

## IEEE R10 News and Highlights

### Student Branch Website Contest 2013 for Region 10

The selected Student Branches and the prizes they are entitled for are as follows.

#### 1st Place: USD500 & Certificate

Federal Institute of Science and Technology (Kerala Section)

<http://ewh.ieee.org/sb/kerala/fisat/>

#### 2nd Place: USD350 & Certificate

Jeppiaar Engineering College (Madras Section)

<http://jeppiaarieee.org/Beta>

#### 3rd Place: USD200 & Certificate

Thadomal Shahani Engineering College (Bombay Section)

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

These websites will be representing the region 10 at the global website contest for student branches.

Sincere gratitude should be extended to Om Perakash (SAC Chair) and Farish CV (R10 Webmaster) for the unstinted support and guidance throughout the process.

*Pasan Pethiyagode,  
Student Representative  
IEEE R10 Student Activities Committee*

### 2012 R10 Distinguished Large and Small Section Awards

The Region 10 has selected **Hong Kong Section** as the 2012 R10 Distinguished Large Section Award and Kharagpur Section as the 2012 R10 Distinguished Small Section Award.

The selection of two awards was based on the activities and membership summarized in the 2012 Section Reports submitted by R10 Sections.

Award certificate will be presented to these winning Sections at the 2014 R10 Annual Meeting to be held

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### Announcement

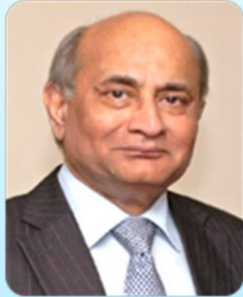
early next year, and the cash prize of USD 1,000 will be sent to each of them after the meeting.

Congratulations on the job well done by Hong Kong and Kharagpur Sections!

*Kukjin Chun  
IEEE R10 Awards & Recognition Committee Chair*

## IEEE President-Elect 2014

*Introductions and Position Statements of IEEE President-Elect Candidates  
(Candidates are listed in the alphabetical order by the last name)*



**Tariq S. Durrani**

(Nominated by IEEE Board of Directors)

[www.tariqdurrani.org](http://www.tariqdurrani.org)



**Howard E. Michel**

(Nominated by IEEE Board of Directors)

[howardmichel.net](http://howardmichel.net)

### Your Vote is Important

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 eligible members also include postgraduate students. Ballot packages will be mailed to and electronic ballot access created for all IEEE members eligible to vote on or before **August 15<sup>TH</sup>, 2013**.

To ensure your ballot package is delivered to the proper mailing address, please update your member profile if necessary by logging into your IEEE account.

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#### 2013 annual election key dates

##### 14 June

Petition nominations for candidates to be elected by the membership must be received by 12:00 p.m. ET, USA/16:00 UTC

##### 15 August

IEEE annual election ballots are sent to all voting members on record as of 30 June

##### 1 October

Last day for receipt of ballots from voting members by 12:00 p.m. CT, USA/17:00 UTC

For more information:

<http://www.ieee.org/about/corporate/election>

## IEEE Educational Activities' Engagement with Thailand Ministry and International Organisation

Dr Doug Gorham (Managing Director of Educational Activities) visited Thailand, Bangkok recently.

During this trip, Dr Doug Gorham met up with key personnel from International Telecommunication Union (ITU) and Thailand Ministry of Information and Communication (MICT)

IEEE Continuing Education will be working closely with these two organisations to explore their training needs for individuals. The training needs that have been identified include Technical Writing, Technical Presentation, English for Engineering and mobile communications.

MoUs will be signed within the next few months.



*from left to right: Mr. Ashish (ITU Program Coordinator, Asia Pacific), Dr. Doug Gorham (MD EAD), Dr. Kim Eun Ju (ITU Regional Director – Asia Pacific ITU), Leo Hwa Chiang (IEEE Continuing Education)*



*Dr. Doug Gorham, with Inspector General of Thailand Ministry of Information and Communication (MICT), Ms. Methini Thepmani*

*LEO Hwa Chiang,  
Continuing Education, IEEE Asia-Pacific*

## R10 WIE Support Fund 2013 Results

Dear Section Chairs and WIE Affinity Group Chairs,

Thank you for submitting the proposal to R10 WIE support fund 2013. This year, R10 WIE received a total number of 59 proposals.

After careful consideration, R10 WIE committee has reached the final decision to award 35 proposals.

In more detail, please refer to:

<http://www.ieeer10.org/2013/07/02/r10-wie-support-fund-2013-results/>

Congratulations to all the recipients and big thanks to all the participants. R10 WIE wishes for the fruitful activities your Affinity Group will organize.

*Takako Hashimoto*

*IEEE R10 WIE Coordinator 2013-2014*

### IEEE R10 Councils/Sections News and Highlights

## IEEE Australia Council Student Paper Contest 2012-13

The IEEE Australia Council Student Paper Contest (SPC) for postgraduate and undergraduate students offers the IEEE Student members an opportunity to exercise and improve both written and verbal communication skills. Throughout an engineer's career, the graduates are constantly called upon to communicate ideas to others. Researching, writing, and presenting a paper provides a student with invaluable early experience in expressing ideas related to their professional field. Since the paper contest's primary function is to improve the engineering student's communicative skills all IEEE student members in Australia are encouraged to participate in this contest. The contest is conducted for two separate categories; one for undergraduate students and one for postgraduate students. For the promotion of engineering profession among female students, the contest also offers prizes in both categories to the members of IEEE Women in Engineering Affinity (WIE) Group.

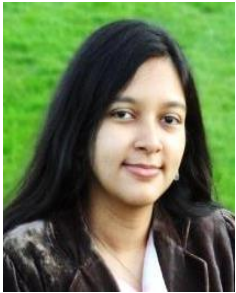
We are pleased to announce the results of the IEEE Australia Council (IEEE AC) sponsored Postgraduate Student Paper Contest 2012-2013. The winners are:



**First Place :** James D. Foster, School of Mathematical and Physical Sciences, University of Newcastle, for the paper: *“Comparison of Mixed-Integer Programming and Genetic Algorithm Methods For Distributed Generation Planning”*.



**Second :** Giovanni Geraci, School of Electrical Engineering and Telecommunication, The University of New South Wales, for the paper *“Large System Analysis of Linear Precoding in MISO Broadcast Channels with Confidential Messages”*.



**WIE Winner :** Shama N. Islam, College of Engineering and Computer Science, The Australian National University, for the paper *“Joint Decoding: Extracting the Correlation among User Pairs in a Multi-way Relay Channel”*.

Congratulations to the winners and thanks to all those who participated in the 2012-13 contests.

*Lance Fung*

*Associate Professor*

*Chair, IEEE Australia Council 2013-2014*

*Dr. Ali Hellany,*

*Student Activities Coordinator 2012*

*Dr. Sharon Lim,*

*Student Activities Coordinator 2013*

## **The IEEE Bombay Section: Conference on Renewable Energy and Energy**

The IEEE Bombay Section, in association with Indo-German Chamber of Commerce, successfully organized a conference on Renewable Energy and Energy efficiency at the MCA, BKC, in Mumbai.

Business leaders and managers from varied industries participated. Useful insights were provided at the conference that led to healthy discussions among the participants, with them eventually agreeing upon the need to understand the sustainability of the energy in the

industry with respect to cost, requirement, efficiency, availability and environment. The thought-provoking keynote by Prof. Rangan Banerjee, IIT-Bombay stressed on the need to shift the focus from energy sources to energy services. Mr. Achim Rodewald of IGCC elaborated on the EU Energy Manager program and certification while Dr. Felix Weber of Green elephant, showcased some profitable uses of compressed bio gas plants. Dr. Kulkarni shared information on practical implementations of sustainable indigenous solutions for energy storage.

Industry professionals benefitted from the discussions on various strategies to better manage the energy cycle and also develop and implement policies for technologies to flourish in the market while operating in an environment friendly manner. The conference successfully covered the need, sufficiency and efficiency of energy resources that were discussed as important parameters, considering its renewability and use.

Mr. Ashok Jagatia, Section Chair made the inaugural address and Mr. Aiyappan Pillai, Technical & Professional Activities Chair proposed the vote of thanks.

*Aiyappan Pillai*

*Technical and Professional Activities Chair,  
IEEE Bombay Section*

## **IEEE Kerala Section: IEEE GHTC South Asia Satellite**

South Asia, home to one-sixth of the world population and having a significant number of humanitarian challenges of specific relevance to GHTC, mandated Kerala Section with the first-ever South Asia Satellite conference, IEEE Global Humanitarian Technology Conference – South Asia Satellite 2013 (IEEE GHTC SAS 2013). The Global Humanitarian Technology Conference (GHTC-SAS) was formally inaugurated at Technopark, Trivandrum, Kerala by Mr. P. H. Kurian IAS, Principal Secretary (IT), Government of Kerala, in the presence of over 150 delegates and participants from 4 countries.

Mr. P. H. Kurian, inaugurating the GHTC-SAS, said that, technologies should serve the best interests of people. Historically, India has been extremely rich in terms of innovation, but has lost its leadership position. It is important to reclaim the role of innovation in the Indian economy. Kerala has proved successful in innovation through Technology Business Incubation Centers (TBIC) and similar initiatives. The Government of Kerala has created enabling frameworks to promote innovation that will doubtless serve the interests of the state in future.



Prof. Kannan Moudgalya of IIT Bombay, who delivered the keynote address at the inaugural session, explained the concept of spoken tutorials, an electronic educational technology that was becoming very popular amongst students and the academic community. He said that Aakash, a low-cost tablet device introduced by the Government of India, coupled with Spoken Tutorials, are together “humane weapons of mass instruction” that can radically transform the educational scenario in the country.

The Community Engagement Workshop (CEW) held in the sidelines of the Conference saw participation from over 95 delegates from various NGOs. Mr. Stan Thekaekkara, a social activist who had been working with tribals in the Western Ghats for over 30 years, delivered the keynote address at the CEW. He pointed out that technology, given its increasing role in the lives of communities, must be controlled by communities themselves, and young engineers should reflect on their values and contributions to society.

On day two of the Conference, around 81 papers were presented on different innovations, on five tracks of contemporary relevance: Distributed renewable energy generation and microgrids; Municipal solid waste management; Inclusive technologies for the differently-abled; Agriculture, water, disaster management, health and education; and Emerging Technologies for Humanitarian Applications. The selected Best paper will be given a chance to be presented at the IEEE GHTC, Silicon Valley, California during October, 2013.

GHTC-SAS, the first conference of its kind outside the US, gave a platform for different stakeholders interested in the technology-society interface to engage with the challenges of the 21st the century.



*Mr. Amarnath Raja addressing the gathering*



*Delegates at the GHTC-SAS*

*Compiled by  
Sabarinath Pillai  
Secretary,  
IEEE Kerala Section*

## **IEEE Malaysia Section: 4<sup>th</sup> IEEE Curtin Sarawak Exhibition on Technology of the New Era**

The event was jointly organized by IEEE Curtin Sarawak student branch, Electrical & Computer Engineering Department of Curtin Sarawak, and IEEE Engineering, Medicine & Biology Society Malaysia Chapter. It was held on 22-23 August 2013. The objectives of the exhibition were to showcase students' projects, create technological awareness for everyday use, encourage the appreciation of technology and engineering in the new era, and enable the localization and contextualization of future research directions. There were 18 student projects from 4 universities competing for the top 3 projects of the year awards. The exhibition offered students and visitors the opportunity to explore new technologies besides being able to meet and network with industry and technology experts like X-Fab, F Secure, Multimedia Development Corporation (MDeC), DreamCatcher, and IEEE Malaysia. Additionally, the final year students were able to have a walk-in interview session at X-Fab booth.

There were workshops on “How to assemble a computer the fastest way” and “Cable Crimping”. “Train the Trainer” was yet another workshop in Arduino software for the undergraduates. The two-day event was also filled with interesting talks: “How to get hired? Expectation and challenges working in the high technology industry” by X-Fab; “IEEE membership: Choices and opportunities for serving and being served” by Malaysia Section; “Relevance of EMBS in Malaysia” by EMBS; “The state of the Net” by F Secure; “Opportunities in IEEE-EPICS by EMBS; “Embedded systems and its career prospect in Malaysia” by DreamCatcher; and “ICT as a career of choice” by MDeC.

The event was sponsored by a philanthropist, Mr. Hii King Chiong. In his opening speech, he said internship provides engineering students with an opportunity to gain work experience, determine one's career interest and increase network contacts while improving academic results.

For more details, please visit:

[www.ieeemy.org](http://www.ieeemy.org)

<http://ewh.ieee.org/sb/malaysia/curtinsarawak/>



*Can't do without the committee and lecturers*



*Each showcase was an eye-catcher*

*Dianne Cheong Lee Mei, PhD, SMIEEE  
Chair of Communication/Newsletter,  
IEEE Malaysia Section 2013  
SIGHT Coordinator,  
IEEE Malaysia Section 2013*

*Leveraging Technology  
for a Better Tomorrow*  
**IEEE Day**  
**1 October 2013**

## IEEE R10 Chapters News & Highlights

### IEEE Signal Processing Society Malaysia Chapter:

#### Image Processing, Image Analysis & Real Time Imaging Symposium (IPIARTI) 2013 and Symposium on Audio Speech and Signal Processing (SASSP) 2013

The 4<sup>th</sup> Image Processing, Image Analysis and Real Time Imaging (IPIARTI) symposium and the 1st Symposium on Audio Speech and Signal Processing (SASSP) were held concurrently on Thursday May 09, 2013 at the University Tenaga Nasional (UNITEN) Putrajaya Campus. The goal of these symposia was to expose researchers to extra-ordinary research. The emphasis was on student-researchers most of whom are in the formative stages of their careers. To this end the symposia were resounding successes with over 100 delegates, overwhelmingly graduate students and recent graduates, attending to listen to three renowned experts in the fields of signal and image processing.

The proceedings began with the general chair, Syed Khaleel Ahmed, welcoming the delegates followed by a presentation of the activities of the IEEE Signal Processing Society (Malaysia Section) by its acting chair, Syed Abdul Rahman Syed Abu Bakar.

This was followed by the main keynote speaker and DLP IEEE SP, Ton Kalker, VP, Security and DRM, DTS Inc., USA. He spoke about the "status of digital watermarking," and gave an overview of state-of-the-art of digital watermarking, preceded by an historical overview. The second keynote speaker, Eko Suprianto, Director, IJN-UTM Cardiovascular Engineering centre, UTM spoke about "Technologies in Cardiac Imaging." The final keynote speaker, Farrukh Hafiz Nagi, Associate Professor, University Tenaga Nasional, spoke about his experiences in working with DSP hardware in his lecture titled "From theory to practice – Experiences with the DSP-Microcontroller for Mechatronic systems."

The morning session ended with questions from the delegates to the speakers followed by a robust discussion.

The second part of the symposia held in the afternoon consisted of 4 sessions where delegates whose papers had been selected after a blind review process presented their work. A total of 20 presenters discussed their results.





*DLP Ton Kalker VP, Security and DRM, DTS Inc., USA, and Syed Abdur Rahman, Acting Chair, IEEE Signal Processing Society Malaysia Section at IPIARTI SASSP 2013*



*Participants at IPIARTI 2013*

*Syed Khaleel Ahmed  
Yasmin Hanum Mohd Thayoob  
General Chairs, IPIATI/SASSP 2013*

## **IEEE EMB Bangalore Chapter: Breast Cancer Screening Camp**

The Breast health program in Bengaluru is about promoting breast health, in view of the Indian Council Medical Research (ICMR) indicating that the incidence of Breast Cancer will overtake cervical cancer which is the number 1 cancer in Indian women by the year 2020. Hence it becomes necessary to inform women about the right approach to containing this epidemic thus empowering women with the knowledge and support to make informed choices about their health.

IEEE Engineering in Medicine and Biology (EMB) Bangalore Chapter and Medical Electronics Department of M.S. Ramaiah Institute of Technology (MSRIT) in association with Anjana Diagnostics Center, Indira Nagar Bangalore organized ten days free breast screening camp from 21 May to 31 May 2013 at Anjana Diagnostics, Indira Nagar II Stage, Bangalore, Karnataka. This event is also co-organized by IEEE Bangalore Chapter, Rotary Club-Bangalore High Grounds, National Engineering College, Kovilpatti,

Tamil Nadu and Indira Gandhi Atomic Energy Centre, Kalpakkam.

The screening was done using thermography as well as Ultrasonography procedure on 100 women with an intention to create awareness among them. Participants from rural areas, MSRIT, MSR Degree College and ladies from all over Bangalore took part. This camp provided them the right understanding and approach to Breast Health with specific reference to the early detection of Breast Cancer by offering a zero-radiation approach to detecting breast cancer at its earliest stages using technology that measures heat emitted from body tissue and another using very high frequency sound (Ultrasound).

The camp ended with a valedictory function on 31st July with Chief Guest as the Honourable minister for Health and Family welfare – Sri. U. T. Khader.

Dr. S. Y. Kulkarni, Principal, MSRIT welcomed Sri. U. T. Khader, Honourable minister for Health and Family Welfare, Karnataka Government, Dr. Ramprakash from Central Diagnostic Research Centre, Bangalore, Dr. Venkataraman from IGCAR, Mr. Mahadeva Prasad from Rotary Bangalore High Grounds and Dr. Shenabagavalli from National Engineering College, Tamil Nadu. He further pointed out that though MSRIT is an Engineering College, it has taken the initiative to organize a very important event such as Breast Cancer Screening Camp. His emphasis was on creating Health awareness in terms of early Diagnosis held at regular intervals.

After all the dignitaries addressed the audience, Sri. U. T. Khader, Honourable Health and family minister addressed the audience and expressed his desire to make Karnataka a healthy state and a leader in Health care and cure. He also requested the NGOs, Healthcare institutions and related associations in joining hands with the government in removing the cause for disease instead of later spending a huge amount on curing the disease. In this context he informed the audience that he has signed on the bill Banning Ghutka. He concluded thanking the organizers of this camp in taking the initiative to organize such an important event and further requested them to send proposals to make Karnataka a healthy state.

Dr. N. Sriraam, Head of Department of Medical Electronics, Chairman, IEEE EMBS Bangalore Chapter proposed the vote of thanks.





*Dr. N. Sriraam, Chairman-IEEE EMB Bangalore Chapter, Professor and Head, Dept. of Medical Electronics, MSRIT Bangalore; Dr. H. V. Ramprakash, Managing Director, Anjana Diagnostics, Bangalore; Dr. S. Y. Kulkarni, Principal, MSRIT; Sri. U. T. Khader, Honourable minister for Health and Family Welfare, Karnataka Government, Mr. Mahadeva Prasad from Rotary Bangalore High Grounds, Dr. Venkataraman, Joint Director- IGCAR Kalpakkam.*



*Dr. N. Sriraam, Chairman-IEEE EMB Bangalore Chapter, Professor and Head, Dept. of Medical Electronics, MSRIT Bangalore; Dr. H. V. Ramprakash, Managing Director, Anjana Diagnostics, Bangalore; Dr. S. Y. Kulkarni, Principal, MSRIT; Sri. U. T. Khader, Honourable minister for Health and Family Welfare, Karnataka Government, Mr. Mahadeva Prasad from Rotary Bangalore High Grounds, Dr. Venkataraman, Joint Director - GCAR Kalpakkam & Dr. Shenabagavalli, National Engineering College, Tamil Nadu*

*Dr. Sriraam Natarajan,  
Chair, IEEE EMB Bangalore Chapter*

### **IEEE-WIE NEDUET welcomes all WIE-ians to discover "All Things WIE-NED!!"**

Just follow us on our recently launched inaugural website: <http://printlinks.com.pk/wie-sb-neduet/> and keep yourself updated on the latest ventures and accolades of WIE-NEDUET.

## **IEEE Queensland PES Chapter: IEEE Distinguished Lecture on Substation Automation and Enterprise Data Management to Support Smart Grid**

In 2013, IEEE Queensland PES Chapter invited the IEEE Distinguished Lecture, Mr. John McDonald, Director of Technical Strategy & Policy Development at GE Energy-Digital Energy. John has 39 years of experience in the electric utility transmission and distribution industry. John is a Fellow of IEEE, and was awarded the IEEE Millennium Medal in 2000, the IEEE Power & Energy Society (PES) Excellence in Power Distribution Engineering Award in 2002, and the IEEE PES Substations Committee Distinguished Service Award in 2003. John is Past President of the IEEE PES, a member of the IEEE Medal of Honor Committee, a member of the IEEE PES Region 3 Scholarship Committee, the VP for Technical Activities for the US National Committee (USNC) of CIGRE, the Past Chair of the IEEE PES Substations Committee, and Chair of the Smart Grid Consumer Collaborative (SGCC) Board.

The distinguished lecture was held on 5 of August 2013 in Brisbane at Energex (distribution service provider in south east Queensland) and was well attended by 85+ engineers, researchers and power system consultants and provided an excellent opportunity for academics to interact with engineers from power industry as well as promoting the IEEE within the local power industry.



*John McDonald*

The presentation was aimed to familiarize participants with substation automation, its role in enterprise data management, and their roles in supporting smart grid, or grid modernization. The IEEE standard term, Intelligent Electronic Device (IED), was defined. The three levels of integration and automation activity in the substation were discussed. IED integration and substation automation were compared and contrasted. IED operational and non-operational data were defined. The three functional communication paths from the substation to the enterprise were shown. The enterprise virtual data mart was discussed. Also the relationship of



substation automation and enterprise data management with smart grid were discussed.

The distinguished lecture was followed by a technical workshop on smart grid on the following day on 6th of August 2013 at the University of Queensland. This workshop was well attended by 90+ power system researchers and engineers. The workshop started with a presentation by IEEE Distinguished lecture on Smart Grid: Concepts, Standards, Deployments and Lessons Learned. The presentation familiarized participants with Smart Grid concepts and solutions, including Distribution Optimization, Transmission Optimization, Asset Optimization, Demand Optimization, Smart Meters and Communications, and Workforce and Engineering Design Optimization. Smart Grid industry standards efforts were discussed, including NIST, IEEE, CIGRE and IEC. Finally, an overview of recent Smart Grid deployments was given, including the lessons learned from the deployments.

The workshop was continued with the second presentation on Smart Network Trial Project at Energex. In this presentation Mr. David Wise and Aidan Roberts from Energex (distribution service provider in south east Queensland) gave an overview of the Energex Smart Network Trial. Results from Power Line Carrier trials and low voltage network management trial were presented. The presentations were concluded with a Q&A session on practical aspects of smart grid and regulatory issues in Australia.



David Wise

Finally, Queensland PES chapter would like to thank IEEE Region 10 Conference & Technical Seminar Coordinator for their support and looking forward to next year's distinguished lecturer program.

IEEE Queensland PES Chapter Page:

[http://ewh.ieee.org/r10/queensland/v2/doku.php/chapter\\_s:pes:start](http://ewh.ieee.org/r10/queensland/v2/doku.php/chapter_s:pes:start)

*Dr. Mehdi (Daniel) Eghbal*

*IEEE QLD PES Chapter Chair 2012/13*

*Network Development & Strategic Planning Department,  
Energex School of Information Technology & Electrical  
Engineering, The University of Queensland*

## IEEE R10 Student Branches News & Highlights

### IEEE Student Branch, The University of Auckland: Job skills Seminar and the Practice Interviews

The month of July was a very busy time for the University of Auckland Student Branch committee as we prepared for our two main events of the year the Job Skills Seminar and the Practice Interviews. Both of these events turned out spectacularly giving the IEEE members at the University of Auckland a good insight into preparation for Job applications and Job Interviews. These two events are primarily focused on the professional development of our IEEE members so that they have the chance to learn and develop their skills in a practical and informative way.

#### Job Skills seminar

Job skills Seminar was held at the University of Auckland Engineering Building on the 12th of July. We had two experienced speakers come in to talk to members about how to prepare their CV's for the upcoming Internships and Graduate job openings. Our first speaker, a representative of the University of Auckland's Careers development gave our members a great deal of insight into developing their CV's for particular job applications. From picking a particular job to determining what you should include in your CV, the members interactively had the opportunity to ask questions and learn from the seminar. Our second speaker, the Graduate Recruitment Manager of Fonterra gave our members the Industry insight into what interviewers look for during Graduate Recruitment and helped give our members the adequate tools to prepare for their upcoming interviews. Overall it was a great and insightful event for our members.

#### Practice Interviews

Our annual flagship event, the Practice Interviews was held on the 19th of July in the University of Auckland Business School. With the participation of 14 companies this year with 21 representatives and over 50 students, the Practice Interviews was the most successful event of this year. Like speed interviewing, we offer members the opportunity to participate in short 15 minute interviews with industry recruitment company representatives. Each participant gets the chance to have individual 5 minute feedback sessions with their interviewers to learn and improve their performance during the Interview process. After the interviews we had an elegant and eventful networking event in the Excel Café. With wine and food for all the participants to indulge in and good companionship to

spark up interesting conversations and meet industry contacts, all our members had a great evening. It was a great event and it will definitely prove to be better in the years to come.



*The Student Branch Executive Team at Practice Interviews*

*Nilookie Theekshani Homer*

*Chairwoman of the University of Auckland IEEE Student Branch*

## Workshop “ACCELEROBOTIX”

Department of Electronics and Communication Engineering and KCE IEEE-SB conducted a two days robotics workshop “ACCELEROBOTIX” from 30.08.2013 to 31.08.2013 at Kathir College of Engineering in association with Technophilia Systems, Mumbai. Technophilia Systems selected the institution as zonal centre for International Robotics competition and workshop series. Technophilia systems represent India at ROBO GAMES, USA “World's largest Robot Competition-Guinness Book of Records”

There were 76 students from various disciplines and from various technical institutions have been participated and 4 students in a group were provided with a robot kit. The Inauguration of the workshop was on 30.08.2013 - 09.30 am in the seminar hall. Prof. S. Prabakar, HOD/ECE, KCE, welcomed the gathering. Presidential address was delivered by Dr. P. Vijayakumar, Vice Principal, KCE, upon the importance of Robotics in the present world and the role of various departments of engineering in the existence of a Robot.

The Resource person from Technophilia Systems was Mr. Amey Bhophi, who has handled the sessions and provide hands on training to the participants. Subsequently the zonal level competition was conducted on the final session of the second day and three teams of students were selected and they were provided with Certificate of Merit and an entry to the National level Robotic Competition to be held during March 2014 in IIT Bombay, Mumbai. The workshop ended with a vote of thanks by Mrs. N. Vijayalakshmi, AP/ECE and Mr. M. Manikandan IEEE SB-Chair Mr. S. Yashodharan

IEEE SB-Treasurer has also been participated in the events.



*ACCELEROBOTIX Workshop inauguration. From left Prof. S. Prabakar, HoD, ECE, Mr. Amey Bhophi, Technophilia Systems, Mumbai and Dr. P. Vijaya Kumar, Vice Principal, KCE*



*ACCELEROBOTIX Workshop Session*

*Reported By:*

*Prof. S. Prabakar, KCE-IEEE SB, Counsellor*



## IEEE-ENVISION 2013

“IEEE ENVISION 2013”, a project pitch competition was hosted by IEEE NEDUET SB 2013 for equipping students with technical and presentation skills. The brainchild of this event was the Chairperson, IEEE-NEDUET SB, Bint-e-Zohra. Thanks to our proud sponsors, judges and guests that ENVISION 2013 was a success. IEEE-SB NEDUET truly marked history through this successful event and has proved once again as the pioneer of hosting multi-dimensional activities.





*Bint-e-Zohra, Chairperson IEEE NEDUET, Khwaja Nabeel Vice Chair and Umair Asghar Branch Representative IEEE NEDUET, announcing results of IEEE ENVISION 2013.*

On June 20th 2013, a number of well-renowned speakers were invited for the training Session. We had Mr. Immad-uddin, Ms. Nausheen Ishtiaq and Mr. Syed Raheel Akhtar, who described how to advertise one's product and present it well. Later, we had Dr. Kashif Mehmood, a double Ph.D. holder and a nominee for the award of President's Pride of Performance, Mr. Faisal Karim and Mr. Danish Zahoor who gave rapid training on stage etiquettes and presentation skills. They highlighted the behavior of a novice interviewee and their lacking attributes. The day ended with Mr. Subhan Mirchawala whose enlightening training was based on conflict management.

On June 24th 2013, the Elevator Pitch was quite exciting and all the teams were ecstatic. Our esteemed judges were Mr. Raheel Akhtar who has extensive experience of 15 years in public speaking and Ms. Areej Kamal, a NED Graduate and Winner of the P@sha ICT Award. A total of 31 teams pitched for their ideas to qualify to the Round two.

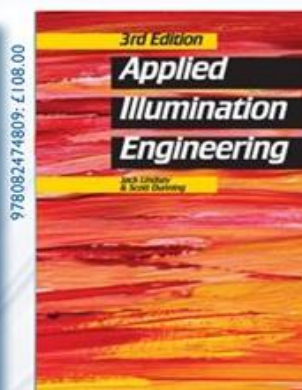
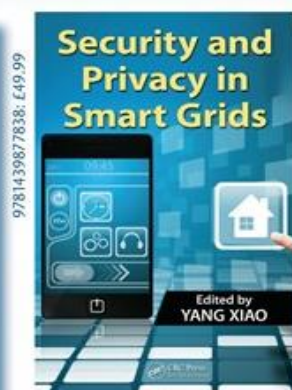
On June 25th 2013, the creative endorsement, teams all set to endorse their projects came up with some outstanding self-made videos, pamphlets and brochures along with some stage acts or speech timed between five to six minutes. Mr. Faisal Karim from Geo Television Network and Mr. Abdullah Jamal from CNBC Pakistan formed the jury for the day.

On June 26th 2013, the Perceptive Presentation, qualified teams had to present their Executive Summaries to further prove the practicality of their projects. The Jury members for this final stage were Mr. Talha Bhatti, a NED graduate working as an Executive Engineer at Shan Tech. and Mr. Abdul Samad, Manager System Control and ELV, declared the idea of "Piezo-Electric tiles" as the winner of IEEE-ENVISION 2013.

For more information, please visit:  
<http://sites.ieee.org/sb-neduet>

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## IEEE R10 GOLD News & Highlights

### IEEE GOLD Bangalore: Professional Workshop Series – Objective C & iOS App Development

IEEE GOLD Bangalore has been in the forefront in conceptualizing and organizing events for the benefit of young professional members since its inception. In the present times, IEEE GOLD Bangalore felt the need for practical and do it yourself based workshops targeted towards the young technology professionals which would add and enhance their skill set in their professional career.

With this objective in mind, a model was worked upon through which the IEEE GOLD Bangalore would collaborate with the technology companies and impart workshops on latest technologies. As part of this series of workshop, a workshop on iOS and Objective C Application Development was organized in association with Exilant Technologies Pvt Ltd at Bangalore, India from August 24th to August 28th 2013.

IEEE GOLD Bangalore was overwhelmed by the response and call for registrations. A total of 260+ members registered from across India Council. An online quiz was conducted to choose the best fit participant, after which 20 participants were given an opportunity to be a part of the workshop. Selected participants had come from varied background such as senior industry professionals, academicians, entrepreneurs and students.



Session by Vivek, IBM

#### Topics covered as part of the workshop

- Introduction to Mac OS X & iOS Architecture.
- Introduction to Frameworks & Cocoa, Xcode-Objective C
- Functions, Constructors & Memory Management
- Utilities & Collections & Data Structures
- Threading & Exception Handling
- Protocols, Categories, Properties, KVC
- Helper Objects: NSTableView, Delegates & DataSource
- Bindings, KVC, KVO
- NSTableView with NSArray Controller, MVC
- Connections, Creating First iPhone application
- Core Location, Map Kit and text Input
- Sub Classing and UI View
- View Controllers
- Notification and Rotation/Orientation
- Debugging Techniques
- Crash Analysis
- Use of Instruments
- App distribution process on App store

The closing day event was presided over by Mr. Ravikiran, CEO, Teritree and Vice-Chair of IEEE Bangalore Section and Mr. T G Srinath, Global Head - Sales and Marketing, Exilant Technologies Pvt Limited. While addressing the participants, Mr. TG Srinath mentioned that learning has four phases: Unconscious Incompetence; Conscious Incompetence; Conscious Competence; Unconscious Competence.

He made the participants realise that each of us would start from the first phase of Unconscious Incompetence and reach a phase of Unconscious Competence where all the efforts in training would be fruitful.

Participation certificates were distributed and feedback from the participants was elicited.



*IEEE GOLD Bangalore Team with participants*

*Srikanta Patanjali,  
Master Student at Hochschule Hof, Germany  
IEEE GOLD Bangalore*

## **IEEE GOLD Affinity Group, Kerala Section: Eyes Free Science Camp**

In India, and especially in Kerala, education authorities and system deny admissions for the visually handicapped students to Science subjects in Higher Secondary even though they obtain A+ scores in their 10th grade examinations. With the objective to empower and encourage such students, an Eyes Free Science camp was organized by Chakshumathi supported by Allianz, Technopark Thiruvananthapuram and IEEE Gold Affinity Group of the Kerala Section, which renewed confidence on why not such students study science and mathematics.

During the 10 day camp, the IEEE GOLD AG of Kerala took up the challenge to empower such students by giving the campers a chance to make windmills and see how it works. Prof. V. K. Damodaran, a lead trainer comments "two teams of these visually impaired students made their model 10 minutes earlier than the TISP programme of school teachers conducted few months ago. Here the barriers are in the mind of sighted, not in the ability of these smart blind children".

The participants were given an opportunity to camp overnight at the Jawaharlal Nehru Tropical Botanical Garden & Research Institute, located at the foot hills of Sahya Mountains. Students had a firsthand experience to learn on various kinds of plants and trees through, touch, smell and feel. Campers underwent intense mobility training in the camp and tested their mobility skills at the trekking paths of the Garden, climbing uneven slopes, steps and crossing single log footbridges across streams. Expertise in mobility and technology happens to be the keyword to success for the visually challenged in the present day world.

In the ten days camp along with interesting science and mathematical lessons, students were also trained thoroughly in computers, production of Digitally Accessible Information System (DAISY) books, Chess and Swimming. A world record was broke at the camp by the camp's youngest participant Manav Sujith (12), when he converted a Malayalam version of Leo Tolstoy's book "how much land does a man need" to a DAISY book.

The best participants were presented with Angel Daisy players. This year, 8 students of the 1st Eyes Free Science Camp completed their Class 10 examinations with excellent grades in their Science and Mathematics exams. 5 of these 8 participants have opted to take science in their higher education, especially on Computer Science. The major reason de-motivating these students from science learning is their school laboratories which are not accessible.



*Prof. V. K. Damodaran addressing the gathering*



*Students being guided in making the windmill.*

*Compiled by  
Sabarinath Pillai  
Secretary, Kerala Section  
For IEEE Kerala Section*

## ANNOUNCEMENT

There are two mistakes in June issue that need to be corrected.

First, the picture of the Award of 2011 R10 Distinguished Small Section Award presented at the 2013 Region 10 Annual Meeting was misplaced. Please see the correction as follow.



*2011 R10 Distinguished Small Section Award presented to the representative of Hiroshima Section by R10 Director*

*2011 R10 Distinguished Small Section Award presented to the representative of Hiroshima Section by R10 Director*

Second, in the article “GOLD Affinity Group, New Zealand North” in June issue, the title of Dr. Nirmal Nair seems to have been incorrectly written. It currently reads:

*energy solutions. We would like to thank Loreen Ozolins – a very active and senior IEEE member, and **Dr. Nirmal Nair – Past Chair of the IEEE Power and Energy Society (New Zealand North)**, for representing the Village as their two Chiefs. The teams’ proposed solutions impressed the Village Chiefs, in both technical and practicality aspects.*

While, in fact, he is the current **Chair of the PES in New Zealand North**. I would greatly appreciate if you would be able to update the document. I believe it will mean all the difference to him.

Thank you for all of your support to IEEE R10 Newsletter.

Ruey-Beei Wu,  
Editor, IEEE R10 Newsletter

Erica Chai  
Assistant editor, IEEE R10 Newsletter

### Congratulations, you're an IEEE Member!

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If you are unable to attend the webinar, you may also listen to a previously recorded webinar session, please register at:

<https://cc.readytalk.com/cc/playback/Playback.do?id=g1ymsj>

Hope you enjoy all the benefits that IEEE brings to you!

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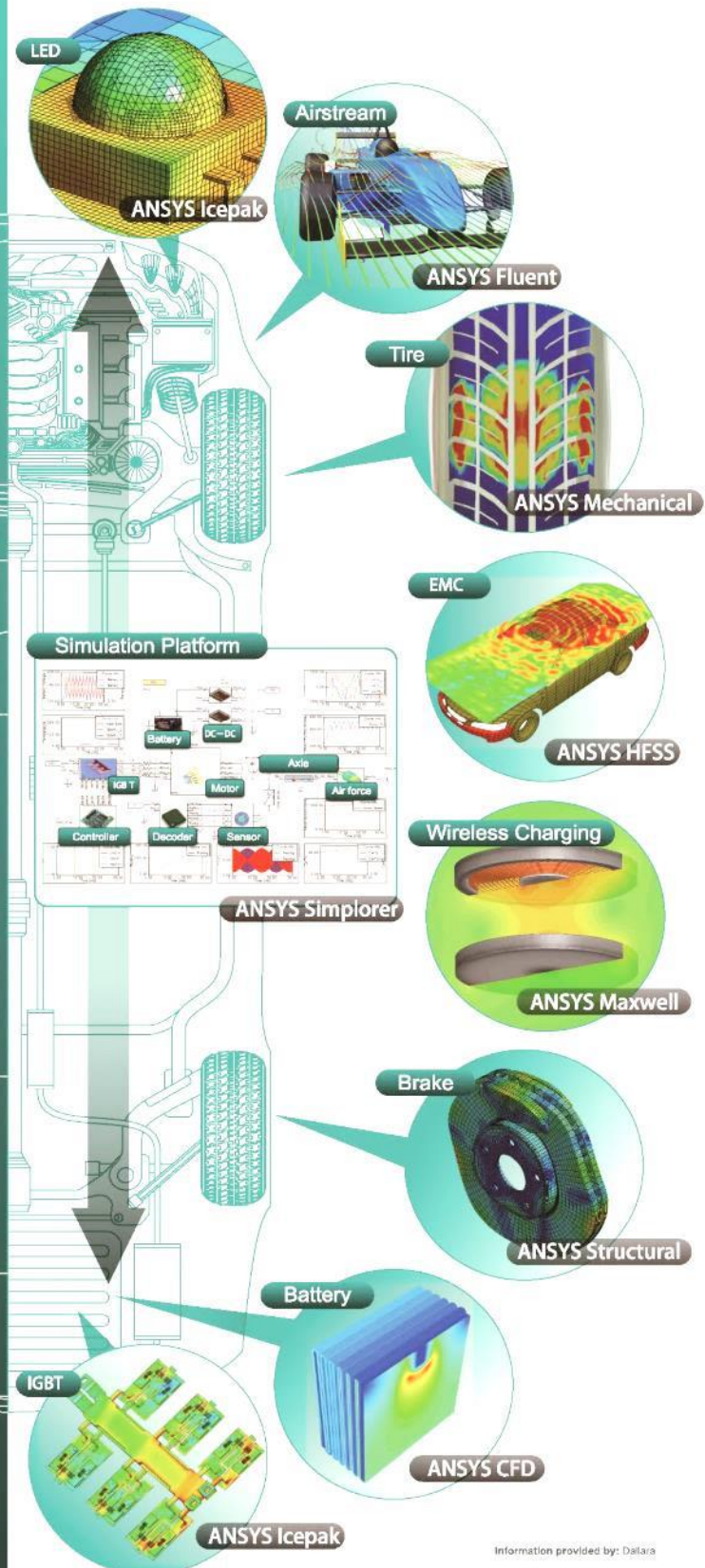
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