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IEEE President-Elect 2010 Candidates**

(Candidates listed in the same alphabetical order (by the last name) as they will be listed in the IEEE election booklet)

**J. Roberto Boisson de Marca**

It is a special privilege to address the membership of Region 10, which is one of IEEE's leading areas in membership growth. This growth reflects the increasing role of Region 10 countries in modern technology and scientific development. I will initially describe my professional and volunteer credentials and proceed to present my priority areas if elected IEEE President.

I received the engineering degree in my home country of Brazil. After working as a data communications engineer for one year I received a Fulbright Scholarship to enrol at the University of Southern California, where I earned a Ph.D. in Electrical Engineering. Since 1978 I have been on the faculty of the Catholic University, Rio de Janeiro, having held several leadership/administrative positions including Associate Academic Vice President. Throughout my career I sought to build an extensive international experience spending visiting periods in universities and industrial laboratories in different countries. Twice on leave I served as Scientific Consultant with AT&T Bell Laboratories, Murray Hill. In 2008 I was a Visiting Professor with the Hong Kong University of Science and Technology and later in the year a Guest Scientist with NEC Research Laboratories in Germany.

As Scientific Director of the Brazilian National Research Council I authorized the start up money for the national

research network that led the way to the widespread use of Internet in Brazil. Recently, I was appointed member of the advisory committee of Finep, the largest Brazilian funding agency/bank for research and innovation.

I am an IEEE Fellow and a full member of the Brazilian National Academy of Sciences.

My diversified volunteer career encompasses several areas including: governance, finances, membership, standards publications and extensive conference experience. During my tenure as IEEE Communications Society (ComSoc) President, the Society: achieved its highest membership; partnered with other organizations to offer new conferences, publications and services in key technologies; added new web-based services; launched the first Global Chapter Chair Congress; had a five-fold increase in Distinguished Lecture Tours and had a record revenue year. In the 90s, I was one of the leaders of ComSoc's successful globalization process that resulted in significant number of Regions 7-10 volunteers holding Board positions, chairing Conferences and serving on editorial boards. In this effort I worked with several distinguished Region 10 colleagues, including Lin-shan Lee, Tetsuya Miki and Tomonori Aoyama. In 2008 I held the office of IEEE Vice President, Technical Activities when I strengthened relations with other IEEE organizations to address Society membership decrease and development of joint services; established an industry leaders committee to improve the quality of our products for practitioners; stimulated creation of an RFID Technical Committee and triggered changes in the Society/Council performance review process. I also selected

Region 10 as the location for the annual TA/MGA Visit. I led an IEEE delegation visiting universities, industries and government organizations in China, Vietnam and Thailand. I also participated in the Region 10 annual meeting as well in the student and GOLD meetings held in India.

Current times of fast technological changes and economic uncertainty offer IEEE several challenges and opportunities. Continued progress towards IEEE's vision of engineering the future for the well-being of its members, the profession and humanity requires three related efforts: Volunteer engagement and satisfaction; offering cost-effective services that are essential to members' career growth; and transnational participation and collaboration. If elected IEEE President I will rely on my diversified professional and volunteer career to:

- i) Build on my past successes in globalization of IEEE to foster greater worldwide participation of members and volunteers; provide better services to all; and realize appropriate transnational representation in IEEE's leadership positions and decision-making bodies;
- ii) Develop an environment in which volunteers find enjoyment in their work and can balance their expectations with IEEE business requirements;
- iii) Create opportunities for young professionals to participate in IEEE activities and grow into leadership positions within IEEE volunteer structure;
- iv) Work with industry leaders to identify and launch new IEEE services that benefit practicing engineers and managers. Support initiatives to develop economical continuing education products and services;
- v) Promote business models within IEEE that enhance the membership and financial success of both IEEE and its component societies and regions;
- vi) Partner with staff to control and reduce current IEEE infrastructure costs and identify novel revenue streams. Improvements in business efficiency will allow additional cost-effective services to members worldwide;
- vii) Promote cooperation among IEEE units to address and advance emerging technologies;
- viii) Enhance the public visibility of member and volunteer achievements and the benefits to society that result from IEEE activities.



### **Joe Lillie**

I received the B.S. in Electrical Engineering (1974) and the M.S. in Telecommunications (1997) from the University of South western Louisiana, now the University of Louisiana at Lafayette (ULL). I have 36 years experience in telecommunications engineering and management. I was employed by BellSouth Telecommunications from 1973 to 2002 holding positions of Design Engineer, Planner, District Support Manager, Engineering Manager and Planning Manager. When I retired in 2002 I was on the Louisiana BellSouth State Staff providing engineering and construction support. In 2003 I joined NorthStar Communications Group, serving as the Director of Corporate Quality. In September 2005 I returned to BellSouth (now AT&T) and worked on Hurricane Katrina restoration activities and I continue to provide engineering support to AT&T on a part time basis. During my professional career I

have attended numerous training sessions on telephony, management, leadership, contract administration, and quality management. I have been married to Debbie for 37 years and we have two children, both Electrical Engineering graduates of ULL, three grandsons and two granddaughters.

### **Position Statement**

I have had the privilege of serving in IEEE leadership positions for several years. This service has allowed me to meet with members from all parts of the world and I have learned tremendously from these meetings. It is clear that we are a diverse group of individuals with diverse needs but with a common goal of serving the profession. By working together we can meet the needs of the members, improve the IEEE and at the same time accomplish our core mission of fostering technological innovation and excellence for the benefit of humanity.

We are the largest technical professional society in the world but we must change to maintain this elite status. To accomplish this change it is important that we focus on the member by providing a better overall member experience, increased member engagement opportunities, and improved member benefits. If we establish the proper focus we can grow the overall membership while at the same time grow society membership and increase overall society participation.

It is also necessary that we change the way we run the business of the IEEE. This change can be accomplished by a proper focus on the operation which must include overall reduced costs, proper staff development and elimination of duplicated services. Once this is accomplished we can reduce the cost of membership and provide improved member services.

### **IEEE Activities**

I am currently a member of the IEEE Board of Directors serving my second year as the Vice President of Member and Geographic Activities and a member of the IEEE Foundation Board of Directors serving as Foundation Treasurer.

I have served a total of six years on the IEEE Board, two years in my current position, two years as the IEEE Treasurer and two years as a Regional Director. I have also served on the IEEE Finance Committee for seven years and served numerous years on several other Board level and international level committees.

### **Accomplishment**

My IEEE accomplishments are team accomplishments. The IEEE is a large, broad, diversified entity with many active volunteers. My approach to managing change, process improvement and issue resolution during my 37 years of volunteer involvement has been to bring members together to provide input and develop proposals to improve IEEE. The diversity of our members is one of our greatest assets and by using the team approach we are able to utilize this diversity to benefit all members. These team accomplishments include the following:

- Working with the Finance Committee and the various finance related committees we have made numerous process changes that have resulted in improved financial management of the member assets. These changes have served us well in the recent past; however, additional work is required.
- Working with several committees we have developed and deployed professional development programs worldwide. Professional development conferences, seminars, programs and presentations have resulted from this activity and have

assisted the members with career and skills development opportunities.

- Working with the various OU's we have created member engagement and educational opportunities that will enhance the career of our members.

I will continue to use this approach in my future active volunteer involvement.

### Summary

I look forward to the opportunity to continue to serve you the member and utilize TEAM IEEE to enhance the IEEE for the benefit of humanity. I have the skills to lead the IEEE and the profession and I ask for your support.

[www.ieee.joelillie.com](http://www.ieee.joelillie.com)



**Moshe Kam**

Department Head & Robert Quinn Professor  
Electrical & Computer Engineering Dept  
Drexel University  
Philadelphia, Pennsylvania, USA  
[www.moshekam.org](http://www.moshekam.org)

Moshe Kam (Ph.D., P.E.) is Department Head and Robert Quinn Professor of Electrical and Computer Engineering at Drexel University. He leads Drexel's Center for Excellence in Information Assurance Education, and directs the Data Fusion Laboratory – a research laboratory founded 20 years ago to investigate target classification by naval radar systems.

Kam's professional interests are in wireless communications, robotics and navigation, detection and estimation, and engineering education. His research was supported by the US National Science Foundation (NSF), DARPA, ONR, CERDEC, Lockheed Martin and GlaxoSmithKline.

Kam is a long-time IEEE volunteer. His service to IEEE includes the positions of Section Chair (Philadelphia, 1998), Region Director (Region 2 – Eastern USA, 2003-2004), and Vice President, Educational Activities (2005-2007). He was a member of the IEEE Board of Directors from 2003 to 2007, and chaired the IEEE Audit Committee and the Membership Development Committee. In 2009 he chairs the IEEE New Initiatives Committee and the Committee on Global Accreditation Activities. He is also a member of the Board of Directors of ABET (Accreditation Board for Engineering and Technology).

Kam received the B.Sc. degree in 1977 (Tel Aviv University), and the M.S. (1985) and Ph.D. (1987) degrees from Drexel University, all in electrical engineering. He is an IEEE Fellow "for contributions to the theory of decision fusion and distributed detection" (2001) and a recipient of an IEEE Third Millennium Medal. He served as an NSF Presidential Young Investigator (1990-1995). He is a Professional Engineer licensed in Pennsylvania.

### IEEE Accomplishments

Large-scale expansion of **IEEE's pre-university education programs** – including introduction (in cooperation with IBM) of [www.TryEngineering.org](http://www.TryEngineering.org), an educational portal for 8-18 year olds, their parents and teachers. This is the premier source on pre-university education in engineering and computing (available in 7 languages, with university searches in 33 countries).

Significant expansion of **IEEE's Teacher In-Service Program (TISP)**, which trains IEEE volunteers to work with pre-university teachers of Science and Mathematics. TISP

introduces thousands of students every year to engineering and engineering design. TISP sessions were conducted so far in Argentina, Canada, Malaysia, Peru, Russia, South Africa, Uruguay, and the United States. In late 2009 they will also be conducted in China.

Expansion of IEEE activities in **academic program accreditation** worldwide, and creation of on-line resources ([www.accreditation.org](http://www.accreditation.org)).

**Introducing a new membership grade**, the Graduate Student Member (GSM), to recognize the growing numbers of graduate students in the IEEE membership, and enable new services and products for them.

**Simplifying membership renewal**: helping to eliminate layers of bureaucracy and make the annual membership renewal (as well as joining IEEE) quicker and more efficient.

Leading the effort to merge IEEE with the Electrical and Computer Engineering honor society **Eta Kappa Nu**.

**Improving internal standards, oversight and financial monitoring activities** – as IEEE Audit Committee Chair, improving compliance with the Sarbanes-Oxley Act (2002).

### Position Statement

As President my goals will be to:

- **Ensure IEEE's health in the face of a global economic downturn**

Focus IEEE on core activities, increase responsiveness to markets, renew and strengthen IEEE's ties to members and customers, and seek strategic alliances that will strengthen IEEE in the long run.

Expand opportunities for member networking, career building, and employment assistance.

- **Increase the value of membership**

Provide members with more choices in selecting membership options and services. Allow more freedom in deciding which IEEE activities and subscriptions members support, participate in (and pay for).

- **Develop publications and services for practicing engineers**

Introduce IEEE Application Notes, Technology News feeds, application-focused papers, and introductions to technical standards.

Develop on-line educational modules and certification programs in rapidly-developing new technologies.

- **Enhance the profession's public image and expand pre-university educational activities**

Improve public understanding of the contributions of engineering, technology and computing, and increase the propensity of young people to select them as career paths.

- **Expand IEEE's reach beyond our traditional disciplines**

Recruit, as members, professionals who did not graduate from academic programs traditionally associated with IEEE membership, yet work in IEEE's fields of interest (like multimedia, entertainment technology, life sciences, and bio-medical applications).

I have served IEEE as Vice president, Board of Directors Member, Region Director, and Section Chair.

I know how IEEE works, how to encourage and implement change, and how to promote wide participation and build consensus.

I plan to move IEEE forward forcefully and with a strong sense of purpose.

## IEEE HQ News and Announcements

### IEEE Sections Congress 2008 Recommendations

Over 1,000 people attended IEEE Sections Congress 2008 (SC08) in Quebec City, Canada. A major objective of this event was to obtain feedback from the IEEE Members through their Section delegates and to follow up on the priorities identified. The top ten SC08 recommendations have been presented to the IEEE Board of Directors and the MGA Board has agreed to take ownership of the recommendations. An MGA Board member has been assigned the responsibility of working with other IEEE organizational unit(s) in providing a response to each recommendation. The MGA Board will provide status reports on the recommendations to all SC08 attendees on a regular basis. A final report on the top ten recommendations will be completed by December 2010.

### MGA vTools Project - vTools.Meetings and vTools.WebInABox

The MGA vTools project continues to provide Sections, Chapters, and Affinity Groups with a set of volunteer-developed tools to assist them in managing their ongoing activities. After a successful pilot, vTools.Meetings has entered the production mode. In the latest release of the tool, officers can create meeting announcements without a webmaster. Members and the public may view upcoming meetings online, drill down for details, and register. The tool also feeds meeting information into the community desktop in myIEEE.

The vTools team also launched the vTools.WebInABox pilot. The tool provides a wizard to assist officers in generating simple websites in an automated fashion without a webmaster. Website contents are automatically updated based on data from the central IEEE database and easily integrate with vTools.Meetings. The Beta version is available upon request. Additionally, the vTools team started a knowledge base with examples of how MS Street Maps can be used to show membership distribution on a map to assist officers in deciding where to hold meetings, form new Chapters, etc. For questions regarding vTools, please e-mail the vTools team.

### IEEE Lasers and Electro-Optics Society (LEOS) Becomes IEEE Photonics Society

The IEEE Lasers and Electro-Optics Society (LEOS), a leading global society in the field of photonics, lasers, and electro-optics, has officially changed its name to the IEEE Photonics Society. The new name reflects the expanding applications associated with the Society's field of interest and better represents its vision, mission, and scope.

Photonics has become widely used to describe the broad field of research and applications relating to the generation, control, and detection of light, including optical fiber communications, lasers, CDs, DVDs, supermarket scanners, and digital cameras.

All IEEE Lasers and Electro-Optics Society Chapters will be renamed IEEE Photonics Society Chapters. For example, the IEEE Montreal Laser and Electro-Optics Society Chapter will now be referred to as the IEEE Montreal Section Photonics Society Chapter. MGA will update the meeting report form and the geographic roster to reflect this change.

### AIP AND AVS ADD OVER 250,000 ARTICLES IN APPLIED PHYSICS TO THE IEEE XPLORE DIGITAL LIBRARY

IEEE has teamed up with two of the leading physics organizations—the American Institute of Physics (AIP) and AVS, the technical society devoted to materials, interfaces, and processing, to offer a new subscription package available through the IEEE Xplore digital library. Developed for corporations and government research centers, the AIP/AVS Applied Physics Library provides subscribers with unlimited access to five top journals in applied physics, including archives dating back to 1930.

This new subscription will provide full-text access to more than 250,000 articles from five AIP/AVS journals that will be fully integrated into IEEE Xplore. These titles include Applied Physics Letters, Journal of Applied Physics (the #1 and #2 most-cited journals in applied physics) and Review of Scientific Instruments (all from AIP); and Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films and Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures (both published by AVS).

Read the full press release at

<http://www.ieee.org/web/aboutus/news/2009/16june.html>.

### Recognizing Outstanding IEEE Volunteers MGA Awards

You can help recognize the efforts of outstanding volunteers by nominating someone for one of the prestigious Member and Geographic Activities (MGA) Awards. Each prestigious award has a unique mission and criteria and offers the opportunity to honour distinguished colleagues, inspiring teachers, and corporate leaders.

If you know someone who has made substantial Regional contributions through innovative projects, exemplary leadership, service, or by fulfilling the goals as related to transnational activities, consider nominating them for one of the following awards:

- MGA Achievement Award
- MGA Innovation Award
- MGA Leadership Award
- MGA Larry K. Wilson Transnational Award
- MGA GOLD (Graduates of the Last Decade) Achievement Award

Please complete the Online Award Nomination Form. The deadline for nominations is **15 October 2009**. If you have any questions, please e-mail MGA Awards.

### The IEEE Annual Elections

**The opportunity to vote in the IEEE Annual Election is a privilege of your membership. Your vote is important to the IEEE and for your Region.**

**Remember that postgraduate student members are also eligible to vote in the Annual IEEE Elections**

## R10 News and Announcements

### R10 Distinguished Sections Awards Winners

It is my pleasure to announce the results of the R10 Distinguished Large and Small Section Awards.

The R10 Awards & Recognition Committee has selected **Taipei Section** as the 2008 R10 Distinguished Large Section and **Kharagpur Section** as the 2008 R10 Distinguished Small Section.

The selections of the two Awards are based on the performance summarized in the 2008 Annual Reports submitted by R10 Sections.

Award certificate will be presented to these winning Sections at the 2010 R10 annual meeting to be held early next year.

Taipei and Kharagpur Sections have also been nominated from R10 to participate in the MGA Outstanding Large and Small Section Awards Program.

Congratulations on the job well done by Taipei and Kharagpur Sections!

**Takatoshi Minami**  
**Chair, IEEE R10 Awards & Recognition Committee**

### R10 Student Branch Website Contest 2009 Results

I am delighted to declare the results of the R10 Student Branch Website Contest 2009. First let me congratulate the Student Branches which participated in the contest and from the final scores, it's evident that we had a tough competition. A heartfelt 'thank you' to the judges who took time to judge the contest which had 6 criteria, with around 40 subcriteria for judging.

Congratulations to the following winning Student Branches.

#### First Place: US\$ 500 & Certificate

The University of Western Australia, Australia  
<http://www.uwaieee.org>

#### Second Place: US\$ 350 & Certificate

Jamia Millia Islamia, New Delhi, India  
<http://www.ieeejmi.com>

#### Third Place: US\$ 200 & Certificate

Fr. Conceicao Rodrigues College of Engineering, Bombay, India  
<http://www.frcrce.ac.in/IEEE/>

Congratulations! Best wishes to all the other Branches, better luck next time, the results sheet on the R10 website can tell you where your Student Branch stands.

Let me thank Om Perakash Batra RSR for all the help.

**Mini S. Thomas**  
**R10 SAC Chair**

### NEWS FLASH

Taipei Section selected as the 2008 MGA Outstanding Large Section Award recipient.

CONGRATULATIONS TAIPEI SECTION!

### R10 Education Activities Support Grants for 2009

R10 Education Activities Committee Chair Professor Proadpran P. Punyabukkana has announced the approval of funds for educational activities in 2009 for the Sections/Chapters listed below. The total amount approved to support the educational activities in 2009 is \$6,200.

#### 1. Western Australia Section - \$300

Soft Skill for Graduates/Student members (in the next 6-12 months) to equip students/graduates to be ready for the market in the tough economic times.

#### 2. Calcutta Section, India - \$300

IEEE Outreach Seminar Series - 2009 Part-1: Trends in Wireless Network Technology and Applications (Sept. 2, 2009). This is a series of technical seminar cum outreach program with educational activities at 4 engineering institutes.

#### 3. Calcutta Section, India - \$300

IEEE Outreach Seminar Series - 2009 Part-2: Advances in Information & Communication Technology and Mobile Applications (Sept. 4, 2009). This is a series of technical seminar cum outreach program with educational activities at 4 engineering institutes.

#### 4. Gujarat Section, India - \$300

Technical Seminar (April 18, 2009) to update participants with advances in the field of signal processing, image processing and communication.

#### 5. Hyderabad Section, India - \$300

Soft Skill Awareness Programme on Intellectual Property (June/July 2009) to organize awareness programs on Intellectual Property through webinars and tutorials.

#### 6. Hyderabad Section, India - \$300

Soft Skills Program for UG Students of Engineering Colleges September, 2009 – communication, interpersonal skills, especially for the student members of the 60 Student Branches under IEEE Hyderabad Section.

#### 7. Hyderabad Section, India - \$300

Soft Skills Technical Program (Oct/Dec 2009) - for the students of Engineering Colleges on the recent trends and developments in the fields of Computers, Communication and Power Engineering.

#### 8. Hyderabad Section, India - \$300

Technical 8-day intensive course (June 1 - 15, 2009) on "Fundamentals of Electromagnetic Theory" - Quality Improvement Program (QIP) for the Faculty of Engineering Colleges.

#### 9. Kerala Section, India - \$300

Soft Skills Training Program for Engineering Students (August 8, 2009). Introduce the student to the skill set needed in the industry.

#### 10. Kerala Section, India - \$300

Technical Colloquium on Wireless Broadband Communications (July 11, 2009). Introduce the student/teacher/engineer/practitioner to the current trends in Wireless Broadband Communications.

#### 11. Madras Section and Student Branch, India - \$300

Technical Faculty Development Program on Time-Frequency Signal Analysis (July 7 - 13, 2009). To train 30 faculty members from various engineering colleges in Tamil Nadu.

#### 12. Madras Section and Student Branch, India - \$300

Technical Faculty Development Program on Service Oriented Architecture (SOA) (November 19 - 21, 2009). To train 30

faculty members from various engineering colleges in Tamil Nadu.

### **13. Madras Section and Student Branch, India - \$200**

TISP – Educational Outreach Program - IEEE Computer Society Smart Car Competition (July 03 – 04, 2009). Application of engineering concepts to support the teaching and learning of science, mathematics and technology.

### **14. Indonesia Section, Indonesia - \$300**

Soft Skill educational program in IT Project Management (April 18, 2009) to give an understanding of the importance and opportunities in IT Project Management.

### **15. Indonesia Section, Indonesia \$300**

Technical Colloquium on International Remittance and Mobile Banking (April 11, 2009) to give an understanding of the importance and opportunities in International Remittance and Mobile Banking.

### **16. Seoul Section, Korea - \$300**

Technical Symposium on Nano, IT & Reliability (May 15, 2009). To promote mutual understanding and expansion of new knowledge in the area of NT, IT & Reliability.

### **17. Malaysia Computer Society - \$300**

Technical & Soft Skill - IEEE Computer Society Software Writing Competition (July - October 2009). The competition's main objective is to encourage students to be more interested in programming languages and eventually become more efficient in writing quality software. Furthermore, introduce some of the IEEE software development standards and encourage students and staff to take the IEEE CSDP.

### **18. Malaysia Computer Society - \$300**

Technical & Soft Skill - IEEE Computer Society Smart Car Competition (June - October 2009). The technical and educational-based competition aims to expose students to programming on an actual 32-bit micro controller (embedded systems) and to enable them to enhance their technical skills by challenging them to produce an intelligent racing car.

### **19. Malaysia Education Society TISP - \$300**

Robot Teacher in Service Program - Introduction to TISP Robot is a series of training program for the secondary school's teachers (August 9, 2009). This training will be conducted 2 times in a year to cover most of secondary school around Selangor and Kuala Lumpur areas.

### **20. IEEE Malaysia PEL/IE/IA Joint Chapter - \$300**

Technical/Educational Outreach - NATIONAL LECTURERS PROGRAM (NLP) NLP is merely an education program with intention to exchange ideas with experts in the country.

### **21. Malaysia Section - Signal Processing Society - \$300**

Technical short course on Real-Time Image and Video Processing (July, 2009). The course will cover image and video processing basics and will provide the participants with hands-on examples.

**Proadpran P. Punyabukkana**

**Chair, R10 Education Activities Committee**

## **IEEE Globalization of Professional Activities Project Free E-book and Webinars to IEEE Members**

The adhoc Globalization of Professional Activities Committee was form to implement the following recommendation at the Sections Congress in Quebec, Canada

*Quebec Section Congress Recommendation 32: Member Benefits - There are a good number of IEEE member benefits that are relevant or accessible to Regions 1 - 6 members only. IEEE should implement similar benefits of local relevance across all Regions.*

Y W Liu (ywliu@ieee.org) is appointed as the R10 IEEE Globalization of Professional Activities Representative in the Committee. The Steering Committee includes Co-Chairs: Russell Lefevre ([r.lefevre@ieee.org](mailto:r.lefevre@ieee.org)) and Francisco Martinez ([f.martinez@ieee.org](mailto:f.martinez@ieee.org)). The GPA Project is in progress and the committee is still working to provide more service to members in near future.

### **GPA Project Goals:**

- inventory and assess the current state of Professional Activities within IEEE
- compile data on member interests and preferences related to Professional Activities, their management and financing
- develop a strategic plan to assist all regions in developing Professional Activities tailored to their specific needs and interests.
- to identify what “professional activities” the members in Regions 7-10 want and appropriate options for delivery
- current Region 1-6 activities may provide models or in some cases can be adapted

Please visit <http://ieeusa.org/careers/gpa/> for detail and to download E-book of your interest. There are also very interesting Webinars.

**YW Liu**

**R10 IEEE Globalization of Professional Activities Representative**

## **Region 10 Chapter Activities**

Society Chapters and Joint Chapters are very important IEEE entity in any Section. A well established active Chapter serves its member more efficiently and caters to the members' technical and professional needs. Wherever membership in a Society is more than 12, a Chapter can be formed. Joint Chapters are formed where total memberships in related Societies are more than 12 (with minimum 3 members in each Society).

There are 407 (as on 31st December 2008) Society Chapter/Joint Chapters in Region 10 and there are further scopes for formation of more Chapters in Sections with existing Society membership. Region 10 is giving importance on enhanced Chapter activities and focusing on formation of new Chapters with emphasis on keeping existing Chapters active. As a Section leader or IEEE volunteer we need to promote Chapter activities in our Sections, as it brings lot of benefits to the members with the help of Section and Societies. This contributes in the expansion of IEEE and arrests fluctuation in membership and provides sustained growth.

In 2008, 28 new Chapters were formed in Region 10. The efforts are continuing for new Chapters/Joint Chapters formation. Till the end of May 2009, 14 new Chapters/Joint Chapters have already been formed.

**IEEEExtreme 3.0 is scheduled for 24 October 2009. It is a 24 hour programming challenge for IEEE Student members. See page 28 and also check the IEEE web site for regular updates.**

Japan Council has 37 Chapters and tops the list followed by Beijing Section with 33 Chapters and Taipei Section with 29 Chapters. Tainan Section is taking Chapter activities very seriously and may come in the list of top 3 in 2009.

Following efforts have been made to accelerate Chapter activities in Region 10 in 2009.

- Chapter Activities webpage created and uploaded on R10 website for information on Chapter formation and other Chapters related information.
- Society membership related information has been provided to all Sections for formation of new Society Chapters wherever potential membership exists. Consequently 14 new chapters have been formed in Region 10 by May 2009 and more are in pipeline.
- Concerned Sections have been informed regarding inactive Chapters pertaining to their Sections and are being continuously followed up. Matter related to not reporting and incorrect reporting has been resolved.
- Incentive for formation of first Society Chapter in newly formed Sections has been announced.

For further details related to Chapter activities please visit

[http://ewh.ieee.org/reg/10/Chapter\\_Activity/ChapterActivityMain.html](http://ewh.ieee.org/reg/10/Chapter_Activity/ChapterActivityMain.html)

**Deepak Mathur**

**IEEE Region 10 Chapter Coordinator**

### Where the action is! - MGA GOLD Meeting in New Jersey

Amid concerns about the influenza A H1N1 epidemic, the MGA GOLD Committee held a meeting in New Jersey on May 15 and 16, to come up with a new strategic plan for GOLD activities. Despite changing my mind a couple of times about whether or not I would travel to the US to attend the meeting, I am glad I did, because we managed to cover a lot of ground in the 2 days.

The strategic planning sessions were facilitated by volunteer Loreen Ozolin (previously a R10-resident but is now based in Europe), who would normally spends 4 days on a workshop like this with business executives. Over the course of just 2 days, the MGA GOLD committee brainstormed, debated and articulated new values, mission, vision, goals, objectives and action plans. The draft strategic plan is still a work in progress, so further refinements may still occur. But just to give you an idea of where we're heading, the new Vision and Mission developed at the workshop are as follows:



A group photograph of the MGA GOLD Committee and MGA staff

### **GOLDen Vision**

Inspire and enable recent graduates to become the global community of the brightest, dynamic, and innovative leaders for the benefit of humanity.

### **Mission**

To inspire, energise, and empower recent graduates to envision and realise their dreams.



Winners of IEEE caps at the MGA GOLD meeting - Megha Joshi, Helene Fung (R10) and Aisha Yousuf (R4)

We also continued last year's tradition of bonding with everyone by bringing some snacks from their hometown to share. There were Indian sweets, Tim Tam chocolate biscuits, potato chips, fig Turkish delights, Cantonese little cakes, chocolate fudge and maple cookies just to name a few.

This trip was also particularly special for many of us who live outside the US. Day 1 was held inside the IEEE's Operations Centre in Piscataway, and included a tour of the facilities. Being actually there, where the action is, where we have heard so much about but never set foot in, was just sooooo cool! It was also a great opportunity to meet some of the staff members and other volunteers with whom we may have corresponded numerous times but never met face to face. It was also a pleasure to meet IEEE's new executive director, fellow Aussie Jim Prendergast.

But while the meeting is over, the work is not finished. Far from it. I will be leading a work group within the MGA GOLD committee which aims to establish a nominations and appointments subcommittee before the end of the year, and to ensure we establish a systematic way to identify and nominate promising GOLD talents for appropriate opportunities within the IEEE.

**Helene Fung**

**R10 GOLD Coordinator**

## R10 GINI Progress Report

GINI stands for Global Integrated Network of IEEE. R10 GINI was officially launched during the R10 Student Congress held in Madras in January 2008. R10 GINI started with a mentoring Kerala Section, which implemented LINK, a similar network in Kerala, and 5 pilot Sections, Madras, Hyderabad, Delhi, New Zealand and Pakistan. The motto behind GINI is simply to enhance and encourage communication between Student Branches of a Section initially, spreading this to the country and finally IEEE Region 10. This is achieved by bringing Student Branches to work together, by promoting effective inter communication between Student Branches, which will lead to increase in the IEEE activities, reactivation of sick Student Branches, formation of new Branches, effective transfer of responsibilities among Branch officers and making the IEEE membership more valuable to the student members.

### GINI Madras

Global Integrated Network of IEEE in Madras Section shortly named as GINIMAS was inducted during the Region 10 Student Congress 2008 at Chennai. It came into work with a few volunteers with the same vision and mission and Madras Section Student Branch Office Bearers Meet was organized on 8th March, 2008. Madras Section which is the largest in terms of the number of Student Branches was divided in 10 hubs based on Geographical Vicinity. Hub Centres were formed with Hub leaders and Hub executive committee. The Executive Committee of GINIMAS was formed with a framed constitution, Mission and Vision Statements. Two SPACs were organized thereafter and membership drives were conducted in 6 Student Branches by volunteers from GINIMAS participating along with the SAC. Two face to face meetings of the Hub leaders were organized where R10 SAC participated and about 5 online meetings were organized.

The GINIMAS team works with a single goal in thought towards the betterment of Student Branches and in adding value of IEEE in Student Branches. More events are planned for the latter half of 2009.

The details of the Section before and after the formation of GINIMAS are as follows:

Number of Student Members before March, 2008 (before formation of GINI):	2882
Number of Student Members as of June, 2009 (after the formation of GINI):	4031
Increase in Membership:	1149
Student Branches as of December, 2008:	129
Present Number of Student Branches:	134
New Student Branches:	5

### GINI Pakistan

Global Integrated Network of IEEE (GINI) was initially initiated in Karachi in May 2008 and within three months GINI spread to all 3 Sections of Pakistan, Karachi, Islamabad and Lahore and it became the GINI Pakistan. GINI has played very influential role by not only reactivating the dead Branches but it has also connected the Student Branches from all three Sections which was the missing link earlier. Following are the statistics that shows the difference that GINI has made in Pakistan:

Members (Before GINI – Dec 2007)	482
Members (After 1 year of GINI – May 2009)	586
Percent Increase:	21%

It was made possible with efforts from GINI volunteers and support from Sections. GINI promises to make this network even stronger with the vision of no sick Branches in Pakistan and adding more and more new Branches to the family of IEEE.

### GINI Hyderabad

IEEE Hyderabad Section has been active in implementing the concept of GINI in the Section for sustained networking among the Student Branches. The Section has been divided into 3 hubs and has introduced the concept of Zonal Congress. Zonal Congresses, each at Vishakhapatnam, Warangal and Hyderabad, were conducted effectively in the three hubs.

The GINI team also hosts stalls in other IEEE Student Branch events in order to recruit more active volunteers for GINI and to spread the news of Student Branch Networking. Such stalls were hosted at Technical Festivals conducted by IEEE VBIT Student Branch and IEEE BVRIT Student Branch.

The Section has organized 6 Face to Face meetings of GINI Volunteers and also 8 online meetings till this date at various places.

**Mini S. Thomas, R10 SAC** With inputs from Barnabas (Madras), Ravender (Pakistan) and Prasanna (Hyderabad)

## R10 Humanitarian Activities

True to its core purpose of "Fostering technological innovation and excellence for the benefit of humanity", IEEE has set up an infrastructure to facilitate IEEE members to actively participate in delivering technological solutions to the developing areas of the world. IEEE's thrust in Humanitarian Activities has been mainly focused through three instruments.

### IEEE's HTC - Humanitarian Technology Challenge

IEEE Humanitarian Technology Challenge is a forum started by IEEE, the United Nations Foundation, the Vodaphone Foundation and the IEEE Foundation to address the need to bring together humanitarian organizations, first responders, technical experts, corporations and philanthropic groups to address critical issues for the benefit of vulnerable sections of humanity.

The HTC aims at setting up a mechanism for providing Technology solutions for Humanitarian Organizations, be it UN Organizations, NGOs or other civil society organizations. In collaboration with the UN Foundation, IEEE has identified the main areas that are most needed and would make the largest impact to the developing world.

After a field survey and lengthy deliberations, the three organizations have shortlisted three challenges that need to be addressed:

- Reliable Electricity,
- Communication to rural hospitals and
- Patient Health Records.

The focus area during the initial phase of HTC will be to develop appropriate solutions for these three technology challenges.



## IEEE's HTN - Humanitarian Technology Network

IEEE's Humanitarian Technology Network (HTN) is a repository of IEEE members' humanitarian efforts. IEEE members have in their individual capacities or as a part of IEEE been delivering technology solutions to help civil society organizations.

HTN is deployed on the web as: <http://ieeethn.org>. Please visit the Wiki, login with your IEEE 'username' and 'password' and read the activities of fellow IEEE members. If you yourself have or know of any group that has contributed significantly to humanitarian efforts, please do write about it at the HTN.

## IEEE HTF - Humanitarian Technology Fund

Quoting the IEEE website "The IEEE Foundation has established a new fund which will provide unique opportunities for engineers to make a real difference in the developing areas of our world."

The Humanitarian Technology Fund was created to complement the HTC and the HTN by providing funding to needy projects in the area. This may not be high technology areas but simple solutions in providing Electricity, Clean Water and other basic amenities of life in parts of the world where the need is very high with low availability.

Please visit:

<http://www.ieee.org/organizations/foundation/2009news.html#1>

## R10 and Humanitarian Activities

Being the first year and due to the budget constraint caused by recession, the HTC in Region 10 planned to keep 2009 as the year for an awareness drive of the HTC. During this year, it was also proposed to create structures to enhance the impact of HTC in the Region.

The humanitarian activities of R10 started with the formation of a core group with members from all over the region in April 2009. The ten members of the core group were drawn from the volunteers and office bearers of the Sections and Region.

As a part of the publicity drive, in May, an e-Notice was sent out to all members, informing them of the formation of a group in R10 for humanitarian activities. The mail also requested for volunteers. The R10 was flooded with volunteer offers from its members.

The R10 HTC started a blog site for informing the members of the Humanitarian activities happening in the R10 - <http://ieeethc.net>.

The HTC coordinator of the region attended the HTC meeting in Washington on Solution Formulation. The meeting was a three-day event with participation from all the regions. The meeting decided to start the solution formulation process of the three challenges. The MGA's HTC group met and R10 has been asked to pilot the HTC solution creation and delivery process.

## "Save Energy-Save Earth" Awareness Programme

IEEE Sections have been taking their own initiative in promoting and giving publicity to the HTC. The New Delhi Section is promoting awareness under the leadership of the Delhi Section Executive Committee Member, Dr. Ravindra Joshi.

An awareness programme was held on 7th June 2009 in Rohini and some other parts of Delhi jointly by IEEE Delhi Section and the UNDP. The drive was successful and made an impact on target audiences. There are requests coming in from other residence societies and institutions of Delhi.

Delhi Tourism, GAIL, IIT Roorkee Alumni Association in addition to PGCIL and Wave Cinemas co-sponsored the event. The volunteers consisted of students of IITs, DCE, NSIT, DU, IP University etc. in addition to other professionals.



## Immediate Plans

- HTC Hour at the R10 Student Congress in Singapore 17<sup>th</sup> July, 2009.
- Participate in the "India Initiative's" HTC program at Bangalore 28th August, 2009.
- Create an infrastructure for mobilizing volunteers for HTC July – August 2009.

**Amarnath Raja**

**R10 Humanitarian Technology Challenge Coordinator**

## IEEE Humanitarian Technology Network

The Humanitarian Technology Network (HTN) is a voluntary repository of IEEE member humanitarian efforts. Any member can submit a description of humanitarian projects in which they have been, or are currently, involved.

Any visitor, IEEE member or not, can view any submission. The HTN provides the infrastructure and ability to classify content so that it is easily accessible to IEEE members as well as the interested public - Non-Governmental Organizations (NGOs), corporations, foundations, and others.

Visit: [www.ieeethn.org](http://www.ieeethn.org)



**IEEE**  
Celebrating 125 Years  
of Engineering the Future

## Humanitarian Technology Network

The Humanitarian Technology Network (HTN) is a voluntary repository of IEEE member humanitarian efforts

Visit: [www.ieeethn.org](http://www.ieeethn.org)

## Call for Nomination - 2009 Region 10 GOLD Award

This award is designed to recognize those substantive projects or achievement of a relatively short nature (one to three years) but which have left an undeniable imprint on the fabric of GOLD operations within Region 10. The award will be based on a selection that recognizes individuals involved with GOLD activities who are recognized for singular achievement in the development and completion of a project(s) or activity(ies) which are directed to the fulfillment of one or more of the Region's goals and/or objectives. The individuals nominated must be GOLD members at the time of nomination.

For the nomination forms, please contact Fanny Su, IEEE Asia Pacific Operations Centre at [ieeepo@pacific.net.sg](mailto:ieeepo@pacific.net.sg).

The nomination deadline is **31 August 2009** and all nominations forms should be received by Fanny Su by that date.

Should you need more information, please contact [taka.minami@jp.fujitsu.com](mailto:taka.minami@jp.fujitsu.com).

**Takatoshi Minami**  
**Chair, R10 Awards & Recognition Committee**

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### Larry K. Wilson Award 2009 Announcement

As you are all aware, the prestigious Larry K. Wilson award is given to the student who has significantly contributed to IEEE student activities in our Region, Section, Student Branch or Student Branch Chapter. The winner receives an Award Plaque and three years free IEEE membership. The award purpose is to recognize annually, in each Region of the IEEE, the student most responsible for *an extraordinary accomplishment* associated with IEEE student activities.

This year we received **9 nominations** and I am happy to announce the R10 Larry K. Wilson award for the year 2009.

Larry K. Wilson award 2009 Winner is **Ravender Lal** of the National University Of Computer and Emerging Sciences, Karachi, Pakistan for his outstanding contributions to the ongoing GINI Pakistan project, to the Student Branch, Section, and Region. **CONGRATULATIONS!**

The other eight nominees had good credentials and contributions to the IEEE cause; I thank all the nominees and nominators for their support and help.

A special word of thanks to the R10 SAC committee 2009 for the help in judging the contestants for the award.

**Mini S. Thomas**  
**R10 SAC**

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Please send your news items and articles to R10 Newsletter Editor by email:

[r10-ecn@ieee.org](mailto:r10-ecn@ieee.org)

Please send photographs in JPEG format in separate files

## Obituary



### DATO' IR DR MUHA PANDAK AHMAD (1960-2009)

Muha Pandak Ahmad, first IEEE Malaysia Section Chair, passed away peacefully in his sleep on March 6 2009 in the hospital. He was 49 and is survived by 6 children. Dr Muha became our first elected Chair and kept in office for 9 years, from 1988 to 97. This was at the time that there was no limit set for the terms of office

for an executive committee member. He established IEEE Malaysia Section with a small group of people from his UKM (Universiti Kebangsaan Malaysia or National University of Malaysia) base and gradually grew it to a respectable organization by the time he left office.

His contribution to IEEE Malaysia is immense. With his vision and drive he has expanded IEEE Malaysia from an unknown little society to what it is now, a respectable organisation with more than 1700 members. He motivated many professionals to join IEEE, especially from among the growing numbers of the academic community, and he later started a few Chapters, initiated conferences and many other technical activities which have turned into household names.

Despite his failing health, his fervor to serve the community knew no respite; he was the Chair of Global Networking Bureau, in a local Islamic-based business community; the President of his school alumni association, and of late the founding member of a newly formed Malaysian Science, Engineering and Technology Society (mSET), and duly became the Treasurer. Besides being a member of IEEE, he was also a corporate member of Institute of Engineers Malaysia (MIEM) with Professional Engineers qualification, which carries the title Ir for Ingenieur.

Such was his dedication that in April 2005 he was conferred Darjah Dato' Paduka Mahkota Perak (D.P.M.P) bringing the title of Dato' by the King of Perak, his home state. During his tenures as IEEE Chair, he even managed to get the King and his Regent to grace many of our IEEE Annual Dinner, which is a feat never repeated ever since.

Dr Muha obtained his B.Sc. in Electrical Engineering from University of Manchester Institute of Science and Technology (UMIST) UK in 1984 and then became a tutor in UKM upon returning home. He subsequently went on to further his studies and obtained his PhD in 1988 in Control Engineering from the same university and returned home to become a lecturer. He subsequently left in 1991 to form his own company offering services in M&E and also spent times in Esso and another local company.

Dr Muha passed away after lapsing into a coma due to complications arising from multiple failures, from the kidney to other internal infections.

His contribution to IEEE in general and Malaysia Section in particular is very much remembered and his demise is greatly mourned. His untimely departure is very much missed by the community.

To his bereaved family member, we would like to convey our heartfelt condolence on his demise. May God grant him a better life in the next world.

**Borhan, Fakulti Kejuruteraan, UPM, Selangor, Malaysia**

## R10 Sections News & Highlights

### IEEE Western Australia Section

#### IEEE 125th Anniversary Seminar by US Consul General, Dr Kenneth Chern

On the evening of 13th May, the IEEE Western Australia Section celebrated the IEEE 125th anniversary with the IEEE community and friends. A seminar hosted by the IEEE WA Section and the Communication Society, WA Chapter was held at Murdoch University with a seminar addressed by Dr Kenneth S. Chern, Consul General of the United States of America. The title of the talk was “*Science is Back: The Obama Administration’s New Science and Technology Priorities*”.

The event was well attended by the IEEE and academic communities from all disciplines. Lance Fung, Vice-Chair of the Section and organizer of the event opened the seminar with a welcome message and acknowledgement of the traditional landowner. He gave a brief history of IEEE followed by a presentation of the IEEE ONE VOICE video. Professor David Doepel, Director of the Research Institute on Resource Technology, Murdoch University, then introduced the speaker. Dr Chern gave an informative and inspiring talk about the new U.S. Administration’s priorities in science and technological innovation – broadband networks, health IT, science education, new clean energy sources, new generation manufacturing technologies - and how the USA and Australia can continue to deepen their scientific cooperation. The talk aroused much interest and excitement among the audience with questions and answers for over 20 minutes. Associate Professor Kevin Wong, Chairperson of the IEEE WA Section delivered the vote of thanks and a gift to Dr Chern on behalf of the WA Section. The evening concluded with refreshment and a time of networking, exchange of ideas and catching up with acquaintances. It was a great success for the WA Section in kindling awareness of IEEE among the local community.



From Left: A/Prof Lance Fung, Dr Kenneth Chern, US Consul General, Prof David Doepel, A/Prof Kevin Wong at the IEEE 125th Anniversary Seminar

#### Lance Fung Vice Chair IEEE WA Section

### Two WA IEEE Members won Professional Development Award

On 1st May, two members from the IEEE WA Section Committee were announced as winners of the 2008-2009 Perth Convention Bureau



Professional Development Scholarship Program at the Perth Town Hall. Associate Professor Adam Osseiran and Associate Professor Lance Fung won the Edith Cowan University and the Murdoch University Professional Development scholarships respectively. The scholarships are designed to assist the winners in their personal and professional development in their chosen field of endeavor. The scholarships recognize the dedication of Adam and Lance who have given outstanding services to their professional organisations in an honorary capacity.

Two scholarships were given to each of the five universities in WA and each Scholarship covers air travel as well as accommodation and registration expenses to a maximum of \$5,000. The scholarships are proudly funded by the Perth Convention Bureau, which is responsible for marketing Western Australia as a business events destination. Adam plans to attend and will propose to host the International Mixed-Signals, Sensors and Systems Test Workshop (IMS3TW) and the Asian Solid-State Circuits Conference (A-SSCC) in Perth. Lance plans to attend and will propose to host the Federation RoboWorld Congress and the International Conference on Social Robot (ICSR), and the IEEE Region 10 conference.



*Well Done, Adam and Lance!*

### IEEE Taipei Section

#### ICASSP 2009

The 34th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) was held at the Taipei International Convention Center in Taipei, Taiwan, 19<sup>th</sup> - 24<sup>th</sup> April 2009 and was hosted by Prof. Lin-shan Lee, who served as the General Chair. This is the second ICASSP held physically in Asia after the first one, ICASSP 1986 in Tokyo. The ICASSP meeting is the world’s largest and most comprehensive technical conference focused on signal processing and its applications. The conference featured world-class speakers and exhibits.

The conventional technical program of ICASSP 2009 includes a total of 144 lecture and poster sessions. Two additional Show & Tell sessions including demos featuring latest results of signal processing systems were also organized. The program also included a very high-quality tutorial program of 17 tutorials covering a wide range of balanced topics and a total of 12 special sessions and 4 panels. The 12 special sessions covered a wide range of topics. The number of attendees reached 1,829 (including 1,700 IEEE members and 129 guests). In this year, the conference accepted 1,225 papers after receiving 2,705 paper submissions from around the

world. This remarkable conference offered a good opportunity for researchers and developers to get greater insight to the related technical advances and innovative solutions. At the same time, the ICASSP conference is a great success in providing a veritable meeting of creative ideas for all the participants.

During the ICASSP meeting, IEEE Taipei Section occupied a stand to recruit new members and provide IEEE member services. The non-member participants were able to obtain helpful information about IEEE membership, and at the same time they could join IEEE on site. Consequently, it contributed a significant result of recruitment. Definitely, IEEE Taipei Section will continue devoting to enhancing the relationships among all Chapters and members.



## NASNIT 2009 at NCTU, Taiwan

The 14th North-East Asia Symposium on Nano, Information Technology and Reliability (NASNIT 2009) provided scientists and researchers from Asia with opportunity to present and discuss their research. It was held on 15th May at International Conference Room, National Chiao Tung University, Taiwan. The goal of the symposium is to promote a mutual understanding and expansion of new knowledge in NT, IT & Reliability and to provide a dynamic forum for relevant information exchanges in Asia.

NASNIT 2009 was organized by IEEE Taipei Section and co-organized by IEEE Seoul Section and IEEE Tainan Section. The conference was hosted by IEEE Taipei Section Chair, Prof. Chin-Teng Lin. IEEE Seoul Section Chair, Prof. KD Kwack and IEEE Tainan Section Chair, Prof. Jhing-Fa Wang served as the Co-Chairs. A total of 60 papers were accepted, including Taiwan (9), Korea (29), Japan (1), India (8), China (6), Ukraine (6) and USA (1). All the accepted papers were collected in a symposium proceeding. There were two conference rooms reserved, one for electronics area and the other for computer research area. There were 20 papers in oral presentation with each presentation of 10 minutes. In the symposium, 20 papers were arranged to be displayed in the poster sessions.

The number of attendees reached 60, including 11 professors and 49 students, who came from Korea, Japan and Taiwan. At the same time, we invited Dean/Prof. Han-Ping D. Shieh (IEEE Fellow) to give a talk at the opening ceremony. NASNIT 2009 was a good opportunity for outstanding graduate students in Asia to discuss their work in the advanced research area. Not only the IEEE Sections but also the young researchers got ample opportunities for collaboration through this symposium.

Associate Professor of School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore, gave two short courses in Taiwan. The short course was entitled "*CMOS RF Technology and Integrated Circuit Design: Can It Keep Pace With Moore's Law?*".

The short course was first held at National Cheng-Kung University (NCKU), Tainan on 15th Jan, 2009. Prof. S.-J. Chang hosted this event. The total number of the attendees were 64 including 12 IEEE members and 52 graduate students. Some of the graduate students were IEEE student members. Through the session, Prof. Chang and Prof. Yeo achieved the



common goal for the cooperation of academia and research between two countries.

The same short course was given at National Chiao Tung University (NCTU), Hsinchu on 16th Jan, 2009. Prof. Hao-Chiao Hong was the host. The total number of the attendees was 33 including 2 IEEE members and 31 graduate students. All attendees expressed that they have learned a lot from the excellent short course.



### 2009 Spring Workshop on Information Theory & Communications (ITCOM-Spring 2009)

2009 Spring Workshop on Information Theory & Communications (ITCOM-Spring 2009) was held from February 4 to 5, 2009, at the Engineering Building of National Dong Hwa University (NDHU) in the beautiful city of Hualien, located on the east coast of Taiwan. ITCOM-Spring 2009 was hosted by the Dept. of Electrical Engineering of NDHU and co-sponsored by the Engineering and Technology Promotion Center of National Science Council (NSC), Communications Engineering Program of NSC, IEEE Taipei Section, IEEE Information Theory Society (ITSoc) Taipei Chapter, IEEE Communications Society (ComSoc) Taipei Chapter, IEEE Tainan Section, IEEE ComSoc Tainan Chapter, and Ting-Shiun Telecommunication Development and Education Foundation. More than one hundred and sixty people from academia and industry attended the workshop. The technical program included eight invited talks on the latest research results and future developments in the fields of information theory and communications. In addition, Prof. Chin-Liang Wang of National Tsing Hua University (NTHU) (Chair of Communications Engineering Program of NSC), Prof. Chi-chao Chao of NTHU (Chair of IEEE ComSoc Taipei Chapter), Prof. Li-Chun Wang of National Chiao Tung University (Chair of IEEE ITSoc Taipei Chapter), and Prof. Chi-Sung Lai of National Cheng Kung University (Chair of IEEE ComSoc Tainan Chapter) co-hosted a panel discussion on the current status/activities and future perspectives of the NSC program and the three IEEE Chapters. Moreover, there was a poster exhibition of 51 NSC projects. The workshop banquet was held in the Taste Restaurant of the Dong Hwa Guest House on the evening of February 4. Bus excursions to local sights were also arranged for the companions of the participants.

ITCOM is held semiannually and has been considered as one of the most influential and successful events in communications/information theory-related areas in Taiwan. Under a relaxed atmosphere in a beautiful surrounding, all participants of ITCOM-Spring 2009 benefited a lot not only

from the outstanding invited talks and in-depth panel discussions but also from active technical/social interactions.

### Newly Established Chapter & Student Branch

One new Chapter, Taipei Section (Taichung) Systems, Man, & Cybernetics Society Chapter, and one new Student Branch at the National Tsing Hua University, were established respectively. SMC Society Taichung Chapter was founded on 3rd March 2009, and led by Chapter Chair, Prof. Ching-Chih Tsai who expects not only to provide more services and more activities for the IEEE SMCS members in big Taichung area, but also to have closer colleague relationships among them. The new Student Branch is organized by Prof. Po-Tai Cheng and students who are elites in the field of engineering from National Tsing Hua University. In the near future, these students graduated from National Tsing Hua University will have more capability to compete in high technology industry.

**Prof. Chin-Teng Lin**  
Chair, Taipei Section 2009

### IEEE Tainan Section

During ISCAS 2009 which was hosted by IEEE Tainan Section and IEEE Taipei Section, we cooperated with Myrobot Inc. to hold a tutorial at which elementary and junior high school students were taught how to fabricate the "Robot John". We also invited Dr. Johnsee Lee, the President of Industrial Technology Research Institute, to give us a keynote speech entitled "Technology Innovations: What's Next after the Storm". The speech depicted how the future technology trends will be affected by consumers' behaviour after the economic storm and what will be the necessary technology innovations in the future.



Besides, we also co-sponsored the 14th North-East Asia Symposium on Nano, Information Technology and Reliability (NASNIT 2009), which provided opportunities to scientists and researchers to present and discuss their research investigations. The goal of the symposium is to promote the interflow and expansion of new knowledge in NT, IT &

Reliability. It provides an environment for relevant information exchanges in Asia. NASNIT 2009 is organized by IEEE Taipei Section, co-organized by IEEE Seoul Section and IEEE Tainan Section. It was a great occasion for many outstanding Asian graduate students to get together to discuss and share the most advanced research works. By the way, this conference can also be seemed as a stepping stone toward collaboration between young researchers and industries.

**Prof. Jhing-Fa Wang, IEEE Fellow  
Chair, IEEE Tainan Section**

## IEEE Madras Section

### R10 GINI Madras Section Hub Leaders Meet

The CIET IEEE Student Branch is recognized as Hub centre for Coimbatore Hub by the R10 Global Integrated Network for IEEE members (GINI) for IEEE Madras Section. The second meeting of Hub leaders of IEEE Madras Section was held on 18 April 2009 at Coimbatore Institute of Engineering and Information Technology, Coimbatore. Dr. Mini S. Thomas, R10 SAC, was the chief guest to supervise the activities and to encourage the student volunteers.

The meeting began with invocation. Dr. N. Nagarajan, Principal, Coimbatore Institute of Engineering and Information Technology welcomed the gathering. Prof. K. Arumugam, Advisor, CIET inaugurated the meeting. In his inaugural address he pointed out the tradition of IEEE and the importance of IEEE in helping the public in social and technical needs. Dr. P. Suresh Chander Pal, SAC Chair briefed about the purpose of the meeting and about 125th anniversary celebration of IEEE. He invited Hub leaders to present the activities of their Hub centres.

Dr. Mini S Thomas in her special address, told about the evolution of GINI and the short & long term GINI goals and planned activities. She also discussed the activities of other pilot Sections like New Zealand, Pakistan, Hyderabad and Delhi. She interacted with the Hub leaders for the activities and gave solutions for the problems faced by the Hub leaders in promoting the dormant IEEE Student Branches under their hub. The plan of activities for the next 6 - 8 months were discussed and finalized.



Finally, the vote of thanks was proposed by Prof. S. Elangovan, IEEE Student Branch counsellor, CIET IEEE Student Branch.

**Mini Thomas  
R10 SAC**

## Madras WIE Organizes Special Session on Women in Bioengineering at the International Conference on Bio-medical Informatics & Signal Processing (ICBMSP'09)

Madras IEEE Women in Engineering organized a special session on Women in Bio Engineering on 14th March 2009 during the 2nd International Conference on Bio medical informatics & Signal processing (ICBMSP'09) organized by The Centre for Biomedical Informatics & Signal Processing of Bio-Medical Engineering Department of SSN College of Engineering, Chennai in association with Sai Bio Science Research Institute (SBRI) and University of Medicine and Dentistry of New Jersey (UMDNJ), USA at the auditorium of SSN Campus. Dr Dinesh Mital and Dr N. Sriraam, Program Chairs, ICBMSP'09 chaired the session. In his welcome address, Dr Sriraam elaborated the importance of this special session.

Dr Parvathi Gopal, Director, Indian Aerospace Medicine Institute, Bangalore delivered the keynote address on 'Interfacing Women with Aviation Advancement'.

N. Raghunath, Senior Research Specialist at Emory University, Center for Systems Imaging, Georgia Tech, Atlanta USA gave a technical talk on "PET imaging: Retrospect and Prospect". During her speech, she highlighted the challenging roles for the women community in the biomedical field. She also addressed the possible opportunities for doing higher studies at abroad and corresponding job opportunities for the women.

Ms. D. Malathi, Director, Sai's Biosciences Research Institute Pvt Ltd, delivered a speech on the importance of bioinformatics field and potential applications for the women community in terms of job market.

Finally the Best Woman in Bio Engineering Award was presented. It was instituted by Madras IEEE WIE to encourage women bioengineers. 12 applications were received, and scrutinised by a committee comprising of the Conference Secretariat, Madras WIE Committee and HOD, Biomedical Engineering, SSN College of Engineering. The committee recommended Dr Parvathi Gopal for her contribution to the Aviation Medicine and Bio engineering field.



Parvathi Gopal receiving the Best Women in Engineering 2008 Award from Dr Dinesh Mital.

## SANGAMAM - Appropriate Technology Transfer to Rural Areas

With the support of R10 the IEEE WIE Madras Section launched the project "Sangamam" in 2008 with utmost confidence in the ability of women to bring about a much needed revolution. "Sangamam" means bringing together - here to bring together the technical knowledge from the

learned and the human and natural resources of rural areas for useful application of this knowledge.

The primary activities and programs of Sangamam project include the following:

1. Channelizing the youth energy – Yuva Shakthi
2. Imparting technical training to Women – Knowledge to Women
3. Utilisation of natural resources – Women and Eco-development
4. Making the village self sufficient – Full Hands and Full Hearts

Some of the programs organized by the various Student Branches in Region 10 under Knowledge to Women are:

#### **Program: Knowledge to Women**

The Madras IEEE Women in Engineering and the WIE Affinity Group of IEEE Student Branch at CIET, Coimbatore organized a five day computer training program for rural girls' school students under SANGAMAM Project from 27th to 31st December 2008. The students had not even seen a real computer in their life before.

The computer training covered the computer basics, namely MS-Word, MS-Excel, MS-Power point etc. The Office bearers of WIE affinity group, CIET IEEE Student Branch gave the training to the school students in their own language of study.

At the end of five days training, feedback was collected and the students assured that they will start teaching their juniors the same courses. With this in mind, the Government of Tamilnadu has given 10 computers to the school. The novelty of the program is that all the students were given the printed course material for the training in Tamil language.



#### **Program: Knowledge to Women – Career Guidance**

A career guidance program was organized by the IEEE Student Branch of Sri Muthukumaran Institute of Technology, Chikkarayapuram (Near Mangadu), Chennai on 2nd March, 2009 for the students of class 11 from Padma Subramaniyam Bala Bhavan Matriculation Higher Secondary School, Mangadu. A total of 50 students attended this program. They were given a brief introduction about engineering with a presentation showing them about the various fields in engineering. Also they were explained about what they can study under various branches. The students were then divided into groups and taken around the college premises.

Some more programs are planned, like Rural Youth Development Program where the local dropouts from school are given training in servicing of electrical equipments, wiring, coil winding etc. This is to make them employable and reduce the possibility of development of antisocial elements. This

also increases the social responsibility of the Engineering students.



**Ramalatha Marimuthu**  
**R10 WIE Coordinator**

#### **IEEE Hyderabad Section**

##### **News Highlights**

IEEE Hyderabad Section completed 25 years of existence on 14th May 2009. Celebrations will be held along with the Special Annual General Body Meeting to be conducted shortly. Some other recent activities are:

- PES Chapter Outstanding Engineer Award for the year 2009 was received on 18th March 2009 for the excellent leadership of the Hyderabad PES/IAS Joint Chapter by Dr. S. R. Doradla and committed efforts towards improving the quality of Electrical Engineering education by the IEEE PES/IAS Hyderabad Chapter IEEE Power and Energy Society.
- Power Electronics Society has been added to the existing PES/IAS Joint Society Chapter of IEEE Hyderabad Section. The new chapter is called PES/IAS/PELS Joint Chapter. The current PES/IAS Chapter Chairman/Vice-Chairman/Secretary will continue as the chair of the new PES/IAS/PELS Societies Joint Chapter.
- The Institute of Electrical and Electronics Engineers, MJCET Student Branch organized its 7th IEEE Annual Day Ceremony on 20th March 2009.
- Dadi Institute of Engineering and Technology, Anakapalli launched its IEEE Signal Processing Society Student Branch Chapter on 14th March 2009.



- Vardhaman College of Engineering, Shamshabad formed its IEEE Student Branch on the 14th of January 2009.
- IEEE Student Branch of National Institute of Technology, Warangal (NITW) in association with the PES/IAS Joint Chapter of IEEE Hyderabad Section, organized its first major event for the year 2009 with the 2nd Edison Memorial lecture on the 11th of February 2009.
- RRS College of Engineering and Technology inaugurated its Student Chapter on 14th May

**PES/IAC Joint Chapter**

The PES/IAS Joint Chapter (Hyderabad) and the National Thermal Power Corporation (Secunderabad) jointly organized a half-day lecture on EHV Circuit Breakers by Mr. G. R. PATEL from ABB Ltd., Vadodara at NTPC Conference Hall on the 4th of April 2009.

The following topics were covered in the lecture:

- New developments in the circuit breaker technologies.
- Introduction to High voltage circuit breakers.
- Circuit Breakers and environmental conditions.
- General application – difference between line circuit breaker and other circuit breakers. Circuit breaker as a part of the network.
- Special requirements from the circuit breaker. Special applications. Controlled switching.



Mr. V. Akilan, Chair of PES/IAS/PELS Joint Chapter Hyderabad Section welcoming the gathering



Prof. Ramamoorthy (on the Left) handing over the memento to Mr. G.R. Patel while Mr. V. Akilan in the middle is looking on.

**MTT/AP/EMC Joint Chapter**

MTT/AP/EMC Joint Chapter conducted an industrial visit to M/S Astra Microwave Products Limited (AMPL) on 24th

April with faculty members of M.Tech Microwave course of TRR College of Engineering. Each stage of the microwave circuit fabrication facility was explained by the experts working in the field. Five IEEE members and twelve others were present during the visit.



Mrs. Madhumita (right) and other delegates inside the Clean Room at M/S Astra Microwave Products Limited

**Inauguration of Student's Branch of RRS College of Engineering and Technology**

RRS College of Engineering and Technology inaugurated its Student's Branch (IEEE RRSCET Student Chapter) on 14th May 2009. The chief guest of the inaugural function was Dr. N. V. Rao, Chairman of IEEE Hyderabad Section. The event was also graced by Mr. P. Ravi Babu (Executive Member of IEEE RRSCET Student Chapter), Dr. T. Anil Kumar (Student Counselor of IEEE RRSCET Student Chapter), Dr. M. Prabhakar (Director of RRSCET and President of IEEE RRSCET Student Chapter) and Mr. Vikas (Student Chair of IEEE RRSCET Student Chapter).



Inauguration of IEEE RRSCET Student Chapter: (From Left or Right) Mr. P. Ravi Babu, Dr. T. Anil Kumar, Dr. N. V. Rao, Dr. M. Prabhakar and Mr. Vikas.

**Maruthi Rao  
Secretary, IEEE Hyderabad Section**

myIEEE, the personalized web portal for IEEE members, has been redesigned with new features. myIEEE 1.7 now incorporates streamlined alerts, member spotlights, who's online, access to Scitopia and ieeee.tv gadgets across the web site. Members can [log in](http://www.ieee.org/myIEEE).  
<http://www.ieee.org/myIEEE>

## IEEE Kansai Section

### 2009 IEEE Kansai Section Annual Meeting

2009 IEEE Kansai Section Annual Meeting was held at Kyodai Kaikan in Kyoto on February 24, 2009. In this meeting, the 2008 activity report and plans for 2009 were presented by Section Chair, Chairs of 6 standing committees and Chairs of 10 Chapters. We have been encouraging the establishment of new Chapters in the Kansai Section. Six Chapters have been established in the past several years and now we have 10 Chapters in total.

After approval of the 2008 financial report and 2009 budget, the dedication ceremony for the following awards was celebrated.

#### 1) IEEE Kansai Section GOLD Award

The IEEE Kansai Section GOLD Award was established in 2001. This award is for students or younger members who have contributed to IEEE Kansai Section's activities. The 2008 Kansai Section GOLD Awards were given to Mr. Yuichiro Ikeda (University of Hyogo) and Mr. Yoshihisa Fujimoto (SHARP Corporation).



#### 2) IEEE Kansai Section Student Paper Award

The Kansai Section Student Paper Award was established in 2004 with the aim of encouraging research by young student members who will lead the next generation. The student members, who had presented excellent English papers in IEEE international conferences and IEEE Transactions, were granted the Kansai Section Student Paper Award. We selected 12 winners of this award for the year of 2008 and presented the citations and prizes to them.

Each of five Student Branches of the Universities affiliated to Kansai Section endeavours to pervading merits of the IEEE membership, through holding an English Presentation Competition for the IEEE student members. Moreover, a conversation exchange between the five Student Branches is

held annually, and further horizontal cooperation beyond the University framework in order to build up the IEEE student membership or to support for the student activities. These activities are promoting the student members of the IEEE Kansai Section to upgrade and renew their IEEE membership after their graduation.



IEEE Kansai Section Student Paper Award

We also conducted the dedication ceremony for the IEEE Kansai Section Medals which are presented to new Senior Members. We have given the Medals to 4 New Senior

Members in 2008. This Medal was established for prompting members to apply to Senior Member grade which is considered to be the core of IEEE activity. The medal is designed with the portrait of Gennai Hiraga who constructed the first friction generator, Elekiter, in Japan and was produced using special technologies such as a latent image by Japan Mint.



IEEE Kansai Section Medal  
(Inset; reverse side)

Two members in the Kansai Section, Dr. Michio Kadota (Murata Co. Ltd) and Prof. Shinichi Tamura (Osaka University) were promoted to the IEEE Fellow in 2009. In the latter part of this meeting, we celebrated their promotions. Dr. Michio Kadota and Prof. Shinichi Tamura gave the commemorative speech on their works.



New IEEE Fellows

**Yukihiro Nakamura, Chair of Kansai Section**

## IEEE Harbin Section

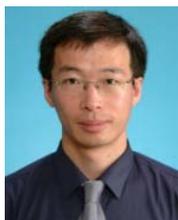
### Two New Chapters formed in Harbin Section

Two new Chapters have been formed in Harbin Section in 2009. The new Chapters are MTT/AP/EMC Joint Society Chapter and Education Society Chapter.

The Chair of MTT/AP/EMC Joint Chapter is Professor Wu Qun, of Harbin Institute of Technology, China. In this Joint Chapter, there are three Vice Chairs representing the three societies. The three Vice Chairs are (1) for EMC Society, Associate Professor Tao Jiang of Harbin Engineering University (2) for MTT Society, Associate Professor Song Zhaohui, of Harbin Institute of Technology, and (3) for AP Society, Meng Fanyi, Lecturer at the Harbin Institute of Technology, China.



Prof. Wu Qun



Tao Jiang



Song Zhaohui



Meng Fanyi

The MTT/AP/EMC Joint Chapter has already organized an EMC measurement instrumentation exhibition in Harbin Science Park of HIT.

For the Education Society Chapter, the first turn Chapter Chair is Prof. Wu Qun and the Vice Chair is Professor Zhou Bin, of Harbin Institute of Technology, China. In addition, some officers like secretary and treasurer are also appointed.



Prof. Zhou Bin

Harbin Section will host an inauguration ceremony towards the end of September for the two newly formed Chapters together with the 125 anniversary celebration activities which will include IEEE knowledge quiz competition, technical workshops and forums relevant to MTT/AP/EMC topics.

In order to spread awareness about the IEEE, the Vice Chair of Harbin Section has given several lectures on how to be an IEEE member and how to be a student member.

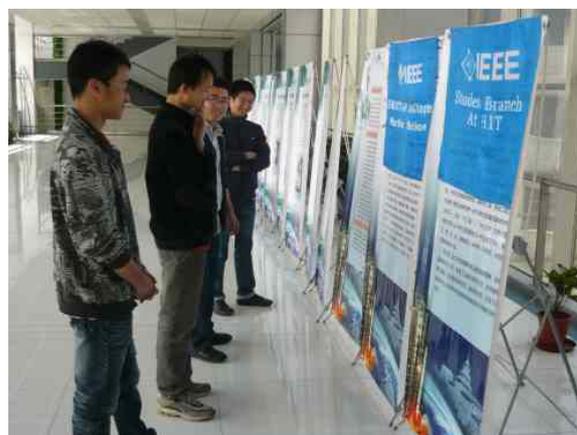


The Harbin Section organized a ski activity in resort area of Harbin "Harbin's window of European-Asian" and held picnic for all members including student members.



**Harbin Students Branch Activity:** Harbin Institute of Technology (HIT) Student Branch has held several activities in 2009. First, the SB voted new leaders. Voting was supervised by 4 on-site reviewers who were also judges for volunteers' statements at an oral defense meeting.

The Student Branch recruited new members by holding a written exam on basic IEEE knowledge and two interviews to expand and strengthen its influence. After the recruitment, an excellent session of lectures by Professor Wu Qun and some outstanding student members was held in a lecture room, which can accommodate up to 400 students. The subject matter of the lecture was to let more and more people understand and join the Student Branch. A month later, another lecture about "the study life abroad" was given by some of the old students of HIT who are now studying abroad for PhD programs. A lot of students who want to get further education attended the lectures and learned valuable lessons.



**Professor Wu Qun**  
Chair, IEEE Harbin Section, China

## IEEE R10 Student Branches News and Highlights

### IEEE Student Branch at Tokyo Institute of Technology

The IEEE Student Branch at Tokyo Institute of Technology has organized many activities this academic year. New officers were elected in October 2008 and participated in the IEEE Japan Council Student Branch Leadership Training Workshop with officers from 19 other Japanese universities on October 4th 2008 at Keio University. Through this one-day event, our team learnt a lot about IEEE and the administration of a Student Branch. Furthermore, this workshop was a very good platform for us to interact and network with the other Student Branches on IEEE Student Branch matters. All students also discussed freely through the group discussion and exchanged opinions on research and academic issues. Besides that, we were thrilled by the presentation on the previous IEEE Region 10 Student Congress in India. Our newly elected committee enjoyed very much this first opportunity to jumpstart our activities.



New committee at the IEEE Japan Council Student Branch Leadership workshop.

One of the IEEE Tokyo Tech Student Branch traditions is the yearly Student Paper Contest (SPC). It is an event organized to encourage both undergraduate and graduate IEEE student members to publish their research work. In addition, it provides a platform to foster international scientific communication among Japanese students who want to improve their technical writing skills in English and for all students who also want to get constructive feedback on their papers through this competition. A total of 18 technical papers were received and reviewed by several faculty members and the prize giving ceremony was held in January. Certificates and prize money of 15000 Japanese Yen (1st Prize), 10000 Japanese Yen (2nd Prize) and 5000 Japanese Yen (3rd Prize) were awarded to the top three winners and the other participants each received a 1000 Japanese Yen book voucher as a reward for their enthusiastic participation. This year, the winners are:

- 1st Prize Winner: Mr. Patanukhom KARN  
Paper Title: *Restoration of Degraded Imaged Caused by Linear Motion Blurred Objects in Still Background*
- 2nd Prize Winner: Mr. Benjamin Pruvost  
Paper Title: *Suspended-Gate Single-Electron Transistor: Low Voltage, High-Speed Operation and Proposal of New Architectures Insensitive to Background Charges*
- 3rd Prize Winner: Mr. Tuan Minh Vo

Paper Title: *Asynchronous Differential Capacitive-to-Digital Converter for Capacitive Sensors*

In conjunction with the SPC contest 2008, a special lecture by Prof. Adarsh Sandhu on “The Art of Technical English Writing” was organized for a broad audience of students who have a keen desire to learn the fundamentals of technical writing. Not only have they learned why publications are important for scientists, but they became knowledgeable of the key features and structures of good publications.

Recognizing the needs of Tokyo Tech students, we also invited guest lecturers to give talks that are thought to broaden the student’s perspective and to increase their professional awareness. Last July, we were privileged to have Prof. Rob Reilly, the Chair of the IEEE Education Society's Chapters, as a guest speaker. He gave an inspiring talk titled: “Thinking Outside the Box We Exist In: You Can Win a Nobel Prize”, which certainly gave us insights on how greatness can be achieved in science and technology through creative thinking. Besides, a lecture by Mr. Rainer Jeske, president of CONNECTYOU.K on “How to get the job you want” was also offered to the students in our campus. The talk was aimed at helping students to understand more about job hunting and hunting for the right job, thus helping them to choose the right career path.



Talk by Mr. Rainer Jeske on "How to get the job you want" (2008/11/14)

Prof. Jonathan Coopersmith, a visiting Fulbright scientist at Tokyo Tech from Texas A&M University, also gave a lecture on “The History of the Fax Machine”, which was held this May. After the end of this captivating lecture, the audience was delightfully surprised by the Japan-Texas-flag collar-pin souvenir handed out by Prof. Jonathan Coopersmith.



Talk by Prof. Jonathan Coopersmith on "The Rise and Fall of the Fax Machine" (2009/05/01)

It is always very enjoyable for IEEE Tokyo Tech Student Branch to welcome guest lecturers and peers from abroad. On May 2008, we hosted the visit for about 25 students and a few faculty members from Hong Kong University of Science and

Technology. We intend to invite more guests in the future to make our Student Branch more global and to allow our student members to network with their international peers. Future events will be soon posted on our recently renovated webpage (<http://www.ewh.ieee.org/sb/tokyoit/>).

Last December, IEEE Tokyo Tech Student Branch co-organized the 5th IEEE Tokyo Young Researcher Workshop with other co-organizers such as the IEICE Tokyo Tech Student Branch. This workshop, held yearly at Tokyo Tech is one of the biggest events of our Branch and it aims to offer opportunity for young researchers, graduate as well as undergraduate students, to present their work through poster presentation. Every year, young researchers from many domestic and overseas universities attend this workshop and many companies are invited to see the excellent research performed by the students. The best presentation award was awarded a 100000 Japanese Yen prize which was a high incentive enough for more than 100 students to present their work at the workshop. Interestingly, the 2008 workshop's theme was: "How much is your research?", a theme that was chosen in order to let students reconsider their academic research not only in terms of scientific achievements but also in terms of applications and economic values.

Our Student Branch committee is looking forward to organize more activities in the near future like factory study tours or personal development workshops for our community. We are very grateful to our counselor, Prof. Akinori Nishihara, who is always very supportive in each activity we conduct. Indeed, he makes our service much easier and more enjoyable. Also, we would like also take this opportunity to give our sincere thanks to everyone who gave us their generous support to organize these activities, especially to IEEE Tokyo Section for their financial support. Finally, we are also looking forward to meet the other Student Branches from Region 10 at the next Regional Congress in Singapore to celebrate the 125th anniversary of innovation and ingenuity of our great association!

Branch Chairperson: Viktor Serdio  
Vice Chairperson: Nadia Tan  
Secretary: Rindranirina Ramamonjison  
Treasurer: She Yuanfeng  
Student Branch Counselor: Prof. Akinori Nishihara  
Branch Mentor: Dr. Akiko Nakashima

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### IEEE Student Branch at The University of Adelaide EEESAU Activities Semester 1, 2009

The first half of 2009 has seen a flurry of activity from the Electrical and Electronic Engineering Society of Adelaide University (EEESAU), the Student Branch of IEEE at the University of Adelaide. A wide cross section of events have been coordinated by EEESAU to thrust the ideals of electrical and electronic engineering to the fore of the university community, and have included educational, social and student enhancement events.

The beginning of May heralded the largest event on EEESAU's annual calendar: the School of EEE Research Expo 2009. The Expo has become an annual event, with this year's being the fourth consecutive Expo. During its lifespan, the Expo has grown to become a highly successful venture, and one that is received well both by student and university staff contingents. The purpose of the Expo is to showcase the various research activities of the School of EEE to potential

postgraduate students, as well as serving as an opportunity for networking between current staff and postgraduate students.



The one-day event is set up in the fashion of a conference, where the proceedings allow all the key researchers in the school the chance to highlight their research capabilities. A well received poster session and plenty of opportunities for networking are also key features of the day. The 2009 event saw healthy registrations of over 70 people in attendance. A keynote speech from newly appointed Prof Lincoln Wood, discussing his experiences working in both industrial and academic positions, was very well received and set a high standard for the remainder of the day's proceedings. With main sessions focussing on the two themes of Sustainability and Sensing and Processing, speakers held the sizable audience captive, while some of the very latest research was being discussed. A large portion of time was devoted to discussing the future, with all speakers keen to share their ideas for future research in their respective fields. The poster session, which included a competition judging the categories of ease of understanding and presentation, was also a highlight of the day, with the predominantly postgraduate student authors happy to discuss their research to the interested parties.

Finally, the event concluded with a cocktail drinks function, where all attendees were given the opportunity to rub shoulders with key industry personnel, head researchers, and plenty of postgraduate students. The day couldn't have happened without the support of the generous sponsors, Avalon Systems, BAE Systems, Origin Energy, IEEE-SA Section, NewSpec and the Faculty of Engineering, Computer and Mathematical Sciences, and obviously the help of the dedicated EEESAU Expo committee.



As well as the Expo, EEESAU has also hosted a range of other events for the benefit of its membership, the students at the University, and the electrical and electronic engineering community as a whole. After hosting a successful recruitment

drive for memberships during the university's orientation week at the start of the academic year, EEESAU was responsible for the sale and distribution of course lecture notes for all the EEE students. The sale allowed students easy access to printed copies of relevant notes, and thus helping them settle easily into the new academic year ahead.

Hot on the heels of the notes sale came another event to help enhance the student learning experience. A Seminar Presentation Skills workshop was held for the second consecutive year, and while the workshop does have a specialised attendance focus, it was enthusiastically received. The student attendees were exposed to a range of information designed to assist them gain skills in the highly important area of seminar presentation, gaining attributes that will assist them during their studies and future careers.

Finally, an enjoyable social event was hosted by EEESAU to give its members the opportunity to mix and mingle in a relaxed environment. The first of the biannual Pizza Parties recently took place, much to the delight of all who attended. With a plethora of hot pizza and plenty of drinks to share, the Pizza Party rounded out EEESAU's planned events for first semester nicely.



A host of other events are also planned in the pipeline, including another course notes sale and Pizza Party for the second academic semester, as well as an introductory course for members to learn the joys of LaTeX. EEESAU is also very excited to be sending its Chair Luke Balzan, to the upcoming Student Congress in Singapore, thanks to the sponsorship of the IEEE-SA Section, and this opportunity will no doubt provide an abundance of ideas and enthusiasm within the EEESAU ranks for quite some time to come.

**Luke Balzan**  
**Chair, Electrical and Electronic Engineering Society of Adelaide University (EEESAU), Australia**

### MUET-IEEE Student Branch, Pakistan

#### Activities Report

The MUET-IEEE Student's Branch at the Mehran University of Engineering & Technology (MUET) has compiled its team consisting of following dedicated and hardworking students:

President	Ravi Kumar
Vice President	Shamsuddin Soomro
General Secretary	Noman Nawaz Palijo
Treasurer	Balach Hussain

The Counselor, Mentor and Faculty Coordinators for the Student Branch are:

Counselor	Prof. Dr Bhawani Shankar Chowdhry
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Mentor	Engr Irfan Ahmed Halepoto
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Faculty Coordinators :	Nasarullah Pirzada
	Syed Amjad Ali Shah
	Mahesh Kumar Rathi
	Mehboob Khowaja
	Amirita Dewani
	Sanam Narejo

### Seminar on Telecom Network Engineering

On 18th February 2009, a seminar was arranged on the topic of "Telecom Network Engineering" and delivered by Engineer Jawed Manzoor who received his BE degree from MUET in 1981 and has earned experience in different organizations. The event was held at Electronics Engineering and Telecommunication Engineering departments to guide the final year students.

The program highlighted the problems for fresh engineers and explained what makes a difference between a professional and young engineer. Engr. Jawed Manzoor also highlighted his experience and focused on the primary skills like spoken English and computer operation.



From Right: Dr. Bhawani Shankar Chowdhry Chairman Department of Electronics Engineering & Branch Counselor of MUET IEEE Student Chapter, Special Guest Engr. Jawed Manzoor, Dr. A. K. Baloch, Dean FEECE MUET.

### A Visit to Sir Syed University for Project Exhibition

On Thursday, 19th February 2009 a project exhibition was held at Sir Syed University of Engineering & Technology (SSUET) for final year projects in the Electronics, Electrical and Computer Engineering from the platform of MUET-IEEE Student's Chapter. The aim of this activity was to make students aware of the options in these fields. The feedback from students was excellent, and it is hoped that the interaction between the students of both universities would continue.

### One Day Seminar on Telecom as a carrier

On 7th March Engineer Sunny Kumar Gemnani gave a presentation. He graduated from Telecommunication Engineering Department, MUET, Jamshoro and is currently working as an RF Engineer in Telenor, Pakistan. The speaker highlighted the importance of thesis/project for an engineering student. He also presented the examples related to the current world of Telecommunication. The session was interactive as the speaker engaged the students in the discussion & asked their views & planning about the thesis/project and focused on "Telecom as a career".

## Certificate Training course on FPGA

A 3-day Certificate Training course on FPGA (Field Programmable Gate Array's) was arranged by Mehran University of Engineering & Technology in collaboration with MUET-IEEE Student Branch from 13th to 15th March 2009. The presenters were Engr. Nishat Ahmed Khan (Manager, Technical - AERO) and Engr. Ashraf Niazi (Manager, Embedded System). The goal of the training course was to familiarize FPGA technology to the third and final year students, so that they could design their final year project in an efficient way.



Engr. Nishat while presenting the FPGA training course



Prof. Quintin Gee delivering his presentation.

**Noman Nawaz Palijo**  
**General Secretary, IEEE MUET Student Branch**

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**IEEE Student Branch Thangal Kunju Musaliar Institute of Technology, Kollam, India**

### History of IEEE Student Branch TKMIT

The IEEE Student Branch of TKM Institute of Technology was established in January 2005, by Mr. Sanoj Vishwasom & Mr. Mohammad Sali. Since then it has shown a great mark of steady growth and prosperity. The names of Student Branch Counsellors, Student Branch Chairs & General Secretary for the various years are furnished below.

Year	Counsellors
2005	Prof. Sanoj Vishwasom
2006	Prof. Sanoj Vishwasom
2007	Prof. Sanoj Vishwasom
2008	Mrs. Sunitha Beevi K
2009	Mr. Sarath Raj
2005	Mohammad Sali (Chair) and Namith Najeeb (General Secretary)
2006	Namith Najeeb (Chair) and Javed Farzan (General Secretary)
2007	x Faiz A. Alenchery (Chair) and Steve Watson (General Secretary)
2008	Mr. Leo K Yohan (Chair) and Abhijith V. R (General Secretary)
2009	Rizwan S. (Chair) and Eisen Chandy (General Secretary)

### Workshop on New Trends in Electrical Engineering

On 19th March 2009, a workshop on "New Trends in Electrical Engineering" was held in Electrical Engineering Department of MUET in collaboration with MUET-IEEE Student Branch. The special guests were Mr. Mushtaq Ahmed Mirani, Chairman Electrical Engineering Department MUET, Jamshoro and Mr. Agha Zafar-Ul-Allah Pathan, Professor Electrical Engineering Department MUET, Jamshoro. The final year students who took part as speakers were: Mr. Muhammad Sharique Shaikh, Mr. Rameez Ahmed Patoli and Mr. Sajid Ali Shaikh. Speakers mainly focused on modern electrical engineering aspects and scope for engineers.

### Workshop on Career Advancement

A workshop on "Career Advancement: A Multifold Approach" was organized on 28th March 2009, by MUET IEEE Student Branch in collaboration with Society of Petroleum Engineers and JCI International. Four speakers spoke on topics of interest to students. The topics and speakers were:

1. *Human Resource Management* by Mr. Hashim Ismail Hirani, International Trainer, HR Management Consultant.
2. *Career Counseling* by Mr. Mohsin Iqbal, Country General Manager, AL-Futtaim Group.
3. *ICT Revolution* by Engr. Zulfiqar Ursani, General Manager, PTCL.
4. *Conflict Management* by Mr. Anwar Kashif Mumtaz, JCI Senator, Advisor to JCI Pakistan.

### International Workshop on Legal Issues in IT

On Monday 6th April, 2009 a one-day workshop on "Legal Issues in IT for Professionals" was organized by ICT Mehran University of Engineering & Technology in collaboration with MUET IEEE Student Branch which was presided over by Prof. Quintin Gee from the Southampton University UK. The speaker discussed different legal issues over five sessions that an IT professional has to face in his professional career and covered topics such as A manager's role, Privacy, Rights of the citizen, Ways to resolve ethical conflicts etc.

We have a well established IEEE library on the TKMIT Central Library for the Student Branch members. The IEEE Student members are richly benefited through the various International journals available in the library. We also have an active WIE Student's Affinity Group which was started in 2006. The present strength of the Student Branch is 75.

### Achievements of IEEE Student Branch TKMIT

The major achievements of TKMIT are its member's participation in various IEEE Events and also its representation in the LINK Execom. Mr. Leo K. Yohan & Mr. Arun S.R had participated in the R10 Students Congress held at Chennai in 2008 and Mr. Mohammad Sali had participated in the All India Students Congress held at Pune in 2005. Also the Student members have participated in various Section events like AKSC, Face to Face etc in the previous years. Mr. Rizwan was elected as the Asst. Hub driver of Hub 1 (LINK- Local Integrated Network of Kerala) in 2008 and was again re-elected as the Hub 1 Driver in 2009 along with Ms. Anitha Chandra as the WIE representative. Some of the other notable achievements are the formation of a Yahoo group named gyana\_ieee & a website as [www.ieeetkmit.org](http://www.ieeetkmit.org) for the

Student Branch (2008). We also started a mobile group for the Student Branch as "ieeetkmit" (2008). The greatest achievement so far is its successful hosting of the Kerala Section Event, Branch Counsellors Congress 2009 at our campus. The event had representation from nearly half the Student Branches from Kerala, this being only its second venue.



Branch Counsellors Congress'09 participants

### Major Events

SET'05 (Seminars on Emerging Technologies) was the first of its kind organized on the Campus by the IEEE Student Branch of TKMIT. It was a two day event inaugurated on 8th April 2005 by Mr. E. E. Rajakumar (Chair, IEEE Kerala Section 2005), and it had various sessions conducted by eminent personalities from the Kerala Section. The sessions on 8th April 2005 were "Recent trends in Mobile Communication" by Mr. K. N. Premkumar, "Pervasive Computing" by Mr. Satish Babu (Vice President, InApp Information Technologies), "Linux" by Mr. Amarnath Raja (C.E.O InApp Information Technologies), and "Wireless Networking "by Mr Dileep.T (Project Manager Akshaya) The second day, 9th April 2005, also had various interesting sessions. The day started by the IEEE Awareness session by Mr. S. Gopakumar along with a session on "Data Mining and Data Warehousing", "Recent Trends in Power Electronics", by Mr. C. M. Varghese. The Student Branch also Coordinated Avishkar '05 – A two-day Technical Festival in the same year. Next was Echelon '06 - A one day Technical Workshop Session held in 2006. This also was a very successful event which had its continuation in 2008. Echelon'08 was a one day NDLP event with seminar on "Networking using LINUX", by Mr. Amarnath Raja (C.E.O InApp Information Technologies), "Latest Trends in Animation", by Mr. Jaison Jacy (3D Animator) and a workshop on MatLab. Rewa '08 a WIE event was also conducted this year which was purely organized by the women members of IEEE TKMIT. Events in 2009 are Arduino'09 – a two-day workshop on Embedded Systems on the open source Arduino platform which was very productive. An Embedded Systems Wing was started in college following this, that developed an intelligent buzzer in Arduino Platform. Green Dream - a joint movement by the major IEEE Student Branches against global warming. The latest addition to the activities is the hosting of the Kerala Section Branch Counsellors Congress'09 on May 23rd 2009 which was a great success. All the above mentioned were inter College events and had good participation throughout.

The Student Branch have conducted many types of programs such as talk by IEEE GOLD on "How to face an interview" (2005), Seminar on "Social Skills for Professionals" (2008) and talk on paper presentation- "How to present a paper" (2008). It has also taken a keen effort in conducting social and student development programs like School Outreach Program



(2006), Charity Home Visits (Yearly), Spectrum Talk (2009) and Online Group Discussion (2009). It has also organized many industrial visits to places like VSSC (2006), Technopark (2007), Malayalam Communications Ltd. (2008), Keltron Trivandrum (2009).

### Participations

#### Awareness Sessions

The IEEE Student Branch of TKMIT is very keen in promoting the value of IEEE to students in other institutions and we have conducted awareness sessions at the Karunagapally Engineering College ,Kollam and SHM Engineering College, Kadaikkal , Kollam.



#### Future Activities

The Future activities includes the continuation of events like Echelon'09, Rewa'09 (WIE Event) and also other programs like Star Programs (WIE programs), industrial visit to VSSC, Newsletter, Meet the professionals, Online competitions, Alumni Meeting, Technical Workshops on Robotics Embedded Systems etc. We are looking forward to conduct events like Paper Presentation Competitions, quiz competitions, Ice- Cream parties etc as a part of fund raising techniques.

**Rizwan S.**

**Chair, IEEE SB TKMIT, India**

### List of R10 Student Branches

[http://www.ieee.org/web/membership/students/branch\\_lists/R10.html](http://www.ieee.org/web/membership/students/branch_lists/R10.html)

## IEEE Student Branch BUIITEMS, Pakistan

### New IEEE Student Branch at the Baluchistan University of Information Technology, Engineering and Management Sciences Quetta, Pakistan

The IEEE Students Branch at Baluchistan University of Information Technology, Engineering and Management Sciences (BUIITEMS) Quetta, Pakistan was formed on April this year as the first IEEE SB in Baluchistan, Pakistan. BUIITEMS started IEEE SB with 27 Student members and membership is steadily increasing.

During the year 2009 BUIITEMS is planning to organize the first International Conference on Information and Communication Technologies - Theory and Applications. Besides, a series of seminars, workshops and guest speaker sessions are also planned this year. The IEEE SB at BUIITEMS will serve as a vibrant platform for the students of BUIITEMS to be scientists and researchers in promoting technology for the welfare of humankind.

On May 12, 2009 the executive committee of BUIITEMS IEEE SB was elected with the following members:

Chairperson	Raza Ali
Vice Chair	Atika Sajjad
Secretary	Haroon Hussain
Treasurer	Syed Tariq Shah
Counsellor	Faisal Ahmad Khan
Mentor	Bakhtiar Khan Kasi

The BUIITEMS IEEE Student Branch is planning for the development and enhancement of the technical skills of students and hence play a vital role in promoting research oriented culture at BUIITEMS and in Baluchistan at large.

Members of the BUIITEMS IEEE SB are committed to promote the vision of IEEE of Engineering the Future. It is earnestly hoped that the SB at BUIITEMS will serve for the spreading and promoting engineering education in the Baluchistan region of Pakistan.

#### Raza Ali

Chair, IEEE SB BUIITEMS, Quetta, Pakistan

## DIET IEEE Student Branch, Hyderabad, INDIA

### MANAG'ERA'

Recognising the importance of effective management skills, the DIET IEEE Student Branch and Global Integrated Network of IEEE Students (GINI) Visakhapatnam Zone endeavoured to organise MANAG'ERA in March 2009.

MANAG'ERA', aimed at moulding future managers, saw active participation from technical and management students, from DIET as well as other colleges in and around. The event consisted of three sessions - one session being a series of tips and strategies of cracking the CAT and other management exams, and another illuminating session on "The global economic crisis and its impact on India", by the young and dynamic chief guest Mr Abhishek Panda. These sessions were well received and followed by numerous queries by the interested audience. The last session consisted of, a stimulating address by Prof. Ganapathi Panda, on "Introduction to evolutionary computing and financial forecasting".

The guest of honour, Dr. D. V. S. S. Siva Sharma (SAC, IEEE Hyderabad Section), from NIT-Warangal, heartily congratulated the management and the student fraternity of DIET-IEEE SB and Global Integrated Network of IEEE Students(GINI), Vizag Zone for having recognized the

importance of management in the present day world and for their endeavour to mould managers out of technocrats.



(From left) Mr. K. Hemanth Kumar, Mrs Smitha Saji, Prof. B. Jagan Mohan Rao, Mr Abhishek Panda, Dr DVSS Siva Sarma and K. Parikshit Sagar

As the student fraternity, we really learnt the meaning of the word 'team', by MANAG'ERA', apart from gaining an insight into the current trend of the world economy and the relevance of management to it.



Dr. DVSS Siva Sarma addressing the audience

MANAG'ERA' ended with the students craving for more of such interactive and absorbing sessions.

**Ms. Lakshmi Chitanya**  
DIET IEEE SB

## IEEE Student Branch JEC, India

### Student Branch Activities

The IEEE Student Branch of Jyothi Engineering College, Cheruthuruthy is emerging out to be an active one. The newly elected office bearers are:

Chairperson	Arun Thomas Kochu
Vice chairperson	Jithasree S
Secretary	Sreekanth P Achuthan
Treasurer	Sony P Varghese
LINK Representative	Lijo Paul
Branch counsellor	Prof. P Sukumaran

A large scale campaigning and awareness programme was conducted for the juniors. A session on the values and benefits of IEEE was conducted by Jithasree S and Ajila Paul. Presently there are 57 active members.

The student members attended various conferences and meetings of the nearby Student Branches. Five student members attended AKSC-VOYAGE'08 and S-PAC at NIT,

Calicut. Nine of us attended the silver jubilee celebrations of IEEE Kerala Section at MES College of Engineering, Kuttippuram. sixteen of us attended the hub level Student Congress at Vidya Academy of Science and Technology.

The IEEE SB activities for the year 2009-2010 were officially inaugurated in April 2009 by Prof. P V Hameed, Senior IEEE member from MES College of Engineering. The inauguration was followed by an interactive session by Mr. Namith Najeeb, SB counselor of MES College of Engineering. Various doubts raised by the new members were clarified by him.



Inauguration\_of\_IEEE\_SB\_activities\_2009-10

A seminar on Real Time Operating Systems was conducted on 25th April 2009 by Mr. C Shoukath, Senior Design Engineer, DOEACC, Calicut.



Seminar on Real-Time Operating Systems

The EXECOM meetings and General body meetings are being conducted regularly. The general body meetings which are conducted every week also include activities like group discussions, paper presentations etc by the student members. The technical updates and news are being shared through an IEEE notice board.

Our future plans include beginning a WIE affinity group and conducting NDLP sessions. We have also planned a technical fest in September 2009.

**Jithasree S,**  
Vice Chair, IEEE SB of JEC

Student Branches can report their officers [online](http://ewh.ieee.org/forms/scs/interactofficer.php) as elections are held.

<http://ewh.ieee.org/forms/scs/interactofficer.php>

## IEEE PNEC, Karachi, Pakistan Student Branch Activities

### FUNtastic Friday

It all starts with FUNtastic Friday. IEEE PNEC arranged a two hour event for Pakistan Navy Engineering College (PNEC) students on 24 October, 2008. Games promoting social participation and confidence development were played. The winners were rewarded with chocolates. The core idea was to smash the notion that "IEEE is a just a boring and dry technical society."

### IEEE Membership Orientation Seminar

IEEE-PNEC Student Branch in tandem with IEEE-GINI invited Mr. Om Parkash Batra to Pakistan Navy Engineering College as part of their membership drive. Mr. Om Parkash Batra addressed the students about IEEE membership benefits. He also shared what his own experience with IEEE via a presentation named "My Journey with IEEE: from Village boy to RSR". Mr. Batra was presented with the college crest to commemorate the event. After Om's presentation a lucky draw was conducted for 10 IEEE student memberships with 50% off the membership fee.

### Karachi Section Student Congress 2008 at PNEC

The first Karachi Section Student Congress (KSSC) was held at Pakistan Navy Engineering College (PNEC) on 26th December, 2008. Nearly 200 IEEE student members from different universities in Karachi actively participated in the congress.



KSSC'08 Participants

Representatives from different IEEE Student Branches gave presentations on their recent activities and upcoming plans. The event started with the recitation of Holy Quran followed by a welcome note from the Dean of the university, in which he encouraged the IEEE members to hold more activities of this nature. Mr. Om Parkash Batra gave a talk on the benefits of joining IEEE and IEEE GOLD Community. Then there was a presentation which highlighted the challenges faced by the Telecom Industry of Pakistan, and its current growth and progress. After a tea break the congress resumed with an informative session on different Engineering Universities of Pakistan and their quality of education.

### The 2nd IEEE International Conference on Computer, Control & Communication

The 2nd IEEE International Conference on Computer, Control & Communication (IEEE-IC4 2009) was organized by Pakistan Navy Engineering College (PNEC), Karachi, in

collaboration with IEEE and Higher Education Commission (HEC), Pakistan, on February 17 & 18, 2009 at Karachi.

The theme of the Conference was encouragement of upcoming generation into the field of research and indigenous development. The conference provided a platform for researchers, academicians, engineers and end-users of research to share their thoughts and present ideas for future development. The conference facilitated the networking and partnerships for future endeavours.

2nd IEEE IC-4 received an over whelming response from all around the world. Researchers from 26 countries submitted a total of 291 papers, out of which 64 papers were rejected during initial scrutiny. The remaining 227 papers were forwarded for peer review and 150 papers were accepted for final presentation

On the successful culmination of the 2nd IEEE-IC4, the college management formally acknowledged the hard work and tireless efforts of Electronics and Power Engineering Department by hosting a working lunch on 2 April 2009 at Gunroom Mess of PNS JAUHAR. All the EPE faculty, active participating students and PNEC administration were invited.

The whole event was possible because of the untiring efforts of the administration, the infinite zeal of the faculty and the great enthusiasm of students of Pakistan Navy Engineering College.

### **Membership Drive Seminar**

Mr. Arslan Minhas, currently the Chair of IEEE GOLD in Germany, was invited by IEEE Student Branch of Pakistan Naval Engineering College to address the students about his experience as IEEE volunteer and it's benefits in postgraduate education and job acquisition. He graciously agreed and gave a detailed lecture on 5th March, 2009. The lecture focused on the benefits of IEEE that are unique to each member and essential for a personalized experience in such a large community. The lecture provided an insightful view of IEEE as a society in general and a community in particular. A question answer session was held in the end followed by tea.

As a result of this seminar the students of Pakistan Navy Engineering College developed greater understanding of the importance of volunteering and also showed greater interest in becoming an active part of IEEE.

### **Women in Engineering Day**

A Women in Engineering Day was celebrated at Pakistan Naval Engineering College on Saturday, 14th March, 2009, to inspire the female students to make use of their great potential, and to set firm ground for opening a WIE Chapter at Pakistan Naval Engineering College.

The event started with a screening of "IEEE 125" video (from IEEE TV), it was followed by a presentation by Ms. Nimra Kazmi on "Women – redefining the word engineer in the 21st century". After this an ice-breaking game - "pass the number", was played. Mr. Hassan Idrees gave a presentation about famous women scientists and engineers of the past and present. This was followed by a screening of IEEE TV's "Nerd Girls" video. Mr Syed Ali Asad Rizvi held a discussion with the students about the various opportunities available for women in engineering careers. A circuit design competition was held in which the participants solved a fun circuit problem. Then Cisco's "I am an Engineer" video was shown. All attendees played musical chairs. At the end prize distribution ceremony was held for winners of the games and circuit design competition.

It was a fun-filled event and helped in boasting the interest of PNEC's female students in IEEE's activities. Ms Nimra Kazmi was awarded IEEE membership for year 2009 for her volunteer efforts in organizing this event. Other volunteers were Syed Ali Asad Rizvi, Umair Ahmed, Jahanzeb Khan, Sameed Ahmed, Usman Hassan and Hassan Idress



Volunteers and winners of PNEC WIE day

### **Foosball Tournament**

In order to promote the social aspects and the fun side of IEEE a foosball tournament was held in the NUST Boys hostel of Pakistan Naval Engineering College campus. 40 teams of 2 players each registered for the event. Preliminaries were held on Friday, 13th of March 2009 - which lasted for 5 hours. 12 teams qualified for the semi-finals which were held on the next day and the two final teams came through. On Sunday night, amidst great cheer and support the final showdown took place. In the end a loud celebration was held by the winners of the tournament.

The event generated lots of passion and interest from the students towards IEEE. It helped the students visualize IEEE as more than just-a-technical-society.

This event was the brainchild of Mr. Usman Hassan, whose passionate energy made this a memorable event.

### **“So you think you are funny?”**

As part of its IEEE 125 years celebrations, Pakistan Navy Engineering College IEEE Student Branch (PNEC - NUST) in collaboration with IEEE GINI (Global Integrated Network of IEEE) gave Karachi Section student members a chance to show the world their funny side by holding the "So you think you are funny?" contest. held a stand up comedy contest on Saturday, 18th of April, 2009. This was the first competition of its kind in IEEE Karachi section.

### **Career Counselling Seminar**

As part of the series of events of IEEE's 125 years' celebrations, IEEE-PNEC recently hosted a Career Counselling Session in Karachi at PNEC on Friday 22 May, in collaboration with IEEE GOLD Karachi Section. This event was a small, yet focused attempt by PNEC to better groom university students and guide them in making rewarding career choices.

This event enjoyed enthusiastic student participation from several IEEE Karachi Student Section Branches and a receptive involvement of leading engineering professionals associated with local and international organizations. It successfully brought together industry professionals and students from different universities on a single platform enabling one-to-one interaction for the mutual benefit of both, the former divulging the professional requirements for the students, and the latter learning to mould themselves with those requirements.

The event kicked off with an enlightening opening address by Commodore Sarfraz Husayn, followed by PNEC alumnus Ahsan Raza, Consultant LCC giving an informative presentation on RF Optimization, besides an emotional reminiscence for his alma mater. An interactive session by Sakeb Mansur Senior HR Manager TPS was next, in which the presenter evoked his enthusiasm in all present by proposing interest-provoking and interest-sustaining questions. Lunch break followed this presentation, after which Zafer Khan, CTO Wavetec Engineering advised the audience on how to equip them before stepping into the professional world. Mr Khan's address was met with a number of well-informed student queries, after which Mohsin Jafri, an HR Manager then revealed the secrets to students, on everything from interview-skills to job-hunting. This ended a much-appreciated program by all the students and professionals present, during which a few organizations even conducted interviews for mock-jobs and internships. The program was also highly appreciated, and the audience hoped more such events would follow suit.

Prominent volunteers were Sameed Ahmed Khan, Muhammad Raashid, Aliza Muftun, Hassan Iddrees, S/Lt Moez Haider, Ahmed Hayyat, S/Lt Dawood Mirza, Ahmed Mujtaba, S/Lt Abdullah Afzal.

**Syed Ali Asad Rizvi**  
**Chair IEEE PNEC**

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### **IEEE Student Branch Model Engineering College, Thrikkakara, Kerala, India**

#### **IEEE Student Branch of Model Engineering College**

The major activities organized by the IEEE Student Branch of Model Engineering College during the period August 2008 to May 2009 were

- WIE Student Chapter Inauguration and Computer Hardware Workshop
- EXCEL 2K9, Annual South India level Technical Fest
- Workshop on Circuit Analysis and Simulation Using Ngspice

#### **WIE Student Chapter Inauguration and Computer Hardware Workshop**

The inauguration of the WIE Student Chapter of Model Engineering College was held on 23<sup>rd</sup> August of 2008. Mrs. Parveen Hafiz, Managing Director, Sunrise Hospital, Kochi and Mrs. Jyothi Ramaswamy, Information Security Manager, Tata Consultancy Services (TCS) presided the function.

Ms. Priyanka T. V., student-in-charge of the WIE Chapter delivered the welcome speech. Dr. Mini M. G., Head of Department of Electronics Engineering delivered the presidential address and wished success to the WIE Chapter and offered her full support for its activities.

Inaugural address delivered by Mrs. Jyothi Ramaswamy focused on the value of IEEE membership. Mrs Parveen Hafiz delivered the keynote address which centered on the conversion of young engineers to entrepreneurs. The felicitation was given by Mr Cejo K. L., Lecturer whereas Mrs. Vinitha George, IEEE Student Branch Counselor delivered the vote of thanks.

The inaugural ceremony was followed by the one day Computer Hardware Workshop. The participants were familiarized with the motherboard, peripherals and other hardware accessories. The students were introduced to the

basic block diagram of a motherboard and its layout. The various slots and sockets were then outlined to the students. A computer was completely disassembled and then its assembling was demonstrated. An introduction to the BIOS and hardware debugging were also given to the students. The workshop was attended by 40 students.

#### **EXCEL 2K9**

The annual South India level technical fest of Model Engineering College (MEC) entitled 'EXCEL 2K9' was organized by the IEEE Student Branch 23<sup>rd</sup> to 25<sup>th</sup> January, 2009. EXCEL 2K9 was inaugurated by Mr. Prince Joseph, Scientist 'F', Naval Physical Oceanographic Laboratory (NPOL), Kochi. In his inaugural speech, Mr. Prince talked about the importance of conducting such technical events for augmenting the technical interests of students.

On the first day there were two interactive workshops. The session "*Long Shot in a Thick Jungle: Startups in India*" by Mr. Tej Arora, Founder of SmartCrowds, lived up to its hype. Mr. Tej Arora stressed on the need for today's youth to come forward and realize their dreams of starting on their own. He explained the importance of nurturing an entrepreneurial spirit among students and the youth of India. The session "*Climate Change and Global Warming*" was conducted by Indian Youth Climate Network (IYCN).

On the second day there was an interactive workshop on *Virtualization* by Mr. Sundara Nagarajan, Distinguished Technologist, Systems Technology and Software Division (STSD), a fully owned R&D wing of Hewlett-Packard Technology Solutions Group (TSG). There was also a session on *Wildlife Conservation* by a team from World Wildlife Fund (WWF). But the highlight of the day was the Robotics Workshop conducted by the Robotah team. The students who attended this workshop were presented with a USB programmable microcontroller development kit.



Free and Open Source Software (FOSS) Meet was held on the third day and had four sessions. The first session "*FOSS in Your Career*" was conducted by Mr. Atul Chitnis, Technology Consultant & Senior VP (Product, Technology and Strategy), Geodesic Information Systems Ltd., Bangalore. The next session was "Hacking the Language" by Mr. Santhosh Thottingal. This was followed by a very informative session on "The Charm of Learning New Things with Open Source" by Mr. Shreyas Srinivasan, Co-founder, RadioVeRve, wherein he talked about how to get started with open source development. The final session was "*Hands on Blender*" by Mr. Zadeeq, final year student of CUSAT.

At the exhibition on FOSS the stalls exhibited various GNU/Linux distributions and FOSS software. A stall on **FOSS VLSI EDA Tools** was set up by the Department of Electronics Engineering.

The major technical contests conducted were Electronic Extraordinaire – a circuit designing event, Line Tracer – robotics contest, Signal Maestro – a Matlab coding contest, Progmatic Solutions – programming contest, Linux Guru, Paper and Project Presentation. Managerial Mettle tested the management as well as marketing skills of participants. A general quiz and a school quiz were organized by Illuminati, the Quiz Club of MEC.

Robotics events, ‘Defuse’, ‘Hack Zone’ and ‘Sumobot’, attracted a large number of participants from across the country. A Biomedical equipments show and a public demonstration of student projects were conducted on all the three days.

### **Workshop on Circuit Analysis and Simulation Using Ngspice, March 7th of 2009**

IEEE Kerala Section's GOLD Affinity Group Chair, Mr. Cejo K. L., Lecturer, Model Engineering College organized a one day workshop on “Circuit Analysis and Simulation Using Ngspice” for B. Tech students. Ngspice is a free and open source mixed-level/mixed signal circuit simulator based on the original Berkeley Spice 3F5. The participants were initially introduced to the concepts of schematic capturing and circuit netlists. The students were familiarized with various types of circuit analyses that SPICE supports and the syntax of SPICE. Many examples of various types of circuits and different types of analyses on them were also performed.



The second session was a hands-on session wherein the students tried out different circuit analyses on various circuits. The free and open source tools used were Ngspice for circuit simulation and Ngnutmeg for post processing, running on Fedora Release 10 Cambridge GNU/Linux platform at the Advanced Projects Laboratory. The workshop was attended by 25 students who expressed their interest for more such hands-on sessions in the future.

**Nidhun Thankachan**

**Chair, IEEE Student Branch Model Engineering College Thrikkakkara, Kochi, India**

### **Qualifications for IEEE Student Membership**

**A Student Member must** carry at least 50% of a normal full-time academic program as a registered undergraduate or graduate student in a regular course of study in IEEE-designated fields; and (2) not yet qualify for Member grade. The total cumulative period for a member to hold the Student Member grade and/or the Graduate Student Member grade shall be limited to 8 years.

Student Members, upon graduation or upon reaching the 8-year limit (whichever occurs first), with at least a baccalaureate or higher degree (or its equivalent) from an accredited institution in an IEEE-designated field shall be transferred to Member grade.

Student Members other than those qualifying under subparagraph (b) upon graduation or upon reaching the 8-year limit (whichever occurs first) shall be transferred to Associate Member grade.

**A Graduate Student Member** qualify for Member grade and carry at least 50% of a normal full-time academic program as a registered graduate student in a regular course of study in IEEE-designated fields. The total cumulative period for a member to hold the Student Member grade and/or the Graduate Student Member grade shall be limited to 8 years.

Graduate Student Members, upon graduation or upon reaching the total cumulative 8-year limit as a Student Member and/or Graduate Student Member (whichever occurs first), shall be transferred to Member grade.



### **IEEEExtreme 24 Hour Programming Challenge**

**IEEEExtreme 2009 planning is underway - Mark your calendars for 24 October 2009**

<http://www.ieee.org/web/membership/students/scholarshipsawardscontests/ieeextreme.html>

IEEEExtreme is an IEEE MGA Student Activities Committee program, creating a worldwide 24 hour programming contest for IEEE Student Branches. IEEEExtreme is a global challenge in which teams of student members, supported by an IEEE Student Branch, advised and proctored by an IEEE Member, compete in a 24-hour time span against each other to solve a set of programming problems. It aims to provide Student Branches with a new and interesting activity and increase the number of activities with a focus on the computer, programming and information technology fields with fans in IEEE

## **[Upcoming IEEE Conferences in Region 10](http://www.ewh.ieee.org/reg/10/Announcements/conferences.html)**

<http://www.ewh.ieee.org/reg/10/Announcements/conferences.html>

### **2009 IEEE International Workshop on Open-source Software for Scientific Computation (OSSC) 18 Sep - 20 Sep 2009**

Conference Location: Guiyang, China  
Sponsored By: Beijing Section  
Abstract Submission Deadline: 01 Aug 2009  
Final Paper Submission Deadline: 10 Dec 2009  
<http://www.ossweb.org/>

### **2009 First Asian Himalayas International Conference On Internet (AH-ICI), 03 Nov - 05 Nov 2009**

Conference Location: Kathmandu, Nepal  
Sponsored By: Communications Society – COM  
Abstract Submission Deadline: 31 Jul 2009  
Final Paper Submission Deadline: 05 Sep 2009  
<http://www.ah-ici.org/ah-ici2009/>

### **2009 International Conference on Wireless Communications & Signal Processing (WCSP 2009) 13 Nov - 15 Nov 2009**

Conference Location: Nanjing, China  
Sponsored By: Communications Society - COM, Nanjing Section CAS Chapter, Nanjing Section SP Chapter  
Final Paper Submission Deadline: 30 Sep 2009  
<http://www.ic-wcsp.org/>

### **2009 Asia Pacific Conference on Postgraduate Research in Microelectronics & Electronics (PrimeAsia) 18 Nov - 20 Nov 2009**

Conference Location: Shanghai, China  
Sponsored By: Shanghai Section CAS Chapter  
Abstract Submission Deadline: 10 Aug 2009  
Final Paper Submission Deadline: 10 Oct 2009  
<http://www.PrimeAsia.org>

### **2009 IEEE International Conference on Intelligent Computing and Intelligent Systems (ICIS 2009) 20 Nov - 22 Nov 2009**

Conference Location: Shanghai, China  
Sponsored By: Beijing Section, Shanghai Section  
Abstract Submission Deadline: 01 Aug 2009  
Final Paper Submission Deadline: 20 Sep 2009  
<http://www.icis09.cn>

### **2009 24th International Conference Image and Vision Computing New Zealand (IVCNZ) 23 Nov - 25 Nov 2009**

Conference Location: Wellington, New Zealand  
Sponsored By: New Zealand Central Section  
Abstract Submission Deadline: 11 Sep 2009  
Final Paper Submission Deadline: 09 Nov 2009  
<http://ivcnz2009.massey.ac.nz>

### **2009 International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP) 07 Dec - 10 Dec 2009**

Conference Location: Melbourne, Australia  
Sponsored By: Sensors Council – SEN  
Abstract Submission Deadline: 31 Jul 2009  
Final Paper Submission Deadline: 30 Sep 2009  
<http://www.issnip.org/2009/>

### **2009 International Symposium on Bioelectronics and Bioinformatics (ISBB)**

**09 Dec - 11 Dec 2009**

Conference Location: Melbourne, Australia  
Sponsored By: Engineering in Medicine and Biology Society – EMB  
Abstract Submission Deadline: 31 Aug 2009  
Final Paper Submission Deadline: 15 Oct 2009  
<http://isbb2009.wmah.org/>

### **2009 First UK-India International Workshop on Cognitive Wireless Systems (UKIWCWS 2009) 10 Dec - 12 Dec 2009**

Conference Location: Delhi, India  
Sponsored By: Delhi Section, United Kingdom & Republic of Ireland Section  
Abstract Submission Deadline: 01 Aug 2009  
Final Paper Submission Deadline: 31 Oct 2009  
<http://www.interact-uki-cwsua.org/>

### **2009 IEEE 13th International Multi-topic Conference (INMIC)**

**14 Dec - 15 Dec 2009**

Conference Location: Islamabad, Pakistan  
Sponsored By: Islamabad Section  
Abstract Submission Deadline: 31 Jul 2009  
Final Paper Submission Deadline: 21 Oct 2009  
<http://www.jinnah.edu.pk/inmic2009/index.htm>

### **2009 Applied Electromagnetics Conference (AEMC) 14 Dec - 16 Dec 2009**

Conference Location: Kolkata, India  
Sponsored By: Antennas and Propagation Society - AP, Microwave Theory and Techniques Society - MTT, Calcutta Section, Calcutta Section AP/MTT Joint Chapter  
Abstract Submission Deadline: 15 Aug 2009  
Final Paper Submission Deadline: 15 Oct 2009  
<http://www.ieee-aemc.org/>

### **2009 International Conference on Information Engineering and Computer Science (ICIECS) 19 Dec - 20 Dec 2009**

Conference Location: Wuhan, China  
Sponsored By: Cyprus Section C/COM Joint Chapter  
Abstract Submission Deadline: 31 Aug 2009  
Final Paper Submission Deadline: 10 Oct 2009  
<http://www.iciecs.org/>

### **2010 International Conference on Wireless Communication and Sensor Computing (ICWCSC) 02 Jan - 04 Jan 2010**

Conference Location: Chennai, Tamil Nadu, India  
Sponsored By: Madras Section, Madras Section COM Chapter  
Abstract Submission Deadline: 05 Sep 2009  
Final Paper Submission Deadline: 30 Nov 2009  
<http://www.ssnicwcsc2010.in/>

### **2010 IEEE 2nd International Advance Computing Conference (IA CC 2010), 19 Feb - 20 Feb 2010**

Conference Location: Patiala, India  
Sponsored By: Delhi Section, Delhi Section C Chapter, Delhi Section, Student Branch, Thapar University  
Abstract Submission Deadline: 15 Oct 2009  
Final Paper Submission Deadline: 31 Dec 2009  
<http://iacc.co.in>

**2010 5th ACM/IEEE International Conference on Human-Robot Interaction (HRI), 02 Mar - 05 Mar 2010**

Conference Location: Nara, Japan

Sponsored By: Robotics and Automation Society – RA

Abstract Submission Deadline: 15 Sep 2009

Final Paper Submission Deadline: 12 Jan 2010

<http://www.hri2010.org>

**2010 11th IEEE International Workshop on Advanced Motion Control (AMC), 21 Mar - 24 Mar 2010**

Conference Location: Nagaoka, Japan

Sponsored By: Industrial Electronics Society – IE

Abstract Submission Deadline: 15 Oct 2009

Final Paper Submission Deadline: 15 Dec 2009

<http://amc2010.com/>

**2010 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting (BMSB) 24 Mar - 26 Mar 2010**

Conference Location: Shanghai, China

Sponsored By: Broadcast Technology Society – BT

Abstract Submission Deadline: 01 Nov 2009

Final Paper Submission Deadline: 19 Feb 2010

<http://www.ieee.org/bts/multimedia>

**2010 IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks (IE EE DySPAN), 06 Apr - 10 Apr 2010**

Conference Location: Singapore, Singapore

Sponsored By: Communications Society – COM

Abstract Submission Deadline: 15 Oct 2009

Final Paper Submission Deadline: 01 Feb 2010

<http://www.ieee-dyspan.org/>

**2010 IEEE Wireless Communications & Networking Conference (WCNC) 18 Apr - 21 Apr 2010**

Conference Location: Sydney, Australia

Sponsored By: Communications Society – COM

Abstract Submission Deadline: 18 Sep 2009

Final Paper Submission Deadline: 04 Jan 2010

<http://www.ieee-wcnc.org/>

**IEEE WOMEN IN ENGINEERING CONGRESS 2009**

**IEEE WIE'CON '09**

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***on 23 and 24 Oct 09 at Bangalore***

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