

IEEE region8news

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

<http://www.ewh.ieee.org/reg/8/><http://www.ieee.org/regional/r8/>

Region 8 Students Sweep Top Prizes Int'l Design Competition

Computer Soc. International Design Competition

An international panel of experts has selected the winners of CSIDC 2002, the IEEE Computer Society 3rd Annual International Design Competition.

For this project, students had to use the Bluetooth radio-based, short-range, wireless-connectivity technology to design a special-purpose, potentially marketable system with social benefits.

Romania's Politehnica University of Bucharest beat out a field of undergraduates from 10 schools throughout the world in the CSIDC World Finals. The contest began in October 2001 with entrants from about 75 universities.

Region eight teams swept the field, winning four out of five top prizes and the top twenty-five projects were selected based on their reports by fifteen Submission Evaluation Teams. The

Judging Panel met 25-27 May 2002 and selected the top ten projects from this list of twenty-five.

The top ten teams were invited to present their projects in Washington, DC 21-23 June 2002. Copies of each team's PowerPoint presentation and Project report can be found at <http://www.computer.org/csdc/2002PowerPoint>

Substantial prizes were awarded, including **US\$ 15,000 first prize** plus the team's university will receive a \$3,000 grant it can use for such purposes as scholarships, reimbursements to students who attend conferences, or laboratory equipment.

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Farewell From Regional Director "Enjoy your IEEE"

Dear IEEE Member,

My two-year term will be over at the end of December; so it is time to say goodbye...

The responsibility for overseeing the smooth continuation of IEEE services to all our members in our region has been a real challenge. If every one of you enjoy your IEEE membership, then I would feel happy and comfortable. With about 50,000 members in our region IEEE related interests of our members is very impressive. So, it is quite likely that in addition to basics like the Spectrum, you have received many Transactions, participated in Conferences and got other IEEE benefits.

My responsibility, as the regional director, is not restricted to our region only: being a member of the Board of Directors of IEEE I had my share in overseeing the direction of all IEEE, in all aspects. This is quite a challenge and requires a lot of

care; by the way IEEE as a whole is a 240 million USDollar operation per year, and 30 Directors on the IEEE board have the ultimate responsibility for providing the oversight.

I began my term in January 2001 and there is no doubt I enjoyed every minute of it. But believe me, there were difficult times and decisions, but this was expected as well. I do not intend to share the problems with you; rather, I will take this

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Onural with Support Team
September 2002

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Editor's Ramblings...

Region 8 News is intended for every member in our vast region which extends from-Iceland in the NorthEast,all Europe, Former Soviet Republics to the NorthWest, Middle East, and all Africa. Some fifty thousand members receive this newsletter, free as a member benefit in February, May, August, November.

Every member you read about in these pages is a volunteer (including me). We do it for fun and professional benefit, and our departing Region8 Director, Levent Onural invites you to become a volunteer and to participate and enjoy your IEEE. Read how you can do this in his article starting on page one.

The number of Student Conferences, Competitions, and Workshops in Region8 is increasing - read about them in Chapter and Student activities reports. Students in Region 8 won seven out of eleven prizes in the worldwide Computer Society International Design Competition. Why not enter CSID-2003?

Thank you to everyone who wrote something for this issue, and to the photographers for keeping us "in the picture". Welcome to our new cartoon artist and fellow engineer, Tayfun Akgul, author of "et cetera".

Our August Photo Contest had a good response with a First Prize winner and five Honourable Mentions. The November Photo Contest shows an important measurement device, which was suggested by the Director of Test Engineering from Ford Motor Company R&D in Europe. Why not enter the contest?

I also need to hear from you, our readers - so please write and tell me what you liked or did not like in R8News.

Roland Saam

Editor

r8news@ieee.org

REGION 8 CONTACTS

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Members, students, applicants may have all their questions answered by contacting the Help Desk volunteers/staff. Please use this service freely. Information on what, where, when, how regarding membership, payments, procedures.

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R8 DEADLINES (NEWSLETTER SCHEDULE 2002)

Region 8 News is printed four times a year and distributed with IEEE Spectrum.

Please submit articles by e-mail to r8news@ieee.org in a file attachment in Text Format, Generic WordProcessor, Word, or Wordperfect, AND include with your submission a short description of what, where, when together with the name of the text file and any photo files.

The deadlines for the Region8 News for 2002 are as follows:

February 2003 Issue: 6 December 2002
May 2003 Issue: 6 March 2003
August 2003 Issue: 6 June 2003
November 2003 Issue: 6 September 2003

Acknowledgements

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Gerald Anleitner; EED-2002 Nahel Amirah; Onural
Support team: Kayacan.

Jan Hlavička 1942 – 2002

Professor Jan Hlavička, aged 60, died on 6th of September 2002 after a serious illness.

Jan Hlavička was one of the most distinguished experts in the computer hardware in the Czech Republic. For a long time, he has been active in the field of reliability and testing of the digital circuits, where he received a world-wide reputation.

His professional life began at the Research Institute of Mathematical Machines in Prague, where he participated in the design of computers. Thanks to his professional qualities, personal charisma, open mind and pedagogical talent, he attracted many colleagues and students, when he joined the Faculty of Electrical Engineering (FEE), Czech Technical



Jan Hlavička

University in Prague (CTU) in 1984. As the first Dean of the Faculty after the year 1989 (1990 – 1994), he supported great changes in the structure and principles of education and research towards a higher openness, self responsibility, and wide co-operation at the international level.

As the Vice Rector of the CTU for International Relations in 1994 – 1997 he supported the origin of curricula for foreign students and further broadening of international co-operation. He also founded the alumni association of the FEE-CTU in Prague called ELEKTRA.

Jan Hlavička was an IEEE member since 1990. In 1998 – 2001 he became the Chairman of the Czechoslovakia Section IEEE and from 2002 till his

death the Vice Chairman. He was the member of the Region 8 Membership Activities Committee with responsibility for the membership development.

He was also a member of the IEE, New York Academy of Sciences, Chairman and member of IMEKO, chairman and member of many program committees of international conferences, etc. He was awarded by Silver Felber medal from the CTU in 1996, IEEE Millenium medal from the IEEE in 2000, etc.

He leaves wife Vlasta, daughter Zuzana with husband Terje and grandchildren Adam and Jakob. In the minds of all us who knew him, his name will ever hold a honourable place.

*Contributed by Jan Vobecký
Chairman, Czechoslovakia Section*

Letter from Regional Director *cont'd. from page 1*

last opportunity to stress the importance of volunteer activities and your direct participation in various IEEE organizations.

As many of you know, IEEE is a volunteer driven technical organization. It is a not-for-profit legal entity which operates for the benefit of the public with all the associated privileges as granted by the law. Since it is incorporated in New York State, its governance and operations are regulated by US and New York State laws. Because it is a transnational organization with members and sections in almost every country in the world, its operations are naturally also subject to the laws of those countries where IEEE operates.

The overall structure and operation modes are pretty complex. IEEE has been very successful in maintaining and expanding its worldwide operations so far, and I am sure it will continue to do so. The key element in this success is the **volunteerism** which essentially characterizes IEEE.

The benefits that IEEE gives to its members are pretty diverse, and the cost of providing such services has been kept at very reasonable levels; again the key contributor to this success is the volunteerism.

We can look at the most precious service (especially in Region 8) that IEEE provides: the **technical publications and**

technical conferences. Content providers (authors of the articles), editors, reviewers and conference organizers willingly volunteer their time and services to achieve high quality products we are familiar with; and since these people are highly qualified, the market value of their services are also very high. And, as IEEE members we get that service essentially for free.

Considering the overall extent of services, we are talking about tens of thousands of volunteers behind our quality products. Essentially, what we are experiencing is the synergy of a huge network of technical people focused by the scope of interests of IEEE. The expected true benefit of getting associated is visibly there.

But still, maybe only five percent of the 370.000 members actively **volunteer** their efforts. Considering the outlined success, this might be seen adequate.

However, my strong personal belief is just the opposite: dreaming what it would be like when the other 95 percent also starts contributing, I always feel that we are not achieving to the full potential.

Therefore, I would like to make a personal call to all our members to get involved: think about organizing a local conference or a seminar by inviting a speaker on a technical topic of interest.

There is nothing wrong with local **social** events. **Technical visits** are also of interest.

The **best starting point** is to learn who are the key volunteers who manage the Societies and your local Technical Chapters. Learn the name and contact info of your local Section chair today.

The Presence of IEEE at a location nearby to you is essential to make those initial contacts. And that local contact is there because some IEEE volunteers have already taken the initiative and formed those local Sections, Chapters and Student Branches. When planning local events you need to meet and know members who are close to you. You will be surprised with the help you will get once you start. And then, how about running for election to be the next Chapter or Section Chair.

So, just start making those initial contacts and start contributing your share to this excellent organization and its members. I assure you that you will find it also very rewarding to yourselves. Just send me an e-mail, and I will put you in touch with your local section chair.

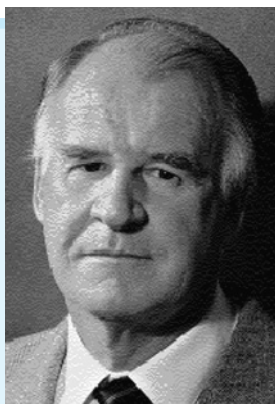
Enjoy your IEEE. ...

*Levent Onural
l.onural@ieee.org*

IEEE Fellows Program

An Introduction by Duncan Baker

There are many colleagues in Region 8 who are worthy of nomination as Fellows of the IEEE. The nomination process is time consuming, and may take several months to complete. The deadline of 15 March each year is quite strict. You must ensure that original documentation with signatures reaches the IEEE Fellow Committee on or before this date. If you need guidance, or have any queries, please contact me. I may be reached by e-mail at duncan.baker@ieee.org, or by mail at Duncan Baker, PO Box 33406, Glenstantia, 0010, South Africa. Fax: +27 12 348 5314.



Any Senior Member, who has been a member of IEEE for at least 5 years in any membership grade, and whose membership fees are fully paid up, is eligible for nomination.

It is recommended that the process of electing a colleague as an IEEE Fellow should start before the end of each year. Results only become generally known at the beginning of the year, one year later, about 9-10 months after the closing date for nominations. The nomination process is begun by the nominator, who fills out the nomination form with details of the candidate's qualifications and achievements. The nominator is also responsible for identifying the candidate's outstanding achievements, the IEEE Fellows best qualified to judge the candidate's work, and the Society best able to support the nomination. Any member, either alone or assisted by others, may nominate a candidate. All exceptions are noted on the website, which may be accessed by "drilling down" at <http://www.ieee.org/about/awards/>. This site also allows access to information on a range of Awards for which members may qualify.

Candidates may come from any field, including academia, government, and industry. Whatever their careers, candidates must have made an outstanding contribution to the electrical and electronics engineering profession. The IEEE Fellow Committee and the IEEE Board of Directors also seek to recognize practitioners whose work cannot be published

because of its proprietary nature, but has tangible results in the form of products, systems, and their applications, facilities, or services created.

Upon completing the nomination form, the nominator must contact of least five references capable of assessing the candidate's contributions. The references **MUST** be IEEE Fellows, except in Regions 8,9 and 10, where they may be Senior Members if there are not enough Fellows in the area familiar with the candidate's contribution. The references cannot be members of the IEEE's Board of Directors, the Fellow Committee, the Society evaluating committee, or the headquarters staff.

The nominator's final task is to choose one Society in the IEEE whose evaluating committee will assess the candidate's technical qualifications and contributions. This choice should closely reflect the expertise of the candidate, who, however, need not be a member of the evaluating Society. The Society evaluating committee ranks each candidate as: Extraordinarily Qualified, Highly Qualified, Qualified, Marginally qualified, or Not Yet Qualified.

All material is then forwarded in confidence to the **IEEE Fellow Committee**. All members of the Fellow Committee are IEEE Fellows and selected so as to represent each of the 10 IEEE Regions and to have expertise in the technical areas represented by the IEEE Societies. The IEEE Board of Directors appoints the members of the Fellow Committee. Provision is

made in this process for continuity, and appointment of new members to replace those whose terms of office have expired.

The main task the Fellow Committee is to recommend candidates to the Board of Directors, in accordance with the following criteria:

- Individual contributions as engineer, scientist, originator, technical leader, or educator.
- Evaluation by the Society selected by the nominator.
- Evidence of technical accomplishment, such as publications (including internal company reports), patents, and peer recognition.
- Confidential opinions of references.
- Service to other professional engineering societies.
- Total years in the profession.

Each candidate is rated numerically on the basis of these criteria. The numerical scores are computationally normalized, and candidates are then ranked. Using these rankings, and subject to Bylaws limitations on the number of members that may be elected Fellows in any one year, the Committee prepares its final list of candidates for submission to the Board of Directors towards the end of each year. The Board acts upon those recommendations at its year-end meeting.

If you wish to obtain a Fellow nomination kit, send an e-mail to fellow-kit@ieee.org. Include your name, street address, City, State, Zip/Postal Code, Country, Telephone Number, and how many kits you would like to receive. Follow the instructions in the kit carefully. Every step **MUST** be complied with. All completed materials must be returned to the Fellow Committee IEEE, 445 Hoes Lane, PO Box 1331, Piscataway, New Jersey 08855-1331, USA.

Strict adherence to procedures is essential, otherwise, a candidate may be placed at a serious disadvantage and possibly even precluded from consideration. Please note that only hard copy versions of all material, with original signatures, will be accepted.

Duncan Baker
R8 Awards and Recognition Coordinator

News

FACTS in Power Engineering

Power Engineering Society's FACTS award for 2002 was presented to Dr Arslan Erinmez, recently of the National Grid Company, UK.

The FACTS award is given to those who have made an outstanding contribution to the development of Flexible AC Transmission Systems. Dr. Erinmez was instrumental in the use of static var compensators and in other methods of maintaining a flexible power transmission system in England and Wales after privatisation under any conditions of power flow.

The award was presented by Dr John Estey, President of the Power Engineering Society, at the Summer Power Meeting in Chicago on July 23rd.

Contributed by: Michael Baker

Fay honored at exclusive event where international leaders connect with 100 top innovators under age 35

Alexander Fay, Leader of the Industrial IT Engineering Group at the ABB Corporate Research Center Germany, was chosen as one of the world's 100 Top Young Innovators by *Technology Review*, MIT's Magazine of Innovation. The TR100, consists of 100 young individuals whose innovative work in business and technology has a profound impact on today's world. Nominees are recognized for their contribution in transforming the nature of technology in industries such as biotechnology, computing, energy, medicine, manufacturing, nanotechnology, telecommunications and transportation.

Alexander Fay applied knowledge-based systems, a branch of Artificial Intelligence, for capturing the know-how of industry experts for the engineering of automation systems for power generation and the chemical industry. This can significantly reduce plant engineering periods and downtime and improve the quality and safety of the automation solutions. Beyond these immediate benefits for the involved companies, Fay's innovation increases production quality, process and environment safety, and protects human knowledge, the most important asset in a knowledge-oriented society.

Region 8 Students Sweep Top Prizes *cont'd. from page 1*

The winners of CSIDC 2002 are:

First Place "Politehnica" University of Bucharest (Romania)

BE Secure: Building Surveillance Equipment

Team members: Vlad Panait, Mihai Mircea, Tiberius Parcalabu

Project mentor

Head of Computer Science and Engineering Dept: Nicolae Tapus
ntapus@cs.pub.ro

After the September 11th attack in New York City, people started considering whether there are ways to help and inform people in case of disasters, such that quick intervention at the affected area is possible with maximum effect. The proposed system is intended to operate for structures visited by a large number of people.

We developed a low-priced wireless distributed system that collects data from different sensors and informs both the people inside (they are directed on the shortest



Romania team wins CSIDC first Place (safest exit paths) and the outside parties (police or firemen service that can use the information for better rescue operations). In case of a catastrophe even if a part of the system is destroyed, the rest uses existing information to guide rescue operations.

The intervention teams can create good and realistic emergency plans based on the information collected by the system. They can also direct people to a new evacuation mean available

Second Place Poznan University of Technology (Poland)

CarTooth Project - Car Payment Systems Poznan University of

Technology in Poland.

Team members: Michan Kowalski, Michan Rein, Nukasz Szajkowski, Bartosz Nowierski
Mentor: Jan Kniat.

<http://www.cs.put.poznan.pl/csfdc/2002/>

A fascinating Bluetooth wireless system for comprehensive communication and accounting for vehicle related transactions

Third Place Slovak University of Technology in Bratislava

Mobile Sleep Laboratory: Body Monitoring System with EEG Sensors

Slovakia Team members: Peter Blšták, Matúš Horváth, Peter Lacko, Marián Lekavý
Faculty mentors: Mária Bieliková, PhD., Tibor Krajčovič, PhD.

Sometimes, the reason for a patient staying in a hospital is to discover problems and therefore the patient just has to be observed continually.

The goal of our work is to support treating patients in their natural environment. Body Monitoring System (BMS) controls various sensors according to rules defined

by a doctor and therefore allows remote patient supervision.

Fourth Place University of Virginia, USA

Lifeline: Improved Communication and Informatics for Fire and Rescue Workers

Fifth Place University of Siena (Italy)

Blue Sign Translator: A Breakthrough in Personal Communication: University of Siena – Faculty of Engineering

Team members:

Bennati Paolo Capasso Tommaso

Giallombardo Francesco Maggio Emilio

Project mentor: Giorgi Roberto

Blue Sign Translator is an aid instrument

for the deaf. It uses the Bluetooth technology to 1) transmit standard messages or messages resulting from human voice and 2) to receive messages and play them back in Sign Language (as a movie) or in another preferred language.

Honorable Mention: Aristotle University of Thessaloniki (Greece)

BlueSteth: A Bluetooth-based Stethoscope for Healthcare and Educational Applications

Team members: Theodoros Zoumpoulidis, Konstantinos Panoulas, Ioannis Fotiou, Leontios Hadjileontiadis, Lecturer

Project Mentor Panagiotis Georgiadis (Head of department Petros Dokopoulos, Professor)

The system developed by our team, namely the BLUESTETH, is intended to be a solution for recording and transmitting bio-

acoustic signals without the need of carrying along different devices.

University of Karlsruhe (Germany)

BLUEWAND A Versatile Remote Control and Pointing Device

A Bluewand is a specialized control device that acts as human computer interface (HCI) to, e.g., earphone, mobile phone, and PDA.

Yildiz Technical University (Turkey)

BlueSIGN

BlueSign enhances conventional road signs, billboards, and the like in a way that enables people to get detailed and personalized information "on-the-fly".

CHAPTER COORDINATION

From the Chapter Coordination Subcommittee Chair Jozef Modelski

Motto: The local chapter activities are the most important key to membership growth, improvement of society image and realisation of globalisation process.

It is my pleasure to inform you that during last few months three new Chapters were formed.

- Magnetics Society Chapter: Romania Section — 6 May, 2002
- Power Engineering Society Chapter: Switzerland Section — 6 June, 2002
- Computer Society Chapter: Greece Section — 11 June, 2002.

We extend our best wishes for the successful operation of these Chapters.

Almost all Region 8 Chapters have their Chapter Coordinators. The activities of the Chapter Coordinator include, among other things, organising meetings of his Chapters Chairs at least once in 2÷3 years. This year we had three such events:

- EMS R8 Chapter Chairs Workshop in Oxford, August 18, 2002, in conjunction with Annual International Engineering Management Conference IEMC 2002
- MTT R8 Chapter Chairs Meeting in

Milan, September 22, 2002, in conjunction with European Microwave Week

- IE R8 Chapter Chairs Meeting in Seville, November 6-7, 2002, in conjunction with the 28th Annual Conference of the IEEE Industrial Electronics Society IECON'02

Reports of September and November meetings will be presented in the next issue.

Last year R8 Committee had established in Region 8 the Chapter of the Year Contest. I kindly remind you that the second edition of the Contest (for year 2002) is announced in November 2002.

The chapters would be nominated in two categories: Small and Middle Size Chapters and Big Size Chapters (>100 members). The Nomination Forms are distributed among the Section Chairs and Chapter Coordinators.

The Nomination Form must be filled in and submitted to the Chair of the R8 Chapter Coordination Subcommittee. It should review the Chapter's performance in each area listed in the selection criteria below for the year covered by the award. The Forms

must be submitted no later than 15 February.

I encourage all Section Chairs and the other officers to make their nominations as early as possible to give nominated Chapters time for careful preparation of submissions.

The Contest Jury consists of CCS members will judge on chapters on the basis of:

- Technical Activities: 30 points max
- Educational Activities: 30 points max
- Membership Communication and Advancement: 20 points max
- Public Relation Activities: 10 points max
- Additional: 10 points max

Final results will be known in March 2003. The two winners (Chapter Chairs) will be invited for the official award ceremony, which will be held during the IEEE R8 Committee Meeting, Spring 2003. Each Chapter will receive the plaque and financial prize of 1000 Euro as a support for Chapter activities.

I want to present Coordinators reports: IEEE Region 8 LEOS Chapters News prepared by Sergei Malyshev and EMS Chapter Chairs Workshop in Cambridge prepared by Margaretha Eriksson.

EMS Chapter Chairs at Workshop in Cambridge, UK

By Margaretha Eriksson, R8 EMS Co-ordinator

The IEEE Engineering Management Society (EMS) directs its efforts toward advancing the practice of engineering and technology management as a professional discipline, encouraging theory development for managing organizations with a high engineering or technical content, and promoting high professional standards among its members

The Region8 Engineering Management Chapter Chairs Workshop was held at St Johns College Sunday August 18, 2002, in Cambridge, UK, in conjunction with the International Engineering Management Conference, IEMC-2002.

There were twelve Region 8 EMS Chapter Chairs, and visiting from R10 Akio Kameoka, EMS Japan Council, and Sam Ghosh, USA.

The workshop was led by Charles Rubenstein, EMS Vice-President Membership and Margaretha Eriksson, R8 EMS Chapter Co-ordinator.

As a bonus and a token of appreciation the R8 Chapter Chairs were all invited to attend the IEMC-2002, which started directly after the workshop.

The event was co-sponsored by IEEE Engineering Management Society, IEEE Foundation, IEEE Region 8 and IEEE Management Professional Network.

Dinner and get together

The EMS Chapter Chairs workshop started with an informal Welcome Dinner Saturday night in a very nice French restaurant in central Cambridge. The Chapter Chairs got to meet with each other, the EMS President 2002 Dennis Bodson, past EMS President Wade Shaw, Region 8 Director Levent Onural and Anthony Davies, Region 8 Director-elect.

A packed program

On Sunday morning the Chapter Chairs workshop started with a great English breakfast in the Buttery of St Johns College. After formal greetings and introduction of attendees, Charles Rubenstein, EMS Vice-president Membership, presented the organisational structure of EMS and IEEE.

The Engineering Management Society's

co-operation with the Institute of Electrical Engineers (IEE) of UK, and its new Management Professional Network was presented by Anthony Bainbridge.

Charles Turner, the EMS chair of UKRI, as well as R8 Secretary, gave a short lecture on IEEE's Engineering Ethics Program. IEEE has an Ethics Committee where engineers can turn in ethical issues to get advice and a second view.

After lunch R8 EMS Co-ordinator Margaretha Eriksson and past R8 Director Kurt Richter presented samples from IEEE's Project Management and Leadership Training Programs. These programs have become an integral part of the workshop program during the R8 Regional conferences - Eurocon 2001, Melecon 2002 and Africon 2002.

Chapter needs, co-operation and support

During the final part of the workshop the Chapter Chairs presented their individual chapter's activities and needs. This turned into a discussing on Chapter Best Practices.

One big family

Charles Rubenstein stated "Every chapter has a Mama — the Engineering Management Society, and a Papa — the Section. There are Grandparents too — Region 8! First you ask your Mama for support, then your Papa, and if it doesn't help, you ask your Grandparents!"

The R8 Director, Levent Onural, confirmed the generous support available to Chapters (but remember, you have to ask for it!) and stressed the need for a dialogue between the



Charles Rubenstein Member Relations VP hosted a meeting of Region 8 EMC Chapter Chairs



Chapter Workshop leader Wade Shaw, EMS Past President Karl Arunski, Roger Manley, Margaretha Eriksson, EMS Chapter Co-ordinator, and Gerhard Seiler

Chapter Chairs and the Section Chairs.

To conclude everybody found the workshop very successful, and wish this kind of Chapter Chair Workshops will become a tradition in Region 8!

R8 Engineering Management Chapters Chairs

- Bernd Kopacek, Austria

(Czechoslovakia, Croatia, Hungary, Slovenia)

- Vladimir Apanasovich, Belarus, Minsk/Poland
- Robert Beirwolf, Benelux
- Gerald Anleitner, Germany
- Israel Herzl, Israel
- Corrado LoStorto, Central and South Italy, and North Italy

- Antonio Fernandes, Portugal
- Antonie de Klerk, South Africa
- Lisbeth Crabo-Ljungman, Sweden
- Ahmet Eryilmaz, Turkey
- Charles Turner, United Kingdom/Republic of Ireland

Good luck to all!

IEEE Region 8 LEOS Chapters News

By Sergei Malyshev, Region 8 LEOS Coordinator

LEOS is the IEEE Laser and Electro-Optics Society. The Field of Interest of the Society is lasers, optical devices, optical fibers, and associated lightwave technology and their applications in systems and sub-systems in which quantum electronic devices are key elements.

Region 8 has 18 LEOS Chapters and has attractive opportunities to form new ones, possibly in Lithuania, Hungary and Czech Republic. The LEOS Chapters are in Belarus, Benelux, France, Germany, Greece/ Bulgaria/ Rumania/ Yugoslavia, Israel, Italian, Moscow (Russia), Novosibirsk (Russia), Poland, Scotland, South Africa (Joint w/ED), Spain, St. Petersburg (Russia), Turkey, Ukraine (Joint w/AP/AES/ED/MTT), UK/Republic of Ireland (Joint w/AP/ED/MTT) and Novosibirsk State University (Russia, Student Chapter).

Most of the Chapters are very active in organising Chapter's meetings, workshops, and conferences. In 2002 many events were held, with more planned for 2003 with the support of the Region 8 LEOS Chapters and more significant of them are presented below:

- All-Russian Student Conference (REEPE-2002), February 27, 2002.
- Joint Symposium on Opto- and Microelectronic devices and circuits, March 10-16, 2002, Stuttgart, Germany.
- 4th International Conference on Transparent Optical Network (ICTON-2002), April 21-25, 2002, Warsaw, Poland.
- 4th Belarus-Russian Workshop on

Semiconductor Laser and Their Application, May 20-22, 2002, Minsk.

- LEOS Benelux Workshop on Photonic Crystals, May 29, 2002, Ghent, Belgium.
- 4th International Workshop on Laser and Fiber-Optic Network Modelling (LFNM'2002), June 3-5, 2002, Kharkov, Ukraine.
- IEEE/LEOS Workshop on Fiber and Optical Passive Components (WFOPC-2002), June 5-6, 2002, Glasgow, Scotland
- 3rd International Conference on "New developments in photodetection", June 17-21, 2002, Beaune, France.
- European Conference on Lasers and Electrooptics (CLEO/Europe 2003), June 23-27, 2003, Munich, Germany.
- European Quantum Electronics Conference (EQEC'2003), June 23-27, 2003, Munich, Germany.
- Global Optical and Wireless Network Conference (GOWN'02), August 25-30, 2002, Miedzyzdroje, Poland.
- European Conference on Optical Communications (ECOC'2002), September 8-12, 2002, Copenhagen, Denmark.
- 12 International Conference on Microwave and Telecommunication Technology" (CriMiCo'2002), September 9-12, 2002, Sevastopol, Ukraine.
- 29th European Conference on Optical Communication (ECOC'2003), September 21-23, 2003, Rimini, Italy.
- 14th International Conference on Integrated Optics and Optical Fibre

Communication (IOOC'2003),

September 21-25, 2003, Rimini, Italy.

- LEOS Annual Meeting, November 10-14, 2002, Glasgow, Scotland.
- 3rd International Conference on Quantum Electronics, November 13-15, 2002, Minsk, Belarus.
- 10th IEEE International Symposium on Electron Devices for Microwave and Optoelectronic Applications (EDMO), 18-19 November 2002, UMIST, Manchester, UK.

More Student Chapters needed

One can see the great activity of the Region 8 LEOS Chapters in organising conferences and workshops. However, it is necessary to note that now only one LEOS Student Chapter has been formed in Novosibirsk State University (Russia). So it may be one of the tasks for future activity of Region 8 LEOS Chapters.

The next R8 LEOS Chapter Chair Meeting will be held in 22 June 2003, Munich, Germany in conjunction with European Conference on Lasers and Electrooptics (CLEO/Europe 2003) and European Quantum Electronics Conference (EQEC'2003). During this meeting chapter chairs or chapter representatives will introduce short reports about previous, current and planned chapter activities. R8 LEOS Chapter Chair Meeting attendees will have possibility to exchange new ideas and information about IEEE LEO Society activity.

*Sergei Malyshev,
Region 8 LEOS Coordinator,
malyshev@inel.bas-net.by*

Reviews of Conferences Held in Region 8

International Engineering Management Conference

St John's College Cambridge, UK

18-20 August 2002

IEMC 2002 was held in the beautiful university city of Cambridge, some 150 km North from London. It is the Annual International Conference of the Engineering Management Society

Supporting organisations included British Telecom Exact Technologies, QSL Industrial & Technology Marketing, University of Strathclyde, with Institution of Electrical Engineers as technical co-sponsor. In fact the IEE launched their Management Professional Network (MPN) initiative at the conference. MPN and EMS will collaborate in exchanging publications, developing new ideas jointly, debating substantive management issues, risk sharing on conferences, etc., to the benefit of members of both institutions worldwide. About three hundred partici-



Keynote Speakers: Dennis Bodson, Pres. IEEE EM Society; Levent Onural, R8 Director; Chris Earnshaw, Chief Tech. Officer British Telecom; Tariq Durrani, IEM Conf. Chair



St. John's College Cambridge

pants attended a full conference program chaired by Tariq S Durrani, of Univ. Strathclyde. Five simultaneous technical Session streams plus two Interactive Poster Session streams continued through the two days. The first day Keynote address was given by Dr Lewis Terman, President of the IBM Academy of Technology, who spoke about innovation as an integral culture at IBM as evidenced by being the world's leader in number of US patents issued.

A Plenary Address by Sir John Chisholm, CEO of QinetiQ Group, characterised scientific innovation as the great driver of economic progress - The New Alchemy, Creating Value for Science - . A splendid evening banquet was hosted in the ancient and elegant dining hall of St John's College. Everyone sat in long communal oak tables in the stone Hall with stained glass windows which was built in the 16th century, enjoying food and drink

and conversation and meeting people.

The Guest of Honour Professor John O'Reilly, CEO of the UK Engineering and Physical Sciences Research Council (similar to the American NSF) and current Deputy President of Institution of Electrical Engineers (GB) spoke on opportunities and challenges facing managers in science and engineering.

Distinguished guests of the Conference included Dr Dennis Bodson, EM Society President; Dr Larry Anderson, EMS Vice President (Conferences); Dr. Lew Terman, IEEE TAB past Chair; Sir Robin Saxby, President & CEO of ARM Holdings plc; and Chris Earnshaw, Chief Technology Officer of British Telecom.

The pleasant weather, beautiful surroundings and substantial technical program gave everyone the chance to walk, talk, and exchange ideas, and build friendships.

Roland Saam

Editor, IEEE Region8 News



et cetera

Region 8 has many potential Historic Milestones. R8News_May 2002 issue page 4 explained the process and how to initiate a Milestone event in your section. Given the innovation in engineering everywhere in Region 8, why not identify a project that will bring publicity and recognition to your area?

What value does this have for the IEEE Organizational Unit?

The most important thing is increasing awareness, both by the organizational unit members and the public at large, of local heritage. Also, the documentation of the achievement helps to separate fact from local myth, and the Milestone process opens up channels of communication between the organizational unit and other civic organizations, typically a local historical society.

Editor

Triple Milestone Dedication-11 July 2002 France, UK, Maine

First TransAtlantic Reception of Television Signal via Satellite

TELSTAR I was launched from Cape Canaveral (now the Kennedy Space Center) on 10 July 1962. TELSTAR I was placed in an elliptical orbit (completed once every 2 hours and 37 minutes), rotating at a 45 degree angle above the Earth's equator. The maximum transmission time between Europe and the United States was 20 minutes per pass. On 11 July 1962 the TELSTAR Satellite transmission was received in Pleumeur-Bodou, enabling the world's first satellite transmission of a short television program from the United States.



Radome in Pleumeur-Bodou

Slovak University of Technology in Bratislava **France**

On 11 July 1962 at the Radome in Pleumeur-Bodou, France received the first transatlantic transmission of a TV signal from a twin station in Andover, Maine, USA via the TELSTAR satellite. The success of TELSTAR and the earth stations, the first built for active satellite communications, illustrated the potential of a future worldwide satellite system to provide communications between continents

Research into ways of improving the quality and quantity of intercontinental telephone lines had been an ongoing focus for a number of years. One of the first underwater telephone cables, laid between France and the United States in 1956, provided an extremely limited capacity of only 36 channels. The transmission of televised programming was non-existent. Programs were recorded manually on a magnetic tape, and then dispatched by airplane courier to its destination studio, where it would be "replayed" in order to disseminate its contents to spectators.

UK

**Goonhilly Downs, Cornwall,
England - July 2002 - IEEE UKRI
Section**

On 11 July 1962 this site transmitted



the first live television signal across the Atlantic from Europe to the USA, via TELSTAR. This Satellite Earth Station was designed and built by the British Post Office Engineering Department. Known as 'Arthur' (of "Knights of the Round Table" fame), its open-dish design became a model for satellite television earth stations throughout the world.

In April 1961 a multi-national agreement was signed for the project development of two active, mobile telecommunications satellites, "TELSTAR" and "Relay."

Goonhilly-Downs is located at the Cornwall coast in England. The first satellite dish to be built on the site, Goonhilly 1, also known as Arthur, was a parabolic design and weighs 1118 tons and was 85 feet in diameter. It set a world standard for the open parabolic design of the dish.

Telstar Facts:

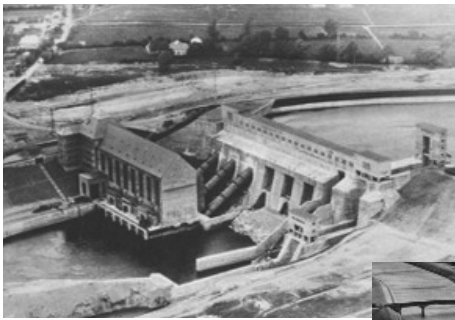
The satellite was 34.5 inches in diameter

It had 72 facets

- It weighed 170 pounds
- The metal framework was made of magnesium, the shell of aluminum, coated with aluminum oxide sprayed on by a plasma jet process.

IEEE/ASCE Milestone 75 Years of Electrification of the Irish Free State

**Ardnacrusha Power Station,
Shannon, Ireland, 29 July 2002**
The Electricity Supply Board of Ireland's



Shannon Scheme for Electrification of Irish Free State in 1929

(ESB's) Shannon Hydro Electric Scheme received the IEEE International Milestone and Landmark Award to mark its 75th Anniversary.

The awards ceremony at the generating station in Ardnacrusha, Co Clare, Ireland, was presented jointly to the ESB and Siemens, (which constructed it in 1927). by the IEEE and the ASCE- American Society of Civil Engineers.

It recognizes the scale of the project and how it became a model for large-scale electrification schemes worldwide. The IEEE presented the Milestone Award; and the American Society of Civil Engineers presented the Landmark Award.

The chief executive of the ESB, Padraig McManus, said: "These awards are very coveted and therefore it is a matter of great pride to the ESB and Siemens that we have been selected for these particular honors. It is a huge tribute to the staff both past and present in our organizations. The Shannon Scheme is much more than a wonderful engineering breakthrough, it is a realization of a dream, the material legacy of a vision and in some ways a monument to the pioneering spirit that built this nation. It incorporates brilliant conceptual design; real professionalism and dedication in terms of the execution of that design, hard and often painstaking work in the severest of conditions. Visions and dreams are realized by extraordinary people who see beyond the usual framework.

He then extended a special

welcome to members of the IEEE and their President Ray Findlay and to Tom Jackson who is becoming President of ASCE who are celebrating their 150th year. The presentation of both the International Milestone Award and the International Landmark Award



Aerial view of Ardnacrusha Power Station (Photo Courtesy ESB Archive).

The President of IEEE, Ray Findlay said that at the time it was built, the Shannon Scheme was one of the world's largest civil and electrical engineering projects. It was a major accomplishment for the Irish Free State and a major landmark in the history of its contractor Siemens A.G.

"Today's celebration is especially significant because it recognizes the importance of the Shannon Scheme in two allied engineering disciplines—electrical and civil engineering."

The Managing Director of Siemens, Richard Crowe said that the Shannon Scheme was for Siemens one major event

that marked their return to the world stage following the painful aftermath of the First World War. "We are at the cusp of a new business age where issues like sustainability, integrity and responsibility cannot be brought down to a pure economic equation.

The IEEE and ASME are complimented for their tremendous foresight with their Heritage Award Schemes to preserve the past for the future and so inspire a new generation of engineers, civil, electrical and electronic to perhaps leave their mark on society. "



Presidential Address : President Raymond Findlay IEEE delivers his address at the Dedication Ceremony in Ardnacrusha.

The Plaque was unveiled. Bob Cullen, Station Manager who read the citation "The Shannon Scheme was officially opened at Parteen Weir on 22 July 1929. One of the largest engineering projects of its day, it was successfully executed by Siemens to harness the Shannon River. It subsequently served as a model for large-scale electrification projects worldwide. Operated by the Electricity Supply Board of Ireland, it had an immediate impact on the social, economic and industrial development of Ireland and continues to supply significant power beyond the end of the 20th century."

*Contributed by Tom Hammons
Chair Power Eng. Chapter,
UKRI*



Unveiling the Plaque: Left to Right ; Tom Jackson Incoming President ASCE, Raymond Findlay President IEEE, Michael Aherne Minister of State at the Department of Enterprise Trade and Employment, Padraig McManus Chief Executive ESB, Richard Crowe MD Siemens Ireland Ltd. & Bob Cullen Station Manager Ardnacrusha & Lee Stations.

Chapter and Section News

10 years of the Czechoslovakia Section IEEE

November 29, 2002 will see the celebration of the 10 years anniversary of the Czechoslovakia Section IEEE. This event will be held at the Czech Technical University in Prague.

The past chairmen of the CZECHOSLOVAKIA SECTION IEEE, MTT/AP/ED, CAS/COM, CS and C chapters will receive the IEEE Wall Plaques and Officer Label pins to recognize their contribution to the activities of the Section. The important role of the IEEE will be promoted during the official program including presentation of activities during the last 10 years. The history of the IEEE and Czechoslovakia Section IEEE will be briefly reminded as well. This event will be an opportunity to thank all local partners who supported the activities of the Section.

*Submitted by: Jan Vobecky
Czechoslovakia Section Chair
vobecky@fel.cvut.cz*

Greece

REGION 8 NEWS

GREECE SECTION REPORT

1. The 4th INFOCOM CONFERENCE organized by SMART PRESS S.A was held on June the 17th. The session entitled "SCIENTIFIC SESSION" was sponsored and organized by the IEEE Greece Section. Fifteen papers of the 4th Generation Mobile Systems, New Technologies on Wireless Networks and Wide Band Networks were presented and more than 300 professionals attended this scientific session.

2. The major activity of the new officers of the Greece Section is to make an effort to strengthen the Student branches in Greece as well as to improve communications with and between the Student branches.

For these reasons three meetings were organized with the following Student branches:

- University of Thessaloniki on 27/05/2002
 - University of Xanthi on 31/05/2002
 - National Technical University of Athens on 04/06/2002
- During these meetings a seminar was

given on the subject "How to make a Technical Presentation". The students expressed the areas of interest where IEEE can and will contribute.

Following these meetings and with the support of every University official, the above student branches have established local IEEE offices for Student meetings.

The new officers of the above IEEE Student Branches are:

Aristotle University of Thessaloniki

Chairman Ilias Kitsas

Vice-Chair Filippos Koravos

Secretary Ioannis Fotiou

Treasurer Konstantinos Panoulas

Web-administrator Panagiotis

Georgiadis

Student Counselor Professor S. Panas
(email: panas@psyche.ee.auth.gr)

University of Xanthi

Chairman Nikolaos Kavakiotis

Vice-Chair Iakovos Kalergis

Secretary Elena Tsioliariidou

Treasurer Ioannis Panapakidis

Student Counselor Professor A.

Safigianni (email: esafig@ee.duth.gr)

National Technical University of Athens

President Kyriaki Levanti

Vice Presidents Alexandra Meliou

Giorgos Perdikomatis

Secretary Katerina Bougioura

Treasurer Apostolos Fertis

Public Relations Eirini Lerikou

Webmasters Efthimios Kallos

Alexandros Dimakis

Stefanos Evagelou

Student counselor Professor P.

Maragos (email: maragos@cs.ntua.gr)

Future meetings are planned to take place with all Universities in Greece.

Philip Constantinou

IEEE CHAIRMAN

GREECE SECTION

Germany Starts NEW Eng. Management Society Chapter Kickstarting Chapter Activities

The newly founded German Chapter of the Engineering Management Society has defined an aggressive plan for forming an active community and starting

chapter activities. Region 8 News is going to regularly follow up on their progress.

Having been formed in Frankfurt (Main) on March 23rd, the German chapter is a late arrival within EMS, but its leadership team wants to make up for this by quickly turning it into an active and exciting professional community. At IEMC 2002 in Cambridge, Region 8 News talked to Gerald Anleitner (Chapter Chair) and Dr. Gerhard Seiler (Chair of Professional Activities) about the Chapter's plans.

Chapter work will initially be focussed on "activating" the existing EMS membership in Germany with two broad initiatives:

- **Getting to know members:** Regular chapter meetings every three months in a different region of Germany (Berlin and Hamburg have been first, Munich and Düsseldorf are planned next) offer a convenient first networking opportunity for the regional members, who will be invited to drop in.
- **Involving members in joint professional work:** As a platform for deep discussion, exchange of experiences and joint work, the chapter will encourage and support the formation of special interest groups. Topics will have to emerge, but according to Seiler "Management of large software and electronics projects" and "Software Patents" already look likely to reach critical mass.

The next meeting will take place in Munich on November 16th. Its professional program on "Automotive embedded systems" directly targets a high interest topic for the region, with four upmarket car OEMs and many important suppliers being at home in southern Germany (Contact: g.seiler@ieee.org).

Anleitner thinks that about a year will be needed to "establish the basics", before further initiatives can be added to reach beyond the IEEE, both in terms of establishing an outside network or in order to attract outside members.

As a real life learning opportunity of starting a chapter, Region 8 News will regularly follow the progress of EMS Germany and keep you informed.

REMINDER CALENDAR

Workshops/ Conferences/ Symposia in Region 8

ITAB 2003

"New Solutions for New Challenges".

4th Annual IEEE EMBS

Special Topic Conference on

**Information Technology Applications
in Biomedicine**

24 - 26th April 2003

ICC, Birmingham (UK).

Technology advances, biomedical and
health care applications

<http://www.mis.coventry.ac.uk/biocore/itab2003/>

The 5th International Conference and Exhibition

DIGITAL SIGNAL PROCESSING

AND ITS APPLICATIONS

March 12-14, 2003,

Moscow, Russia

*Submission deadlines – December 15,
2002 - Abstracts of papers*

Notification on acceptance - January 15, 2003

Abstracts and papers should be sent to the
International Technical Program Committee:
Rogdestvenka st., 6/9/20,

K-31, Moscow, 107031, Russia

Phone: (7-095) 921-7108, Fax: (7-095)

921-1639, E mail: nto.popov@mtu-net.ru

**IEEE and SPIE XIth Symposium on
Photonics and Web Engineering**

22-25 May 2003

Warsaw, Poland

IEEE Symposium for B.Sc., M.Sc., and
Ph.D., students, GOLD members and
young researchers.

The main aim of the Symposium is to
build a nation wide debating forum for
young researchers and Ph.D. students with
strong participation of experts and young
research fellows from abroad. Membership
of young scientists in IEEE (students and
GOLD members) and SPIE will be empha-
sized during a special Society Evening and
IEEE B-B-Q Reception.

Please, consider participation of your
students and young fellows.

photonics@ise.pw.edu.pl;

R.Romaniuk@ieee.org;

**IFAC Conference on Analysis and
Design of Hybrid Systems**

June 16-18, 2003

Saint-Malo, Brittany, France

Further information may be found on The
conference Server: <http://www.upelec-rennes.fr/adhs03/>

**The 4th IFAC Symposium on ROBUST
CONTROL DESIGN**

Milan, Italy

June 25 - 27, 2003.

Contact Patrizio Colaneri at colaneri@elet.polimi.it for further details.

SYSID 2003

**13th IFAC Symposium on System
Identification,**

August 27-29, 2003,

Rotterdam, The Netherlands

**Co-sponsored by IEEE Control
Systems Society**

For more information see the symposium
website: www.sysid2003.nl.

IEEE Egypt Section Organizes

Future City Competition Egypt 2002-2003.

Now entering its eleventh year in USA,
Third Year in Japan and for the first time a
Future City pilot competition in Egypt and
in Region 8. Teams representing schools
will present their vision of a city of the
future and will compete for prizes and
recognition. Students will learn about dif-
ferent engineering fields, concepts and also
learn Personal skills like Teamwork,
Creativity, time management and more.

Many IEEE volunteers in Egypt have
joined the FC pilot program as organizers

or Mentors for the students teams.
Volunteering Judges for the Egyptian FC
final will be Professors from the Egyptian
Engineering faculties. This year competi-
tion will be held locally only. This Pilot
Program will started in 10 Egyptian
schools. We are looking forward to extend
this competition the next year in more
schools in Egypt and also hope to extended
it to all Region 8 countries as well.

We sent a proposal to the National
Engineering Week Committee in USA to
let the winners from each country compete
in an international finals next year. The FC
competition in Egypt will take the follow-
ing track:

Oct.-Sept. 2002: Workshops for schools
and volunteers

Jan. 2003: FC competition started in
schools

Jul. 2003: The Egypt FC finals and awards
ceremony.

IEEE members from Region 8 are
encouraged to join the FC finals in the next
EED 2003, insha'allah.

Yasser Tawfik
Pre-College Programs coordinator
Egypt Sec Student Activities
Committee
yassertawfik@ieee.org
+20 12 444 7767

Visit Our Website
<http://www.ewh.ieee.org/reg/8/>



More than 500 attend the first Egyptian Engineering Day, EED'2002 CONRAD Hotel, Cairo, EGYPT July 27th, 2002

The main goal of EED is to present graduation projects and start a real program toward cooperation between industry and university. On the other hand, EED is a very good way to spread new technologies between students in order to get initiative ideas.

We started at early morning (7 o'clock) with preparation of exhibition hall. The program began with welcoming speech by Prof. Sameer Shaheen, EGYPT Section Vice Chair and Dr. Khaled Elmetwaly, EGYPT GOLD Chair. Then, The Idea and a program overview of EED was presented by Nahel. After that, the exhibition was opened to all visitors and students.

A series of presentations started in parallel with the exhibition as follows:

- Software development presented by IBM and RAYA.
- GIS presented by OPENSOFT and

Quality Standards.

- Data Networks presented by Nortel Networks.

- New techniques in VLSI and FPGA Technology presented by Mentor Graphics.

The exhibition ended at 5:00 pm. Then all participants moved to another hall to attend a workshop to discuss the "Cooperation between industry & university in EGYPT" and "Electronic Industries in Fab-Less world". The discussion was moderated by Hany Elhak one of active IEEE GOLD member in Egypt. Finally, The EED was ended by some notes and comments from



Mohammad Aboud.

The EED organized by a subcommittee of Egyptian Student Branches Committee (ESB) and 545 participants attend the events: 84% EE student, 0.8 % non EE Student, 14.% company representatives, and 0.7 % press and media.

There was a recognized participation from Egyptian women engineers and students. 37% of the total participants was women engineers and students.

This success we met in EED'2002

encourages us to organize more events collecting the academic and the industrial society in Egypt. To get benefits and profit to both sides through directing University research toward solving industry problems, participate in the development process and meet community needs. Hoping all these efforts leads to develop our society.

Thanks and appreciations to everyone who helped make this event happen, particularly: Modern Technology Supply and Engineering Company, Mentor Graphics

EGYPT and IEEE EGYPT Section.

The EED website contain new ideas and proposed solutions for industry, for Community and governments. Projects were demonstrated for education processes, for Medical projects, and more.....

Please visit the website for all projects abstracts and contact information:

www.EED.SBC2002.ORG

Report contributed by

Nahel M. Amirah

nahel@gawab.com

Egyptian Engineering Day



CSIDC 2003

Computer Society Student International Design Competition

Call for Participation:

The theme of this year's CSIDC is Added Value: Turning Computers Into Systems.

Computer Society volunteers and staff are working together to make possible the second annual Computer Society International Design Competition.

CSIDC seeks members and nonmembers alike to contribute their professional expertise while serving as a project evaluator. Read the Call for Participation to learn more. <http://computer.org/CSIDC>

The IEEE Computer Society International Design Competition aims to advance excellence in education by having student teams design and implement computer-based solutions to real-world problems. Now in its third year, the CSIDC rewards many months of student-led computer design projects with thousands of dollars in cash awards and financial aid to the host schools. The top ten teams, based on written reports, meet face to face in Washington, DC, to demonstrate a working prototype of a device that could be marketed to fill a societal need.

All Electric Combat Vehicle 5TH Int'IAECV Conference

2 - 5 June 2003

Angers, FRANCE

AECV Conference 2003

Attention : Mr. Bruno Carrier-Marquis

Route de Laval BP 36

49460 MONTREUIL JUIGNE

FRANCE

Phone : +33 2 41 93 67 93

Fax : +33 2 41 93 66 81

E-mail : bruno.carrier-marquis@dga.defense.gouv.fr

SIBCON-2003

IEEE Siberian Conference on Control & Communications

Tomsk, Russia, October 1-2, 2003

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

The IEEE-Siberian conference SIBCON-2003 is aimed to offer opportunities to learn and share information on the latest advance in communication systems development and creation. It is to be held in Tomsk, Russian Federation, on October 1-2, 2003.

The conference is organized by the Tomsk Chapter & Student Branch of the Institute of Electrical and Electronics Engineers – IEEE, Tomsk State University of Control Systems and Radioelectronics (TUCSR) by decision of Russian Federation Ministry of Education, with support and assistance of the Siberian IEEE Chapters, Russian Foundation for Basic Research (RFBR), with technical co-sponsorship of the IEEE Communications Society.

The conference sections:

- Methods of computing and applied mathematics in communications.
- Mathematical simulation and modeling in modern technologies of control and information processing.
- Control systems and related problems.
- Crypto protection of communications.
- Official languages are English and Russian

Organizing Committee accepts the proposals for the short courses on the conference themes till May 30, 2003.

*Dr. O.V. Stoukatch,
TUCSR,*

40 Lenin avenue,
Tomsk, 634050, Russia
Phone: +7-3822-233077. Fax: +7-3822-
223262

E-mail: ird@tusur.ru
<http://me.tusur.ru/~tieee>

THE 2003 IEEE INTERNATIONAL SYM- POSIUM ON ELECTROMAGNETIC COM- PATIBILITY

EMC-2003

Istanbul Hilton Hotel,
Istanbul, Turkey,

May 11-16, 2003

Dear colleagues and fellow EMC engineers,

Hello from Turkey,

We take great pleasure in inviting you to participate in the 2003 IEEE International Symposium on EMC, which will be held with the cooperation of our colleagues in Turkey, at the Hilton Hotel in Istanbul, Turkey on May 11–16, 2003.

The symposium will provide a platform for the presentation and discussion of new developments in the field of electromagnetic compatibility and related topics. Web site at <http://www.ortra.com/emc2003>.

TECHNICAL EXHIBITION

We expect exciting new product launches and exhibitor events during the Symposium. Do not miss this unique opportunity!

SYMPOSIUM SECRETARIAT:

Web site: <http://www.ortra.com>. Looking forward to welcoming you in Istanbul,

Best Regards

Elya B. Joffe

Symposium Chairman

ICIP-2003

IEEE Signal Processing Society 2003 International Conference on Image Processing

September 14-17, 2003

Barcelona, Spain

CALL FOR PAPERS

The International Conference on Image Processing (ICIP), sponsored by the IEEE Signal Processing Society, is the premier forum for the presentation of technological advances and research results in the fields of theoretical, experimental, and applied image

and video processing.

ICIP-2003, the tenth in the series that has been held annually since 1994, will bring together leading engineers and scientists in image processing from around the world. Research frontiers in fields ranging from traditional image processing applications to evolving multimedia and video technologies are regularly advanced by results first reported in ICIP technical sessions.

Summary (to be received by): January 10, 2003

Acceptance: April 10, 2003

PROPOSALS FOR TUTORIALS AND SPECIAL SESSIONS

Tutorials will be held on Sunday, September 14, 2003. Proposals should be submitted to Fernando Pereira (fp@lx.it.pt)

before December 10, 2002.

FOR FURTHER INFORMATION:
<http://www.icip2003.org>

IEEE Second International Workshop on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications IDAACS'2003 SEPTEMBER 8 - 10, 2003, LVIV, UKRAINE

The main goal of the IDAACS'2003 is to provide a forum for high quality reports on the state-of-the-art Theory, Technology and Applications of Intelligent Data Acquisition and Advanced Computer Systems as used in measurement, automation, and scientific research, in industry and business.

Details of submissions and all information concerning abstract preparation for IDAACS'2003 can be found at the web site <http://www.idaacs.ssft.net>

Dates: Abstract submission 15 Jan 2003
Notification of acceptance 01 March 2003

All correspondence should be directed to:
Prof. Anatoly Sachenko
Director of Institute of Computer Information Technologies
Ternopil Academy of National Economy
3 Peremoga Square,
46004 Ternopil, Ukraine
Phone: +380 (352) 33-0830, 33-2026
Fax: +380 (352) 33-0024 (24 hrs)
E-mail: idaacs@tanet.edu.te.ua
[Http://www.idaacs.ssft.net/](http://www.idaacs.ssft.net/)

IEEE STANDARDS

Second in a series of articles on Region 8 Activity

IEEEStandards Association

In the last edition of the IEEE Region 8 news there was a report on the important contribution of IEEE standards in promoting new technologies and world trade. There was also a plea to all Region 8 members to support the standardisation activities of the IEEE Standardisation Association (IEEE-SA).



Ingo Ruesch

About the IEEE-SA

The IEEE-SA has been setting standards for electro- and info-technologies for over a century. IEEE standards are the strategic tools that foster quality design and manufacture, safeguard against electrical hazards, facilitate trade, improve transportation and progress global communications. They play a central role in research and development and product development across industry sectors – adding to the competitive-

ness of companies incorporating them.

Today, the IEEE-SA serves global industry with an established portfolio of standards programs and products. Moreover, the IEEE-SA works to enhance the acceptance and use of its standards in today's dynamic marketplace. It continues to broaden the scope of the documents and products to meet new technologies and to respond to industry needs. And it is through strong technical diversity and devoted work of its membership that the IEEE Standards Program thrives.

Think Standards. Think IEEE

The cornerstone of the IEEE-SA is its established standards development program – a program that offers balance, openness, due process and consensus and serves to ensure the technical integrity of its standards. The IEEE-SA's strength is provided by the dedicated efforts of volunteers lending their technical expertise and innovation, coupled with the IEEE-SA's ability to keep pace with the changing landscape of business, technology and the overall stan-

dards-setting environment.

In the IEEE-SA, the much respected standards-setting process offers to its members the unique opportunity to take part in shaping the direction of technology and its use by developing in-demand standards.

Getting Involved

There are hundreds of groups that are developing standards in the IEEE-SA. In addition, there are groups studying the technological and market need for standards. If you are interested in getting involved, please visit <http://grouper.ieee.org/groups/index.html> to get connected to groups in which you are interested or email getinvolved@ieee.org.

Detailed information about IEEE-SA individual or corporate (organisations) membership is found at <http://standards.ieee.org/sa-mem/index.html> or email ieee-sa-exec@ieee.org.

*Contributed by Ingo Ruesch,
Standards Coordinator Region 8
lu.ruesch@t-online.de*

Photo Quiz

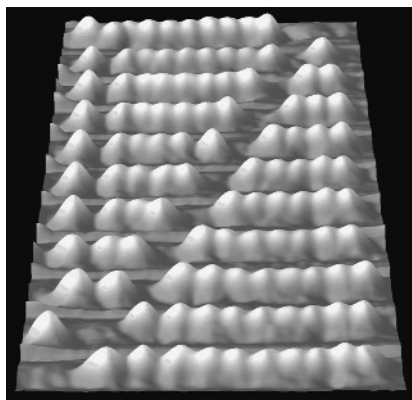
The Answer to August Photo Quiz: Is This The World's Smallest Abacus?

Answer: Yes, it is. James K. Gimzewski, leader of the nanoscience project at the Zurich Research Laboratory, appears in the 2001 edition of the Guinness Book of Records for an unusual discovery, that of the smallest calculator. It is in fact a "simple" abacus, the ten beads of which each have a diameter of less than 1 nanometer (0.000000001 meter).

James Gimzewski is one of the best-known scientists in the world of nanoscience. He has received many awards, including the 1997 Feynman Prize for his experimental research in the field of nanotechnology. He is currently Professor of Chemistry at the University of California, Los Angeles (UCLA). Before that, he was a group leader at the IBM research laboratories in Rüschlikon near Zurich for more than 18 years. He was intimately involved in the development of

scanning probe microscopy techniques that revolutionized the world of the nanosciences by making it possible to "see" molecules and even atoms.

The image shows a series of STM images showing the numbers 0 through 10 represented by single carbon-60 molecules (buckyballs) on a copper surface. The top row shows zero, with no molecules at the end of the row, and the successive rows provide representations of the numbers 1-10, with the appropriate numbers of molecules at the end of each row. Although it is



(currently) a slow process to manipulate numbers on the nanoscale abacus, its level of miniaturization is undeniable: hundreds of buckyball rows could fit neatly in a space the width of a typical feature on a Pentium chip.

The Winner of the August Photo Quiz

The Winner of the August Photo Quiz is Eduardo Bayón Perales, student member, student branch Universidad de Zaragoza Spain <http://www.cps.unizar.es/neocom>. Eduardo is treasurer of the IEEE student branch of the telecommunications faculty of the University of Zaragoza, Spain.



Honorable Mention and thank you for entering the August Contest go to Patrick Lemli, Michele Amoretti, Kiran Hiremath, and Roger Pollard who all gave correct identification of the nano object.

Acknowledgement and thanks to IBM Zurich Research Laboratories for the R&D and photograph of this fascinating object.

November photo quiz:

What is this, where was it developed, how, where and why is it used?

Some hints: It is a piece of Information Technology which measures events in a European Research and Development Laboratory.

Correct answers will be judged on completeness, accuracy, and quality of identification given in the answer. The Prize is winner's choice of any item from the IEEE-On-Line Store up to value of US\$35. Decision of judges is final. Answers by post or e-mail to The Editor Region 8 News (details on page 2) r8news@ieee.org, before deadline 1 December 2002.



Alexandria Univ. SB, Egypt "Business skills for engineers workshop" 6-7 September, 2002

Alex. SB and Egypt GOLD held a workshop for the first business skills for engineers in the Arab Academy for Science & Technology (AAST), Alexandria, Egypt . 6-7 September 2002.

1st Day:

The workshop began with the students registering during the opening reception & they were divided into six groups where the organizers gave a brief summary about the 2 days program.

Eng. Khaled Kamel, gave a lecture entitled "Team Work".

"Creativity" a very interesting subject that attracted large attendance was presented by Dr. Hassan El Fedawy, Faculty of Fine Arts.

Eng. Kais Badran, GOLD member, gave a session about Marketing & its importance for today's world engineers.

Market research was the subject that Miss Saima Jafri, Marketing Dept., Al-Watanya Company, talked about in her lecture where the attendance benefited a lot from her experience.

Last lecture of the day was by Mr. Vikas Bahinipati, Maastricht School of Management., Netherlands, in "Global Marketing". The lecturer explained the main concepts of the issue aided with live examples.

2nd Day:

Dr. Mohamed El-Banna, Alex. Subsection student advisor gave a brief summary about IEEE aiming mainly at the non-IEEE members.

"Branding & advertising" was the following issue presented by Eng. Kais Badran featuring the latest techniques used in that subject.

Eng. Nahel Amira, student representative, gave a session about the leadership where the attendants enjoyed having some self-tests during the session.

"Future City competition" was the title of the seminar introduced by Eng. Yasser Tawfik, GOLD member, who explained the Future City Competition & his suggestions to organize it in Egypt.

The last activity was a competition between the groups where each group has to innovate a product, plan for its marketing & customer presentation. The academy computer labs were used for that purpose.

The presentations were evaluated by the jury who chose a public GSM phone as the winner .

Attendance certificates were handed to all the students at the end of the day. That day was the most interesting one where students gathered & competed through a friendly and fun atmosphere which paved the way for future engineers to start their practical life in a co-operative & effective attitude.

Special thanks to Dr. M. El-Banna for his efforts, and to all the organizers who made this event possible.

*Rania Sleem, Alex. SB.
rania_sleem@hotmail.com*

Report from Jordan SB Fifth Anniversary of Uni. Jordan SB

This Month, The IEEE Student Branch at The University of Jordan will enter its fifth year as a student branch in Region 8.

It has a new counselor, Dr. Ali El-Mousa (elmousa@ju.edu.jo) who acts also as Vice-chair for the Jordan Section.

*Reporter:
Chairman of the University of Jordan
Student Branch
Hani Suwwan
hani-suwwan@ieee.org*

FUTO SB Federal University of Technology Owerri

Student Branch

The 2001/2002 academic session has been fruitful for the IEEE, FUTO SB. With over 50 student

members, 5 faculty members, over 70 intending SB members and about 6 intending faculty members, the IEEE in FUTO is really set to participate fully in the proficiency of networking the world.

Due to the vacation of the school for its second semester break, no activity was held until Tuesday 30th April 2002, when a technical evening was held in the University's Engineering Workshop III.

Kudos to our well deserving student guest speakers who spoke on the following topics:

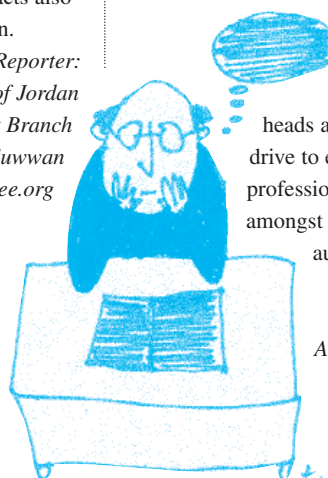
Ogbu Ikechukwu — Network Security
Onwuka Nnaemeka — Data Security
Nemi George — Introduction to Computer Telephony: Interoperability/Integration.

IEEE DAY AT THE FUTO SB 13th September 2002

With a keynote address by the branch counselor, an address by the branch chair, a presentation by the branch secretary on the IEEE and its membership benefits, paper presentations by two students, articulate advisory remarks from the immediate past chair, and a technically oriented closing address by the head of department of Electrical and Electronics Engineering, the FUTO SB marked its IEEE day on 13th September 2002.

Remarkably, the presentations were technically fascinating, the past chair's remarks were nothing short of a grand oratorical piece, while the IEEE heads address was a natural drive to encourage professional thinking amongst the inert-disciplinary audience.

*Onye Okechukwu E.,
Branch Chair
Ahukannah Edward N.,
Branch Secretary
Engr.
Michael C.Ndinechi,
Branch Counselor*





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IEEE Region 8 EUROCON 2003

The International Conference on COMPUTER AS A TOOL

Ljubljana, Slovenia

September 22 – 24, 2003

Call for Papers

The IEEE Region 8 EUROCON conference was re-established in July 2001 in Bratislava, Slovakia. **Our Objectives** are to present a rich Technical Programme together with a large variety of extra educational activities, a better overview of IEEE activities, and gain practical benefits from IEEE services. Professionals in our Region could meet more often and develop better contacts.

IEEE Slovenia Section is organizing **EUROCON 2003** in September 2003 in Ljubljana, Slovenia. The venue of the Conference, Ljubljana, belongs to the most progressive region of Central and Eastern Europe. The conference is supported by several respected universities, promising strong publicity and therefore high participation for the event. Videoconferences, invited lectures, presentations and tutorials will be held in conjunction to the basic scientific program. Presentations will be in English language.

Cover Theme: Computer as a Tool

The scope of the event includes, but is not limited to:

- computer-aided design • electronics • telecommunications
- automatic control • simulation and modeling
- computer and information science
- artificial intelligence • pattern recognition • biomedical engineering
- power engineering • measurements • education

Tutorials

CoLoS — Conceptual Learning of Science — held at the same time in Ljubljana — will bring together several research teams. The project aims to promote the development of innovative teaching methods and understanding of fundamental concepts in science and technology. They will present some of their results also to the participants of EUROCON 2003 on September 21, 2003.

Invited lectures and tutorials will be presented outside Ljubljana, where participants can enjoy the beautiful Alpine and Adriatic areas of Slovenia and their wonderful food. Together with high technical achievement we would like to treat all participants as our valued guests.

Important Dates

Submission of extended abstracts or full papers	<i>March 23, 2003</i>
Acceptance notification	<i>May 18, 2003</i>
Submission of camera ready papers	<i>June 22, 2003</i>
Call for Registration	<i>July 20, 2003</i>

For the latest information, please visit <http://www.eurocon2003.si/>