

News&Notes

IEEE Education Society

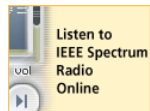
Rob Reilly, Editor October 27, 2007 Vol.5 No.2 ISSN 1559-3509



Institute of Electrical and Electronics Engineers, Inc.

Call For Papers

Looking for a *Call For Papers* on a specific topic, or a one that is sponsored by a specific IEEE society? [Try this IEEE Web search engine.](#)



Upcoming Conferences

FIE 2008 will be held in Saratoga Springs, New York USA

FIE 2009 will be held in San Antonio, Texas USA specific dates will be forthcoming.

FIE 2010 will be held in Virginia, USA specific dates and exact location will be forthcoming.

see more conferences listed elsewhere in this newsletter

THE Institute

Education Society Officers

Joseph Hughes
President
Georgia Inst. of Tech. USA
jhughes@ece.gatech.edu

Susan Lord
Vice President
University of San Diego USA
slord@sandiego.edu

Tony Mitchell
Secretary
North Carolina State University USA
slord@sandiego.edu

James Sluss
Treasurer
Univ. of Oklahoma USA
sluss@ou.edu

David Kerns
Sr. Past President
Olin College of Engr. USA
david.kerns@olin.edu

Daniel Litynski Jr.
Past President
Western Michigan Univ. USA
dan.litynski@wmich.edu



News&Notes Editorial Staff

Rob Reilly
Editor
reilly@media.mit.edu

Professor Burks Oakley II
Associate Editor
University of Illinois USA
oakley@uillinois.edu

Professor Martin Llamas-Nistal

EdSoc's 50th Birthday at FIE 2007: Gala Bash



"Happy 50th Birthday to a terrific IEEE society. The Education Society has a 50 year history of dynamism and innovation that is well known and well respected throughout the world." --**Joseph L.A. Hughes**, Education Society President

In the photo to the left: Education Society Vice President **Susan Lord** stands next to one of many banners found around the FIE 2007 conference proclaiming the 50th Anniversary of the Education Society.

In the photo to the right: IEEE President and CEO **Leah Jamieson** (left) and Education Society President **Joseph L.A. Hughes** prepare to cut one of the many EdSoc birthday cakes.



FIE 2007 in Milwaukee: An Exemplary Showcase

The 2007 Frontiers in Education Conference (FIE 2007) continues a long tradition of disseminating innovations that improve computer science, engineering, and technology (CSET) education. FIE is a major annual international conference devoted to improvements in CSET education. It is an ideal forum for sharing your ideas, learning about new developments in CSET education, and interacting with your colleagues.

Globalization has dramatically changed engineering. Global engineering teams design products for global markets. Knowledge has no borders in a world where information flow is digitized and sent worldwide in seconds. A core requirement of engineering globalization is an understanding of how the different cultures of the global marketplace shape product development, multi-national engineering teams, and consumer expectations. Engineering education must address this issue with innovative solutions including new pedagogies; new approaches that improve student learning of technical skills and cultural skills; improved methods of distance education; study-abroad components; curricula reform; and partnerships between academia, industry, government, and K-12 educators. Recent FIE conferences have addressed the borders between people and the impact that global hiring will have on engineering graduates. This year, in the city of Milwaukee—a city where Old World craftsmanship meets the New World of the information age—the FIE conference planners are especially interested in continuing the dialog about globalization with contributions that address the essential technical skills, cultural skills, learning skills, and curricula that will be required of graduates entering the global workplace.



This year's FIE Conference in Milwaukee was a huge success. There were over 600 attendees!



Above far left photo: **Daniel Litynski**, 2005-06 EdSoc President was a welcomed guest at the 50th Anniversary celebration as he was an officer and EdSoc leader for many years. In the middle photo above: **Mats Daniel** (left), Chair, EdSoc Nordic Chapter chats with **Rob Reilly**, Chair, EdSoc Chapters Committee. In the photo above right: (from left to right) CASEE post doctoral fellow **Susan Donohue** from the University of Virginia (USA); **Larry Richards**, General Chair of FIE 2010; **Rob Reilly**, Chair, EdSoc Chapters Committee; **Russ Mierer**, General Chair, FIE 2007 in Milwaukee (USA).



In the far left photo: **Ted Batchman** (left), Chair, FIE Steering Committee chats with long-time EdSoc leader **Rod Soukup**, a member of the EdSoc's Administrative Committee (AdCom).

In the middle photo: **Steve Watkins**, from St. Louis (USA) makes a presentation at the 2007 FIE Conference: Steve is a renown EdSoc leader who has served as an IEEE Congressional Fellow.

In the photo at the end of the row: **Melany Ciampi** an EdSoc AdCom member from Brazil visits with **Edmundo Tovar**, a fellow AdCom member and Spanish Chapter Chair during an FIE 2007 dinner.

Below far left photo: (left to right) EdSoc Swiss Chapter Chair, **Jean-Pierre Steger** shares a moment at FIE with **Trond Clausen**, AdCom Member and founder and past Chair of the Nordic EdSoc Chapter, and **Gerd Clausen**. Below in the center photo: (from left to right) 2003-04 EdSoc President **David Kerns** and past ASEE President **Sherra Kerns** visit with 2007 Hewlett-Packard/Harriet B. Rigas Award winner, **Bonnie Heck Ferri**. From the IEEE Spain Chapter in the photo (below right) **Mats Daniel** (left), Chair, EdSoc Nordic Chapter chats with **Rob Reilly**, Chair, EdSoc Chapters Committee. In the photo to the far right below: (from left to right) **Luis de la Fuente** (Universidad Carlos III, Madrid, Spain), **Martin Llamas-Nistal** (University of Vigo, Vigo, Spain), **Leah Jamieson** IEEE President and CEO, and **José V. Benlloch-Dualde** (Universidad Politécnica, Valencia, Spain).



Associate Editor
University of Vigo, Spain
martin@uvigo.es

Administrivia

This publication is a service of the IEEE Education Society. It is published approximately bi-monthly. If you would like a news item or photo placed in *News & Notes*, send it to: [Rob Reilly](mailto:Rob.Reilly@ieee.org), Editor (r.reilly@ieee.org).



SOME RIGHTS RESERVED
This work is licensed under a [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/).

FIE 2008 Conference: Call For Papers



Frontiers in Education

Racing Toward Innovation in Engineering Education

The Saratoga Hotel and Conference Center
Saratoga Springs, New York
Wednesday-Saturday • October 22–25, 2008

The 38th Annual Frontiers in Education (FIE) Conference is a major international event devoted to improvements in computer science, engineering, and technology education.

EdSoc Members lead the IEEE-USA and IEEE Region 1



At the recent IEEE Region 1 meeting in Burlington, Vermont USA, several Education Society members have achieved significant leadership roles. In the photo to the left, EdSoc member and IEEE-USA President **John Meredith** (left) chats with IEEE Region 1 Director-elect **Howard Michel** during the Region 1 dinner.

In the photo to the right, IEEE-Region 1 Director **Barry Schoop** (right) presents a Region 1 distinguished leadership award to **Mary Reidy**, Region 1 Education Activities Committee Chair and EdSoc member.



Spain Chapter Receives 2007 Distinguished Chapter Award



"The Spain Chapter is one of the best managed Chapters in the Education Society... and it's a model for all of us!" — **Trond Clausen**, Vice Chair, Chapters Committee

A meeting of the Spanish Chapter of the IEEE Education Society (photo above) was held in Jaen (southern Spain) in April 2007. In the photo, we can see a large part of the Chapter's Direction Committee along with the meeting's invited speaker. From left to right, **Inma Plaza**, **Rafael Pastor**, **Paco Arcega**, **Edmundo Tovar** (Chair of the Chapter), **Manuel Castro**, **Rafael Martos**, (the invited speaker, European Convergence Coordinator of the Jaen University), **Francisco Jurado**, **Jose Angel Sanchez** and **Francisco Mur**.

Spain: Major Conference in July 2008



[VIII Congreso de Tecnologías Aplicadas a la Enseñanza de la Electrónica - TAE 2008](http://www.tae.es/)

Zaragoza, España • 2-4 Julio 2008

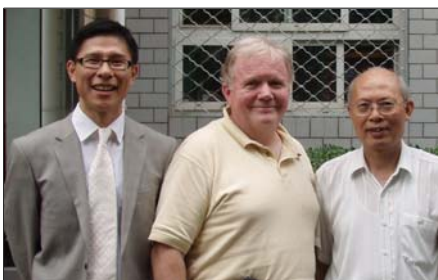
Major Initiative to Create Chapters in China

"During the planning stage of this trip, one of our potential goals was to establish a China-wide EdSoc chapter and build others from that base. But we had such strong support, it seems that we will have chapters in all the Sections!" --**Oliver Ban**, Director, Chapters Committee China Initiative



The IEEE Board of Directors created a half dozen new Sections in the People's Republic of China (PRC -mainland China) at its November 2006 meeting. There are also plans to create one or two additional Sections at the IEEE's Board meeting in November 2007. Also taking into consideration the evolving attitude of the Chinese government toward private business, the Chapters Committee saw an ideal opportunity to offer support for the creation of chapters in the PRC. With the advise of the Administrative Committee along with EdSoc funding and financial support from local PRC universities the committee chair, **Rob Reilly**, and EdSoc China Chapters Initiative Director **Oliver K. Ban** organized a 3-week trip to the PRC. This trip also included stops in Hong Kong and in Macau, both of which are special administrative units of the People's Republic of China, but which operate under a more Westernized economic system. This 3-week trip was a bold initiative to develop deep personal relationships with IEEE members in China and to seek their advice and guidance to create a structure within which the Education Society can grow in China!

In the left photo: Shown in a meeting at the IEEE's newly opened office in Beijing, China in the very early stages of the China trip, from left to right, **Ning Hua**, Director of China Operations; **Dr. Rob Reilly**, Chair, Chapters Committee; and **Dr. Oliver K. Ban**, Director of the Chapters Committee China Initiative.



During a stop in Beijing (photo to the left, from left-to-right) Director of China Operations **Ning Hua**, **Rob Reilly**, Chapters Committee Chair, and IEEE Fellow and eminent leader in China **Yi-Xin Zhong** pose for a photo after discussions about the structure and development of Education Society Chapters in the People's Republic of China.

While visiting Harbin, China, great strides were made and a chapter was formed. This was accomplished through the leadership efforts of **xx yy** (in the photo right; left hand person) IEEE Harbin Section



Secretary, the IEEE Harbin Section
Vice Chairman **Oun Wu** (center)
both from the Harbin Institute of
Technology and **Oliver Ban** (right)
the Director of the EdSoc's China
Chapter Development Project.

EdSoc's Student Publication: Multidisciplinary Engineering Education Magazine

IEEE MULTIDISCIPLINARY ENGINEERING EDUCATION MAGAZINE

The Official Student Publication of The IEEE Education Society
Student Activities Committee (EdSocSAC)



The IEEE Multidisciplinary Engineering Education Magazine (MEEM) is published quarterly under the auspices of the IEEE Education Society Student Activities Committee (EdSocSAC). The Editor-in-Chief and founder of the publication is **Emmanuel Gonzalez** of the Philippines (in photo to the right). The goals of MEEM is to facilitate the publication of students' papers whose works can influence the scientific preparation of pre-college students.

This online publication is an excellent venue for students to become familiar with the peer review process. Submission of manuscripts information is available at: <http://www.ewh.ieee.org/soc/e/sac/meem/ifa.htm>.

Brazil: ICBL Conference a Huge Success



"This conference is an excellent example of international cooperation that created an exemplary IEEE conference — it's a model for all of us!"

--**Rob Reilly**, Chair, Chapters Committee

[Read the ICBL report/photos](#)

During a visit to the Federal Center of Technology (CEFET) in Santa Catarina, ICBL 2007 leaders pose for a photo. From left to right: **Marcelo Castro** (ICBL Committee/EdSoc Student Committee Chair), Prof. Dr. **Golberi Ferreira** (ICBL Conference Chair), Prof. Dr. **Andreas Pester** (ICBL Committee), Prof. Dr. **Rosangela Casarotto** (CEFET Administration and Planning Director), Prof. Dr. **Consuelo Santos** (CEFET General Head), Prof. Dr. **Paul Lefrere** (Keynote speaker - Open University UK)

The first edition of the ICBL Conference – Interactive Computer Aided Blended Learning became an important international venue for e-learning with the organization of CEFET/SC and since then a part of a list of venues organized by the IAEO – International Association of Online Engineering. The other venues are:

- **ICL – Interactive Computer aided Learning** (<http://www.icl-conference.org>) Villach – Austria;
- **ICML – Interactive Mobile & Computer aided Learning** (<http://www.imclconference.org/>) Amman – Jordan
- **REV – Remote Engineering and Virtual Instrumentation** (<http://www.eu-lab.net/rev/>), Düsseldorf – Germany

The objective of this venue in Latin America was part of a spreading process for education discussions around the world, allowing professors and researchers from specific regions share their work internationally with a minimum travel effort. The main objective of this venue was to: discuss, share and develop subjects related to education techniques blended with technology.

Our objective could be achieved if scholars contributed their expertise to the conference in the form of presentations. The conference was a large success due to the more than 160 submissions being selected, of which 65% were presented as full paper, short paper sessions, round table, demonstrations and workshops. There were 190 people attending the conference from more than 30 different countries. The presenters and the attendees represented an excellent diversity of ideas, cultures and knowledge. During the three day conference, it was obvious that the conference drew together some of the best researchers to one place for a scholarly discussion of educational improvement.

Austria: ICL2007 Conference a Huge Success

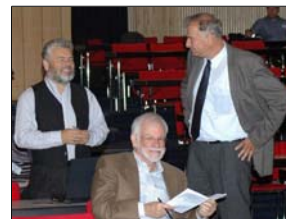
International Conference ICL

Villach/Austria
■ Interactive Computer Aided Learning

ICL2008 will be held from September 24-26, 2008 in Villach, Austria!



"The ICL conference in Villach is a conference that everyone should attend... it is a diamond in the rough!" — **Trond Clausen**, Vice Chair, Chapters Committee



The photo above to the left shows the large audience at the ICL 2007 conference. The photo above to the right shows (from left to right) **Franz Daschil** (Austria), **Sidney Burrus** (sitting, Rice University, Houston), one of the founder of the Connexion Project, and **Michael Auer** the General Chair and Founder of the ICL Conference and Chair of the EdSoc-Austria Chapter visit with each other during a break in the action at the conference.

Kuwait: Major Conference in April 2008



[International Conference on Technology, Communications and Education](#)

Kuwait City, Kuwait • 7-9 April 2008

IEEE Saudi Arabia Education Society Chapter event attracts over 140 participants

IEEE Saudi Arabia Education Society Chapter organized a seminar on "Dhahran Techno-Valley at King Fahd University of Petroleum & Minerals (KFUPM): A Local Mission with a Global Vision" at the SciTech Auditorium in Al-Khobar on February 26, 2007. The event was sponsored by the Information Technology Planning Division of Saudi Aramco and was attended by over 140 professionals. Dr. Faleh Al-Sulaiman, Supervisor of Dhahran Techno-Valley (DTV) and Director of SciTech presented the mission and vision of DTV. This Valley is envisioned to be the Middle East's most prestigious research and technology development nucleus with comprehensive business support, he said.

The event began with an introductory speech by **Dr. Bakr Hassan**, Chair of the IEEE Education Society Gulf Chapter, highlighting the various activities of the chapter. **Mr. Nabil Al-Dabal**, Chair of the IEEE Saudi Arabian Section and **Mr. Mohammad Abdulatif** from the Information Technology Planning in Saudi

Aramco, gave introductory remarks.



(in the photo to the left) **Mr. Ali Muhareb** (in the middle) Vice President of Corporate Planning in Saudi Aramco exchange talks with **Mr. Nabil Al-Dabal** (on the left) Chair of the IEEE Section in Saudi Arabia and **Mr. Ahmad Al-Shadawi** (on the right) President and CEO of Al-Falak IT company on their way to dinner at the end of the presentation



(in the photo to the right) **Dr. Bakr Hassan** (left), Chair of the IEEE Education Society in Saudi Arabia presents **Dr. Faleh Al-Sulaiman** the keynote speaker at the event a souvenir on behalf of the IEEE.

DTV is set to provide an ideal infrastructure for R&D to flourish in the region. Infrastructure for state-of-the-art equipment and test facilities will promote inter-disciplinary interaction between world-class researchers to tackle emerging challenges and transform innovations into successful business ventures. The valley houses a business incubator to nurture new IT and technology companies.

Dr. Faleh mentioned that Schlumberger research center is the first fully operational center at the valley. Additionally, DTV enjoys strong collaboration and partnership with national companies such as Saudi Aramco, SABIC and Saudi Electric Company (SEC); and international companies such as Nippon, Intel, Ciba and JCCP. We look forward to seeing these relationships develop in to a strong alliance and true partnership resulting in more centers being built in the Valley, he said.

According to Dr. Faleh, (KFUPM) views commercialization as crucial in today's economic climate and is pro-active in licensing. He cited as example, the joint KFUPM, Saudi Aramco and Nippon endeavor to develop a licensable refining technology, targeted for commercialization.

India: EdSoc Membership Development Committee Chair Shares Knowledge

During a recent trip to the Republic of India, **Professor Hossein Mousavinezhad**, the EdSoc's Membership Development Committee Chair, gave a number of lectures at prestigious universities. In addition to his technical presentations, he also offered the attendees and insight into the IEEE Education Society.

Top Right: **Professor Hossein Mousavinezhad**, EdSoc Membership Development Committee Chair, make a presentation at the S. R. Engineering College, Warangal, India. The topics of Professor Mousavinezhad were: Digital Filters and Digital Signal Processing with MATLAB and MATHCAD Applications and an introduction to the IEEE Education Society.



Bottom Right (from left to right): **Mr. Aju Thomas Abraham**, EdSoc Membership Development Committee member, Tata Consultancy Services, **Dr. N. T. Nair**, Chairman, IEEE India Council, **Mr. Amarnath Raja**, IEEE Kerala Section Chair, and **Dr. Hossein Mousavinezhad**, Education Society Membership Development Committee Chair.



Left: Standing beside a large banner announcing Dr. Mousavinezhad's presentation is **Mr. Amarnath Raja**, IEEE Kerala Section Chair



Jordan: Major Conference in Amman April 2008



International Mobile Computer Learning Conference

Amman, Jordan • 15-18 April 2008

Russia: EdSoc Member Leads Effort for Technical English Program



Alexander Mikerov (left), Education Society member and the Vice Chair of the IEEE Russia Northwest Section, is leading an effort to implement a Technical English Program in countries that were once part of the Union of Soviet Socialist Republics (USSR).

The Technical English Program (TEP) idea was discussed and approved at the R8 Committees in April 2006 in Paris and in October 2006 in Tampa. The project was also presented at the breakout session 1 of the IEEE Sections Congress 2006 in Tampa. The pilot project was just approved in April 2006 by the 86th Region 8 Committee Meeting in Vilnius and will be launched by the Russia Northwest Section from September 1, 2006.

Now the Region 8 there is a healthy IEEE area with growing membership, an increasing number of Section, and expanding IEEE activity. The great potential IEEE zone of expansion is represented by the 15 newly independent states of the former Soviet Union. However only 4 of them have their own IEEE Sections at this time. Compared to western world and north European countries, this zone has a very low IEEE membership. For example, currently Russia has only 710 IEEE members, while its closest neighbor Finland (who once was tiny part of the Russian Empire) has 969 IEEE members. Taking into account the population, Finland has one IEEE member for every 5,000 population and Russia only for 180,000. Such a huge difference, of more than 30 times, can not be explained only by a distinction in economic and technical developments, as the economic power and technical achievements of former Soviet Union is well known.

The major reason of such IEEE backwardness may be an effect of poor English language of its engineers, students and even professors. In the former Soviet Union:

- English learning was not obligatory in a secondary school and even in technical universities
- English was not useful in an engineering practice and everyday life.

Soviet engineers lived behind the iron curtain where:

- International contacts were not encouraged
- Industry export/import with western countries was insignificantly small
- All literature was in Russian (even all IEEE publications were translated)

Hence for the Soviet industry and academia, English was not needed.

In modern Russia great progress in free global communications is observed; however English is not obligatory nor in universities nor in secondary schools. This is in great contrast to the situation in Central and Eastern Europe where now 3 out of every 4 secondary school pupils study English. And such a sad situation is not

only in the former Soviet Union but also in many others non-Anglophone (non-English speaking) developing countries.

Therefore if the Region 8 is concerned with IEEE membership in developing countries it should furnish IEEE volunteers with a powerful tool to improve English. And such tool may be the proposed "Technical English Program" (TEP) similar to the IEEE "Distinguished Lecturer Program" (DLP).

The "Technical English Program" will provide mastery of English by arranging technical tutorials in Electrical Engineering for groups of listeners (students) during one semester. To reduce costs local teachers (trainers) may be employed. However it should be not professional English teachers on a staff but local IEEE volunteers – professors in Electrical Engineering because Electrical Engineering has a lot of peculiarities.

At the end of the semester a visiting lecturer from the IEEE Distinguished Lecturer Program will provide a short one of two days tutorial in Electrical Engineering. After such tutorial every student must have a presentation in English at a local seminar or a conference.

An IEEE Certificate with the Region Director's signature will complete the training. Furthermore, the best 2-6 students will obtain one year free IEEE student membership and one student will be awarded a grant for visiting and presenting a paper at any IEEE Conference in the Region 8.

Local professors may be a IEEE volunteer, however to encourage his/her contribution in such tutorials, it would be reasonably to award him/her a one year free IEEE membership in the Educational Society.

The proposed Technical English Program is the very powerful tool for IEEE volunteers in developing countries. Without a doubt it will increase the IEEE membership and speed up the IEEE transformation in an actual worldwide international organization. The implementation of this program in the Region 8 requires \$1,486 for the pilot project for one group in Russia Northwest Section and \$13,470 per year for the final project supporting 10 training student groups in different Region 8 Sections.

A Powerful Web-based Presentation Tool

Impatica for PowerPoint™ [Impatica for PowerPoint](#) makes it easy to add narrated business presentations to your web site or e-mail marketing programs. Now you can deliver fully narrated and animated PowerPoint presentations to essentially any Internet device without plug-ins and even at normal modem speeds. It is the software of choice for the [EdSoc's Distinguished Lecture Series presentations](#).

[Impatica for PowerPoint](#) simply converts the PowerPoint file into a compressed format that is optimized for streaming over the Internet. The Impatica file is typically 95% smaller than the PowerPoint HTML files. [Impatica for PowerPoint](#) supports most of the features of PowerPoint, including text, graphics, transitions, animation effects and, of course, narration.

For more information, pricing, to view demos of the software, and to download fully functional trial software, go to: [Impatica Web site](#).

Administrivia



[Education Society's Home Page](#)
[News&Notes archive](#)
[Send email to Editor, Rob Reilly \(reilly@media.mit.edu\)](mailto:reilly@media.mit.edu)