitors were engineering managers with leading companies who could meet participating students and discuss career opportunities.

There were also participants from overseas and sponsorship of IEEE Region 8. The list of exhibits includes a communication system project entered by Makerere University and an entry from Saudi Arabia.

The event aimed to link industry with colleges, polytechnics and universities and helped to make engineering training more relevant to the requirements of employers. The judging of the exhibition had opened by John Waweru, the Telkom

Managing Director. The panel included Gerhard Hancke, the Chairman of the Computer Engineering Programme at the University of Pretoria.

Hesbon Ongira from Moi University won the top place in the ICT category at the fifth annual Engineering Students Exhibition. First place in the electronic engineering section was won by Mark Pikker from the Cape Technikon in Cape Town who demonstrated a solar panel tracking system which raises efficiency by aligning the panel to the sun's rays. Hesbon Ongira received a trophy, a certificate and a desk top computer donated by British Airways. Mark Pikker won an armful of awards and a ten thousand shilling cash prize presented by the Chandaria Foundation.

Commenting on the record entry of 40 projects, Gerhard Hancke said, "I am impressed by the high standard of the projects and the knowledge and enthusiasm of the students." The exhibition has great potential and will gain international recognition. IEEE will encourage and support the participation of students from outside East Africa for next year's event. We look forward to welcoming you there!

Kevit Desai



Participants and officials in Kenya's Engineering Students Exhibition

From the new R8 Student Representative....

Pozdrav svima! As every Shakespeare lover knows, the welcome ever smiles... Maybe farewell goes out sighing, too, but until then let me dedicate a smile to welcome you all to this issue of R8News!

I hope you don't mind if I borrow some lines to thank Pilar and Basak, not only for helping me and lots of other students to understand



IEEE better, but also for setting examples of leadership and volunteering... and what fun it can be! I'm extremely happy they have decided to stand all of us one more year and keep collaborating in the R8 SAC as Past Chair and R8 Student News Editor respectively. They've set the mark really high for Marko and me, but we promise we will try hard to set it even higher!

But now, as we all know brevity is the soul of wit, so let's get to the point! I would like to seize this opportunity to enthuse about this year's prospects. We have also started the R8 Students' Portal project to develop a tool that will help all of us

easily to share and get information. Talking about all this e-stuff, let me remind you that until March 15 you're still in time to enter this year's Web site contest. We'll probably seek collaboration from contestants too – a great way to show your abilities as Webmasters and content writers and earn up to \$1,000 for your branch. Go for it!

I'll be waiting to hear from you all. Until then... you know, parting is such sweet sorrow, that I shall say goodbye... until the next R8 News issue!

*Ricardo Varela Iglesias
Regional Student
Representative
phobeo@ieee.org*

Nigeria Section Chair visits University of Ibadan IEEE Student Branch, Nigeria

The University of Ibadan (UI) student branch recently hosted the Nigeria Section Chair Engr. Isaac Adekanye, Secretary Engr. Julius Aguni and Public Relations Officer Engr. Tunde Salihu. The visit began with a meeting between the University's Electrical & Electronic Engineering department officials with two student branch representatives in attendance, where the upcoming IEEE/HP Telecentre has extensively been discussed. The IEEE in collaboration with Hewlett Packard (HP) and Advanced Interactive (AI) donated a computer learning center to the University of Ibadan

to be equipped with fifty six computer systems, vsat, generator, free access to IEEE educational materials and lots more. As a pioneer project, its success is very crucial since it is expected to draw more donations to other regional student branches.

The section officers

later met with the student branch officers and members, where several important issues were discussed. A question and answer session followed and the visit ended with a lunch with the department lecturers.

*Dasola Oluje
Public Relations Officer
sb.unibadan@ieee.org*



Ibadan SB members with Nigeria Section Officers

Beirut Arab University IEEE Student Branch, Lebanon

Beirut Arab University (BAU) IEEE Student Branch organized an opening ceremony at the Gefinor Rotana Hotel, on Thursday November 4, 2004. Prof. Dr. Ibrahim Abdelsalam, Dean of BAU's Faculty of Engineering, delivered the opening speech.

Afterwards, Chair of the EE Department Prof. Dr Mahmoud El Jammal, in-

troduced the new Executive Committee. The committee presented its yearly plan in detail and the launching of the IEEE@BAU Web site. Abdallah F. Abdallah, Student Branch chair, also presented an award to the IEEE BAU LOGO contest winner. The "best growth award" won by the IEEE BAU branch for the year 2004 was mentioned to a

delighted audience. Finally, the EE Department's Faculty members cut a cake to commemorate the founding of the IEEE BAU branch.

The BAU IEEE student branch would like to thank all the individuals who made our opening ceremony successful, as well as all the participants.

*Abdallah F. Abdallah
IEEE BAU SB President*

IEEE Fatih University Student Branch, Istanbul, Turkey



On May 15, 2001, IEEE Fatih University Student Branch (FUSB) was formed through the outstanding efforts of Fatih University Electronics Engineering students and their counselor Prof. Dr. Kemal Fidanboyly. A year after its foundation, FUSB had reached 100 student members, a total that included students from other engineering and science disciplines.

FUSB's mission is to promote the creativity, development and information sharing in the Electronics Engineering field among students at the University. Its vision is to introduce IEEE and its benefits to students at the first step of their academic careers.

With this mission and vision in mind, FUSB has organized several technical and non-technical activities at Fatih University since its foundation. During March 18-22, 2002 FUSB organized its first Project Week, which included several design competitions and technical seminars. Some of these competitions involved the participation of engineering students from other technical areas. The technical seminars provided an

environment that enabled students to benefit from the experience of industry professionals.

During March 10-14, 2003, FUSB organized its second Project Week. Unlike the first, this Project Week included an Electro-Technology Exhibition in addition to the design competitions and technical seminars. The Electro-Technology Exhibition provided an opportunity for students to learn more about high-tech electronic products.

During April 19-21, 2004, FUSB organized a third Project Week. Again, this event included several design competitions and technical seminars.

IT Days

In addition to these activities, FUSB participated in the organization of Information Technology (IT) days held March 30-April 1, 2004 at Fatih University. Depending on the needs of its members, FUSB organized short courses on technical and non-technical topics such as MatLAB, PSPICE, Microsoft Office XP, PCB Print, etc.

Since its foundation, FUSB has also organized

several technical field trips and short courses for the benefit of its members. Some of the companies visited during field trips are: Mercedes Benz Turkey, Beko, Netas-Nortel Networks and Demireller Wind Turbine.

FUSB pays a lot of attention to maintaining good contacts with other IEEE Student Branches in Turkey. Hence in January 2003 FUSB executive committee members attended the National IEEE Student Branch Congress held in Eskisehir.

In March last year, FUSB participated in the IEEE worldwide student branch Web site contest and became the Region 8 winner. This success was accomplished through the hard work of FUSB Webmaster Murat Tuna Nalcaci and his design team.

IEEE Fatih University Student Branch invites other IEEE SBs in Region 8 to organize joint activities. For further information, please visit our web site at <http://ieeefatih.edu.tr>.

*Murat Tuna Nalcaci
Chairman, IEEE Fatih
University Student Branch
murat_nalcaci@ieeefatih.edu.tr*

ICALT 2004, IEEE Novi Sad SB, Serbia & Montenegro

As a student member of IEEE, I participated in the International Conference on Advanced Learning Technologies – ICALT 2004 and presented a paper. The conference took place August 30-September 1, 2004 in Joensuu, a lovely city in eastern Finland. The organizers were IEEE's Technical Committee for Learning Technologies, the IEEE Computer Society and the University of Joensuu (Joensuun Yliopisto).

One of the best conference key-points was to support various kinds of cooperation between academic communities and various lower levels of education. In particular, the TEDC workshop – Technology for Education in Developing Countries, offered a lot of presentations from the third world. Thus other participants and the audience learned more about interesting initiatives such as "AMUNET", a proposed network between universities and local schools in rural areas; "LuTec", a research program for local development of new tools and strategies for education, as well as other projects and ideas.

After the main part of the conference, those who wanted to stay in Joensuu for a day or two longer were

welcomed by the friendly people of the Joensuu Science Park (Joensuun Tiedepuisto).

ICALT 2004's Business Day gave us the chance not only to taste the local wines and specialties of the typical Finnish kitchen, but to learn more about new possibilities to work in an inspirational environment. Contacts and discussions with local officials, the opening ceremony of the new library, and the awarding of the international Intelligent Ergonomics Prize were all a part of a most interesting event.

Visiting the city of Joensuu (with a population of some 50,000) was an exciting experience for all the conference participants. A dinner was held on the lake coast. Surrounded by several camp fires (as a defence against mosquitoes), we had an opportunity not only to see but also to get involved in woodcutters' competitions. Local members of the conference organizing committee were also very informative on the subject of the old national handicrafts, which form an important part of the history of the North Karelia province in which Joensuu is situated.

*Miroslav Skoric
Novi Sad IEEE SB*



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University of Pretoria IEEE SB, South Africa

IEEE WIE Affinity Group
University of Pretoria's Women in Engineering (WIE) had its first meeting on Wednesday 27 October 2004. The meeting was



Women in Engineering held its first meeting at the University of Pretoria

attended by both male and female students who all showed much interest in

Student Design Winners Travel to California

Jannes Venter, a member of University of Pretoria IEEE Student Branch, was recently awarded first prize for his paper submission to the DAC/ISSCC Student Design Contest (SDC) paper, 'Design and Implementation of a Fractional-N Frequency Synthesizer for Cellular Systems.'

The authors have been invited to receive the prize (US\$4000) – to be awarded at a special ceremony in the

promoting the engineering field of study for women.

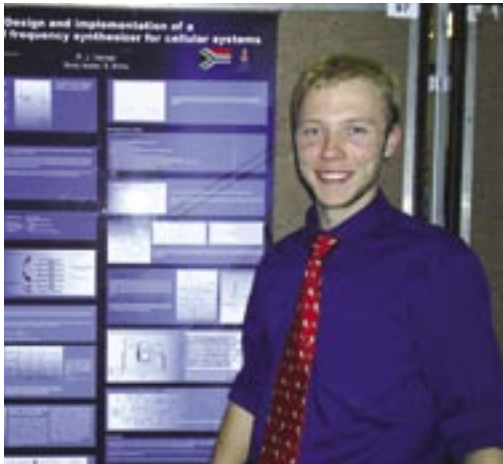
Discussions centered on the promotion of careers in engineering for girls at school level through school visits and how students can become involved in this.

Also discussed was the role WIE Affinity Group can play in the community, amongst others, a science club at schools in the vicinity of the university is to be considered. Engineering students who want to become involved with WIE can do something by joining IEEE. The next meeting of the University of Pretoria WIE affinity group will take place in the first quarter of 2005.

*Regards,
Rina Mostert
Chair, IEEE WIE
Affinity Group*

DAC (Design and Automation Conference) Pavilion on the DAC exhibit floor on Wednesday, June 15, 2005, Anaheim, California. A special invitation to present the paper as a poster at the International Solid State Circuits Conference (ISSCC), San Francisco, California, February 6-10, 2005 has also been received. Both conferences are partially co-sponsored by the IEEE.

Jannes Venter



Jannes Venter presents his winning paper

Implanted semiconductors will allow people who cannot record new memories to remember again

ISEP IEEE Student Branch, Paris, France

Have you ever met someone who can remember all that happened to him until the day he had a very bad car accident, but who cannot record any new memories? Most victims of anterograde amnesia suffer from a serious neurological disorder: part of their brain called the hippocampus was damaged during a crash or some other accident.

The IEEE Student Branch of Institut Supérieur d'Electronique de Paris (ISEP), the graduate school of electrical and computer engineering in Paris, was glad to welcome two well-known scientists for a conference held on November 15, 2004. The conference addressed the interdisciplinary efforts, made by Mr. Ted Berger and his team from the Biomedical Engineering Department and Director of the Center for Neural Engineering at the University of Southern California, Los Angeles, that will enable the functions of specific brain-damaged regions to be replaced by "neuro-computational" microchips that incorporate experimentally-based mathematical models of the non-linear dynamic properties of biological neurons.



To allow the 'neuro-computational' microchips to communicate with existing brain tissues, micro-circuitry elements have been developed – silicon-based multi-electrode arrays that are "neuromorphic"; ie, designed to conform to the region-specific cytoarchitecture of the brain. When the "neuro-computational" and "neuromorphic" components are fully integrated, and the envisioned prosthetic will receive electrical impulses from targeted sub-regions of the brain, process the information using the hardware model of that brain region, and communicate back to the functioning brain. To make those discoveries workable, circuits, batteries, and processors must get even more efficient and miniaturized than they already are.

Mr Mohaman Sawan (Professor in the Electrical

Engineering Department of the Ecole Polytechnique de Montreal, Canada) followed up with a presentation of his work on the advanced techniques he worked out to build ultra low-power, low-voltage high reliability building blocks dedicated to the implementation of advanced implantable and wirelessly controlled micro-systems. He demonstrated typical micro-devices and focused on their principal building blocks such as power links, bidirectional data links, different types of modulators and demodulators, voltage regulators, integrators and filters, multi-voltage supplies, building blocks for measurement of several *in vivo* parameters, DACs, ADCs, and case studies of cortical implantable micro devices.

*Youssef Essaegh,
Active Member
youssef.essaegh@isep.fr*

Seville Hosts 5th Spanish SB Congress

The Spanish Section is proud to have the second largest number of Student Branches in Region 8. In the first week of November 2004, the fifth National Student Branch Congress took place, this year hosted by Universidad de Sevilla. This was an opportunity for representatives from most of the Spanish Section's 16 branches to work together.

The main purpose of the congress was to spend three

days together exposing the projects of our branches, and trying to get new ideas about new activities that we could organize. We also shared our experiences of problems faced by different student branches.

Every year, we try to collaborate together on projects that involve as many student members and branches as possible. Last year's project was about building a Web Ring that

could link all our web pages. This year, apart from reviewing results, we proposed a more ambitious project involving the sharing of electronic communications among branches.

But not everything was about work. We also visited the high tech microelectronics laboratories of the Universidad de Sevilla and we made a city tour, including a fancy dinner all together.

Pablo Herrero Tomas

Photo Quiz

September 2004 Photo Quiz Winner

We did not have space in the December issue to cover the Photo Quiz. So to remind our readers, we published a photo of Michael Schumacher's Ferrari Formula 1 car last September asking you to describe its electronic and electrical systems; also the function of the three antennae.

There are two prizes. The Student Prize – a one-year subscription to "IEEE Potentials" magazine – goes to Ahassan Mughal, who writes "Hi! I am a final year student in Bachelor of Engineering degree program at Enugu State University of Science & Technology, Nigeria.... The antennae are basically needed for monitoring the car's speed, movement and aerodynamic balance plus general movement efficiency and general stability. Alternatively, they can help the driver align his sitting position by viewing all three antennae in a straight line. Again, while driving at high speeds, viewing the antennae, the driver can know whether he is aligned well or not and whether his car is moving



in a straight track/line or not."

The Member Prize – a new book by our own cartoonist Tayfun Akgül, professor of Electrical Engineering in the Department of Communicatrions and Electrical Engineering at Istanbul Technical University – goes to Hamdi Torun, a research assistant at the Optical Microsystems Laboratory of Koc University, Istanbul.

Hamdi's answer is very informative:

"The antennae seen in the photograph are for bi-directional telemetry system that is used in today's F1 racing cars. Three sets of data are monitored by the technical crew during a Grand Prix. One of those sets is the velocity trace. The acceleration and speed parameters on the track are predefined by the team and the performance of the car and the driver is monitored through this telemetry system by comparing the

gathered data with the predefined ones. One of the antenna is reserved for the transmission of that signal.

"One of the other telemetry data (and antenna) is reserved for engine and gearbox information. Through this set of data the RPM of the engine and gearbox settings can be monitored. Since these settings are modified for every different track, this information gathered through the second antenna is crucial for the team.

"Finally, the other antenna is needed to gather the driver inputs. The braking and throttling as well as other important driver responses are monitored by the technical crew of the team.

"For the telemetry system there is one other set of data gathered. It is the monitoring of the weather. Since it is not required to collect this set of data from the car, another antenna is not required."

Editor's note: I was privately informed by Michael (Schumacher) that there are many secrets in Formula 1, and he wouldn't tell me the actual answer.



March Photo Quiz

Questions: Who was Nikola Tesla? Where is Nikola Tesla Corner? Please email your answers to R8News@ieee.org with the subject line "March PhotoQuiz" before April 1, 2005. Don't forget to state your name and IEEE membership number!

Companies Play New Role in Standards Development

New corporate program gives companies a more direct role in the IEEE standards-writing process

The IEEE-Standards Association (IEEE-SA) Corporate Program supplements the IEEE's traditional approach where individuals draft and vote on standards independently of the companies they work for.

By contrast, the Corporate Program uses new procedural rules allowing companies to participate directly in the development of standards and giving each company a vote during balloting – the stage when a proposed standard is either approved or rejected.

The new corporate standards development program grew out of discussions with industry leaders about the value of IEEE standards, especially their importance as the cornerstone of innovation. The companies we spoke with wanted a more direct role in the IEEE standards-writing



Ingo Ruesch

process. They wanted an alternative to the input of individuals in the IEEE.

The Standards Association began admitting

corporate members in 1998. Benefits included complimentary membership in the Standards Association for any of their employees, and discounts on IEEE Standards Online subscriptions. Corporate membership dues are based on a company's annual revenues.

Currently the IEEE Standards Association has 40 corporate members including large companies like Intel, Lucent, Motorola, Panasonic, and Siemens, as well as smaller companies like WildPackets, Inc. Corporate members, like any other interested company or individual, can choose to work on any standard and have their engineers attend working group meetings in person or via conference calls.

*Ingo Ruesch
R8 Standards Coordinator*

Hans Schmitt receives “Larry K. Wilson Transnational Award 2004”

Some IEEE members may not be familiar with the Larry K. Wilson Transnational Award. The award is intended to show recognition for the accomplishment judged to be the most significant and effective in fulfilling one or more of the transnational goals and objectives of the RAB (Regional Activities Board) and/or personal goals of the Vice President of Regional Activities as related to Transnational activities. The award is made in memory of Dr. Larry K. Wilson.

The Larry K. Wilson Transnational Award is made to just one deserving recipient each year. It consists of a plaque and a cash prize.

The latest winner, announced at the November 2004 IEEE board meeting, is Professor Hans Schmitt of Aachen, Germany, who has served as our regional treasurer.

On his receipt of the award, Professor Schmitt writes:

“Dear Colleagues, I feel deeply honored receiving the ‘2004 Larry K. Wilson

Transnational Award’ for ‘providing fiscal and financial leadership’ and wish to thank all colleagues in Region 8 for their continuous responsiveness and helpful collaboration over the past years.

“My particular thanks go to the nominators and supporters of the nomination. I hope and trust that the financial stability of Region 8 will continue to support the wide ranging activities in our geographic area and the whole of IEEE.

“Thanks, Hans.”



2004 Larry K. Wilson Transnational Award winner, Professor Hans Schmitt

REMINDER CALENDAR Workshops, Conferences & Symposia in R8

SETIT 2005

3rd International Conference on Sciences of Electronic, Technologies of Information & Telecommunication

Susa, Tunisia
March 27-31, 2005
www.universites.tn/setit

International Conference on Biological and Medical Physics

Rotana Hotel, Al-AIN, UAE
March 27-30, 2005
<http://icbmp.uaeu.ac.ae/>

DUE 2005

Domestic Use of Energy Conference
Cape Peninsula University of Technology
Cape Town, South Africa
March 29-31, 2005
<http://www.ctech.ac.za/conf>

IEEE ICT 2005

12th International Conference on Telecommunications
Capetown, South Africa
May 3-6, 2005
<http://www.ict2005.co.za>

ICUE 2005

The International Conference “110th Anniversary of Radio Invention”
St. Petersburg, Russia
May 18-21, 2005
<http://www.eltech.ru>

9th International Conference on Computer Supported Cooperative Work in Design

Coventry, UK
May 24-26, 2005
<http://2005.cscwid.org/>

Industrial and Commercial Use of Energy Conference

Waterfront, Cape Town, South Africa
May 25-27, 2005
<http://www.ctech.ac.za/conf>

ICTIS 2005

Information & Communication Technologies International Symposium
Tetuan, Morocco
June 3-6, 2005

ISIE 2005

IEEE International Symposium on Industrial Electronics
Dubrovnik, Croatia
June 20-23, 2005
<http://www.isie2005.org>

IEEE CBMS 2005

18th IEEE Symposium on Computer-Based Medical Systems
Trinity College Dublin, Ireland
June 23-24, 2005
http://www.cs.tcd.ie/research_groups/mlg/CBMS2005
cbms2005@cs.tcd.ie

St. Petersburg PowerTech 2005

IEEE Power Engineering Society
St. Petersburg, Russia
June 27-30, 2005
<http://www.sei.irk.ru/>

6th NNESMED/ 2nd CIMED

Costa da Caparica, Lisbon, Portugal
June 29-July 1 2005
<http://www.uninova.pt/cimed2005>

REV2005

2nd International Symposium Remote Engineering and Virtual Instrumentation
Brasov, Romania
June 30-July 2, 2005
<http://www.online-lab.net/rev>

IPCC 2005

IEEE Professional Communication Society Making Connections
Limerick, Ireland
July 10-13, 2005
<http://ieeepcs.org/limerick>

UPEC 2005

40th International Univ Power Engineering Conference
University College Cork, Cork, Ireland
September 7-9, 2005
<http://www.upec2005.org>

ISPA 2005

IEEE 4th International Symposium on Image and Signal Processing and Analysis
Zagreb, Croatia
September 15-17, 2005
www.isispa.org

ICL2005

8th International Conference on Interactive Computer aided Learning
Villach, Austria
September 28-30, 2005
<http://www.icl-conference.org>