THE IEEE REGION TEN NEWSLETTER
March 2012

Editor: Zia Ahmed

IEEE Life Membership in Region 10

In 2007 I was invited by Regional Director Professor Janina Mazierska to be the inaugural Region 10 Life Member Coordinator. This office also carried with it the responsibility of being the Chair of the Life Members Committee of Region 10.

In 2009 I was succeeded by Jung-Sun Kim under Regional Chair YJ Park. The current Regional Chair, Lawrence Wong, elected not to continue this office and this article is not intended in any way to be critical of that decision. With the current fiscal restraints in the Region I could easily have made the same decision, but as a Life Member maybe I would not have.

In 2008 I was elected to the IEEE Life Members Committee (for a 2 years term) and found this a very interesting experience. Many projects are funded annually worldwide by the IEEE Foundation and the IEEE Life Members Fund. One with which I became very familiar was the establishment of a radio telescope in Orlando, Florida for the use of school children as radio telescopy was part of the local school curriculum. This radio telescope was located at the Orlando Science museum where it was accessible to all school students visiting there on educational excursions. This project has been widely reported elsewhere in IEEE literature.

In many ways my appointment in Region 10 was, if anything, ahead of its time. One of the criteria for Life Membership of the IEEE is to have 35 years of membership of the IEEE. For most engineers their working lifetime is generally about 40+ years. Some change vocations into corporate business, or international banking, (and in the case of China into government) although in most western based nations politics is generally the province of lawyers. For those who stay true to the engineering cause it sometimes becomes increasingly difficult to keep up with all the technological developments as time goes by.

35 years can be a very long time. The countries of Oceania were recognised sometime in late 1950s/early 60s under the title of "the rest of the world" and became Region 10 in 1967. New South Wales Section, for example, celebrated its 35th birthday just a few years ago, and for most IEEE members the prospect of Life Membership is something that comes upon you after your 60 year birthday (IEEE Life Members need to be at least 65 years of age).

When this time scale is considered it gives some understanding to the current situation in Region 10 where the latest statistics show a total of 255 Life Fellow, 257 Life Senior Members and 470 Life Members in the Region and only four Sections (Bombay, New South Wales, South Australia and Tokyo) have IEEE Life Members Affinity Groups.

It is the fashion to-day to accept the idea that this is "a young person's era", and that anything "old" is for recycling. Actually this is far from the truth and many developments to-day are revisions of what has gone before.

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IEEE Region 10 EXCOM 2012

Unfortunately, we have not yet perfected the techniques to recycle humans in too and so all that we can do there is get the best benefit we can from those that are still around. Maybe the long sought after 'bionic Electrical Engineer' should be a major research field for the IEEE.

I make a plea to all Sections in Region 10 to take head of this situation and nurture your Life Members. There is a wealth of knowledge, experience and resources just waiting to be invited to help. There is an old saying which I think is appropriate in this situation:

"Although there may be snow upon the masthead, There's fire in the boiler yet"

This year the Life Members Committee has arranged a technical visit to Japan (*see December 2011 issue of this newletter for details*). Visits of this type are now becoming a feature of international Life Membership and are being enjoyed by many IEEE Life Members. Get your Life Members involved with Section activities and get them to enjoy their IEEE Life Membership.

As I sit here writing this article I am aware that I am 76 years old and, God willing, I hope to be doing the same thing in over 10 years time.

Graeme Gwilliam
Life Member, New South Wales Section, Australia

IEEE R10 News and Highlights

The Region 10 Executive Committee Meeting 2012

The R10 EXCOM Meeting was held in Colombo on 8 January 2012. The Excom meeting is an annual event where team members share knowledge of past activities and take the opportunity to plan for the New Year.

Lawrence Wong, Region 10 Director started the meeting by thanking outgoing R10 Excom members Zhisheng Niu (R10 Conference & Technical Seminar Coordinator), Amarnath Raja (R10 Humanitarian Technology AG coordinator), Deepak Mathur (R10 Sections Congress 2011 Representative), and Om Prakash (R10 Student Representative). Lawrence welcomed Borhanddin Ali for assuming the role of R10 Conference & Technical Seminar Coordinator and Aby Kurian for taking up the role of R10 Student Representative. Deepak Mathur will take over Amarnath Raja as the 2012 Humanitarian Technology Coordinator.

Lawrence also updated that IEEE has exceeded the 2010 membership size to reach 415,989 in 2011. R10 continued to grow strongly amidst the global economic recovery to reach 97,393 members. It represents a 7.5% growth. Currently, R10 consists of 57 Sections, 17 Sub-sections, 6 Councils, 469 Chapters, 837 Student Branches, 138 Student Branch Chapters, 27 GOLD groups, and 24 WIE groups. R10 is the largest in terms of graduate students, undergraduate students, and total membership. R10 is second in terms of higher grade membership, behind R8.

The Region did not do as well in 2011 when it comes to election voting rate. The 2011 voting rate of 11.1% fell short of 2010 voting rate of 19.9%. Sections with the highest voting rate are (1) North Australia @ 18.8%, (2) Beijing @17.5%, (3) Vietnam @ 16.0%. Lawrence encouraged all Region 10 EXCOM members to work with Sections to improve the voting rate.

Lawrence summarized the key highlights in 2011.

- Implementing rigorous petition validation process for OU formation
- Approved 2nd TENCON series
- POCO in July 2011 in Beijing, China
- 1st R10 Student/WIE/GOLD Congress in Auckland, NZ in July
- 1st R10 Webcast on membership development in November 2011
- Two new IEEE-HKN Chapters in R10: University of Hong Kong & Bharati Vidyapeeth's College of Engineering at New Delhi, India
- R10 emerged a big winner in 2011 Xtreme Competition. 5 of the top 10 winners come from R10. 1st was from Thailand and 2nd was from Sri Lanka.
- 70 new Fellows from R10

However, Lawrence is very concern on the poor student retention rate. It is the lowest among all the regions and he called the Membership Development Chair, Hang Bong Kang and Student Activities committee, Takao Onoye and Aby Kurian to develop clear projects to improve the existing situation.

Lawrence articulated IEEE's vision and mission, and use them as the basis for the region's goals for 2011-2012. Lawrence identified the four goals as (a) to bring greater value to members, (b) to empower Sections & Chapters, (c) to strengthen inter-OU collaboration, and (d) to launch new initiative programs.

All EXCOM members presented their 2011 goals and plans. The face-to-face meeting was very fruitful for the team to finalize their 2012 work plans. The preliminary budgets were also discussed and prepared to be presented at the R10 Annual General Meeting in Kolkata, India, from 3 - 4 March 2012.

Darrel Chong
IEEE Region 10 Secretary

IEEE Region 10 Executive Committee 2012

R10 Educational Activities in 2011 & for 2012

This article describes the summary of R10 Educational Activities in 2011 and presents the objective and activities in 2012.

In 2011, EAC Support Fund 2011 was successfully awarded to 18 educational activities projects (from 6 countries and 12 Sections) focused on the technical symposium/workshop, soft skill development, and educational outreach. All projects were accomplished by December 2011. The overall supporting budget for EAC Support Fund was USD 4,150.

There were 6 projects in pre-university, outreach education, and continuing education:

1. Engineering Learning for Primary Students, Hong Kong Section
2. Develop Higher Thinking Skills, Hyderabad Section
3. Continuing Education Congress, Kerala Section GOLD
4. Ignite Blaze, Kerala Section - Student Branch Chengannur
5. Student Awareness Contest, Pune Section
6. IEEE Extravaganza, Sri Lanka Section

There were 3 projects in soft skill development:

1. Soft Skill Development, Calcutta Section
2. EMPOWER, Kerala Section - Student Branch Government Engineering College
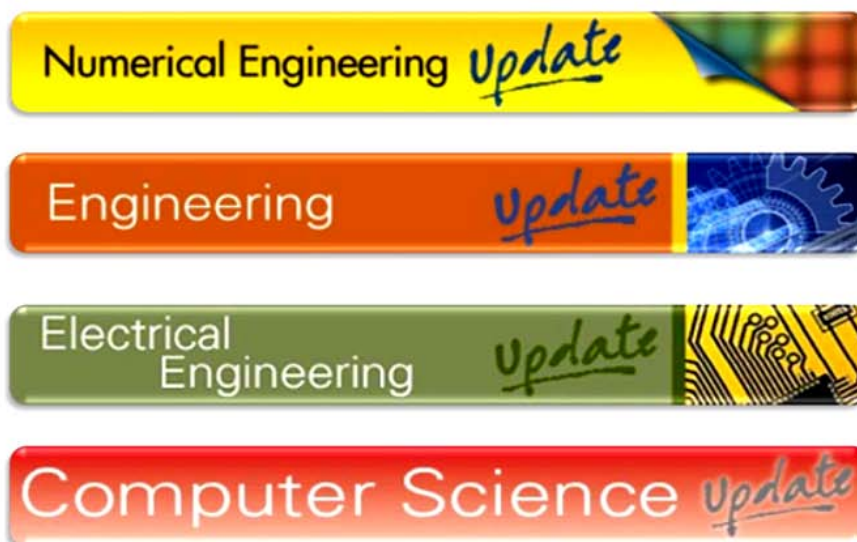3. "M Power", Kerela Section - Student Branch Chengannur

There were 9 projects for technical symposium/seminar:

1. Engineering Colloquium, Bangalore Section
2. "i.fest 2011", Gujarat Section
3. "TEDx-CET", Kerala Section - College of Engineering (Trivandrum)
4. Electronics Weeks, Kerala Section - College of Engineering (Trivandrum)
5. "MELANGE", Bombay Section
6. "IEEE Lecture day in LTE development", Indonesian Section
7. "Smart IT", Seoul Section
8. "Bridging the gap between academia/industry/ volunteer" Islamabad Section
9. "IEEE Volunteer workshop" Islamabad Section

In addition, TISP (Teacher in Service Program) has been continuously promoted. R10 supported two TISP and pre-university outreach activities in Thailand; one for "Faculty of Engineering Camp (FE Camp)" at Chulalongkorn University to give knowledge of engineering study for high school students and second for "Photonics Inspiration" organized by Photonics Chapter. The IEEE Educational Activities, IEEE Hyderabad and Bangalore Section GOLD groups hosted a TISP training workshop on 7 - 8 May 2011 at Hyderabad, India. The event was held for volunteers in the southern India area who are interested in working with schools and school systems to increase the level of technological literacy of local pre-university educators and their students. To continuously promote and expand TISP activities in India, R10 has approved the set up of IEEE TISP India Ad Hoc Committee under R10 Educational Activities in October 2011. The ad hoc committees shall establish a sustainable working model for pre-university Educator training across five Sections in Southern India: Madras, Kerala, Hyderabad, Bangalore, and Mumbai and

also to promote the establishment of Section level TISP committee for promoting workshops and other activities. For 2012, a TISP training workshop is planned to take place around the coming July in Australia.

For 2012, the main objectives of R10 Educational Activities are to:

- Encourage and support the implementation and the awareness of educational activities projects in R10 through R10 EAC Support Fund assist on the accreditation system for international benchmark;
- Initiate R10 EA Section Chairs meeting and EA special track in TENCON to enable knowledge sharing and set the EA in various Sections the same pace and
- Identify and assist new countries/Sections for TISP workshop.

Several projects will be carried out to fulfil above objectives.

The continuation of EAC Support Fund 2012 is to help initiate and motivate new projects related to educational activities in R10 by providing partial support fund together with possible matching support fund from Section and other sources. Call for EAC Support Fund 2012 is announced in this newsletter, please see page 5. This year, R10 Educational Activities will award 2 TISP, 2 Educational Outreach, 2 Continuing Education/Professional Development and 5 Technical workshops related to educational activities. Seminar related to accreditation is also planned.

Another new initiative is to provide forum for Educational Activities for Section Chairs in R10 to enable knowledge sharing and discussions. This could be either face-to-face meeting and/or teleconference/webinar. These meeting and knowledge sharing will help encourage Sections to realize the common goal and set the same pace among Sections. R10 will also encourage Sections to have dedicated Educational Activities Chair. R10 Educational Activities has planned 1 day EAC Section Chair workshop and Educational Activities Special Track at TENCON 2012 event in Philippines.

Regarding TISP training workshop in 2013, R10 Educational Activities will identify and assist those Section(s) that has not established TISP to prepare TISP workshop proposal supported by EAB.

To ensure the smooth implementation of education activities, 2012 Education Activities Committee has been set up to review the proposal, monitor, and evaluate the activities taking place this year. The committees consist of Supavadee Aramvith (Chair), Tuptim Angkaew (Advisor), Proadpran Punyabukkana (Advisor), Amarnath Raja (member), Takao Onoye (member), Takako Hashimoto (member), Rowena Cristina Guevara (member), and Ranjit R Nair (GOLD representative).

Supavadee Aramvith
Chair, IEEE R10 Educational Activities Coordinator

TENCON SPRING
Region 10 Introduces a New Conference

It was decided in R10 Meeting in San Francisco last year that Region 10 shall introduce a new version of TENCON conference, called TENCON Spring, to supplement the presently run general TENCON series. TENCON Spring shall be held in spring season of northern hemisphere, and shall be thematic. The theme is open to proposals but must be relevant and current. Some examples are Green Sustainable Technologies, Humanitarian Technologies, Social networks, etc. Papers' scope can be multidisciplinary, and shall address 1 or more aspects of the selected theme.

The winner shall be selected based on the strength of the proposal in terms of its theme, timeliness, local team, and of course the suitability of the location in terms of accessibility, costs, weather, and other cultural and tourist attractions.

I would therefore like to open an invitation to Sections to bid for this conference.

Your proposal should provide information on the following:

a) Venue of Conference, City, etc
b) Dates
c) Theme, Focus and Scope of Conference
d) Info on Hotel such as Hotel rates, star-rating, availability, etc.
e) Fees (Member, Non-member, Student member, Student Non-member)
f) Accessibility to the City by Air
g) Preliminary Budget
h) Other relevant information (photos of city and venue, if possible)
i) Attractions of the location.

Important Dates:
Proposal submission: **30th March, 2012**.
Decision: 15th April, 2012.

Please email your proposal to Borhanuddin Mohd Ali (borhan@eng.upm.edu.my) by submission deadline of 30 March 2012.

Thank you and I look forward to your proposal.

Borhannudin Mohd Ali

R10 Coordinator, Conferences and Technical Seminar

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

r10-ecn@ieee.org

Please send photographs in JPEG format in separate files

The R10 Newsletter schedule for 2012

Publication Date	Deadline for submissions
June 2012	18 May 2012
September 2012	17 August 2012
December 2012	16 Nov 2012

Bids Invited for R10 EAC Support Fund 2012

R10 EAC committee invites you to submit proposals to bid for educational activities support fund.

This year, the Education activities will be awarded for the following projects.

- TISP (Teacher in Service Program) 2 projects (up to USD 500 per project)
- Educational Outreach 2 projects (up to USD 500 per project)
- Continuing Education/Professional Development 2 projects (up to USD 500 per project)
- Technical workshop related to educational activities 5 projects (up to USD 200 per project)
- Accreditation Seminar 1 Project (USD 500)

In the proposal, please specify:

- Name of Chapter/Section:
- Name of contact person:
- Name of event and Type of the project to be submitted
- Date of event:
- Objective of the event:
- Benefits to members/community:
- Number of participants: members/non-members
- [Mandatory requirement] Proposed budget (expected support from R10 and expected support from Sections/other sources)

Proposal will be accepted in A4 PDF format only. Please specify if this is the new project or the continuation of project awarded in the past years. The project must be implemented in the timeframe between May – October 2012.

Extended Deadline: April 15, 2012
Notification of Decision: May 7, 2012

Please send your proposal to the e-mail below:

Supavadee Aramvith
Chair, R10 Educational Activities Coordinator
Email: Supavadee.A@chula.ac.th

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Call for Submissions

R10 Student Branch Website Contest

The IEEE Region-10 website contest is a yearly opportunity for Student Branches in Asia Pacific to interact, compete and learn from one another.

Motivation behind this Website Competition

- Electronic communications among IEEE members has been one of the IEEE main concerns during the recent times.
- Student Branches are visible to the world and are just one click away
- It is very important for the IEEE Student Branches to communicate with their student members and other Branches by electronic means. Having a Student Branch Website is a good tool to achieve this goal.

R10 Website Contest (Rules and Guidelines): The judging criteria can be found at IEEE Website:

(http://www.ieee.org/membership_services/membership/students/awards/site_contest_rules.html)

1st Prize winner will automatically stand a chance for the IEEE Student Branch Website Contest organized by MGA at the global level.

At stage 1, each Region holds its own regional website contest. (This stage is the Region-10 Website Contest.)

At stage 2, all Regions including Region-10 submit the top entry to the IEEE Student Branch Website Contest.

The Region-10 Website Contest is open for submission. Please submit "Request for Participation Form" from interested Student Branch by **April 10, 2012**.

R10 Website Contest Winning Categories includes

- 1st Prize: US$500 + Certificate + Qualify for Inter-regional Website contest
- 2nd Prize: US$350 + Certificate
- 3rd Prize: US$200 + Certificate
- Best New Comer Award: Certificate
- Merit Award (for top 10 teams): e-Certificate

＊Monetary award for this contest comes from Region-10.

Criterion 1: Content

Example: Contact information for Branch administration, each page has contact and date information, Information on Branch and related (Department, Section, etc.) activities, No copyright violations, reasonably proper grammar, spelling, and composition, Solid multi-lingual support, Content is proper for Student Branch audience reasonably completed.

Criterion 2: Navigability

Example: No under construction links, All on-site links are working, Off-site links are fairly stable, Good logical structure used in the site, Easy to find information, Logical and tasteful use of keywords as hyperlinks, Judicious use of hyperlinks, use of navigation tools (search engines, navigation bars, site maps).

Criterion 3: Originality

Example: Unique and innovative content on the site, Unique and innovative presentation of standard material on the site.

Criteria 4: Overall Presentation

Example: Good layout of individual pages, Discrete, tasteful backgrounds, Discrete, tasteful, and useful scripts, Useful audio and/or video, Useful images and appropriately presented, Use of tables and other HTML elements as appropriate.

Criteria 5: Portability

Example: Web site supports text-only browsers, No use of fixed elements in Web pages, Page design considers variable screen size, Browsing the site locally has been possible.

Criteria 6: Load Time

Example: Image sizes are not excessively large (or alternative high bandwidth. Web site is present), Reasonable amount of JavaScript, animated GIFs, images, etc. are on each page, Script/multimedia execution time (if relevant)

This is a golden opportunity for Student Branches to interact, compete and learn from one another, so please submit your nominations as soon as possible (last date April 10th, 2012). I strongly suggest all the Student Branches who

has their own IEEE Student Branch Website to register and participate in R10 Student Branch Website Contest.

Please submit your nominations online at IEEE Region 10 Website Competition Online Submission Form (http://www.r10sac.org/activities/competitions/website/register.html).

Contact R10 SAC Prof. Takao Onoye atonoye@ist.osaka-u.ac.jp or R10 RSR Aby Kurian at abykurian@ieee.org for any further details or please refer to:
http://www.r10sac.org/activities/competitions/website.html

Aby Kurian

R10 Student Representative

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Call for Project Proposals

Bids Invited for the IEEE Region 10 Humanitarian Technology Activities

IEEE Region 10 is encouraging to carry out Humanitarian Technology Activities in its Sections for the benefit of underserved. IEEE also encourages forming a Special Interest Group on Humanitarian Technology (SIGHT) in Sections to take up Humanitarian Technology activities. Kindly refer http://ieeesight.net for details on SIGHT and its formations. All the members forming SIGHT are required to register online at http://ieeesight.net.

IEEE Region 10 is inviting proposal(s) on Humanitarian projects from SIGHTs of respective Sections of Region 10 to promote HT activities. Region 10 will provide support fund to carry out the project for underserved community in partnership with respective Sections.

Following are the salient features of R10 supported HT activities:

- R10 will provide 75% of the cost of the project or a maximum of US$750 in each case. It is expected that 25% of the cost of the project be borne by the respective Section.
- R10 will provide support to eight selected projects.
- Such projects are expected to be completed in 2012 (Report to be submitted by 15 Dec 2012). The project should clearly outline the aspect of scalability and self sustainability.
- The project should be proposed by the SIGHT of that Section and duly endorsed by the Section Chair.
- The proposed budget should clearly mention the requirement of the fund from R10, support from the Section and from other sources (if any).
- The proposal for the project should be submitted in the following format:
  – Name of Project:
  – Name of Section:
  – Name of Section SIGHT Coordinator:
  – Name of Project leader:
  – Names of project team members:
  – Objective of the project (Maximum 200 words):
  – How the project will serve the underserved (Maximum 500 words):
  – Project outline (stating what form of technology being used):
  – How the project will be sustainable (Maximum 500 words):

– Proposed date of completion of the project and submission of report: dd/mm/yyyy (should not be later than 15 December 2012)
– Total fund required:
– Support from R10: (75% of project cost or US$750 whichever is less)
– Support from the Section: (25% of project cost or more)
– Support from any other source (if any):
– Endorsement by Section Chair: The project has got approval and support of Section as detailed above. (Signature of the Chair)

Please send project proposals to deepakmathur@ieee.org and cc. ieeeapo@pacific.net.sg.

Last date of receiving project proposals is 20th April 2012.

Deepak Mathur
Chair, R10 Humanitarian Technology Activities

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Winning Sections in Region 10 for Highest Voting in IEEE Election 2011

Dear IEEE Members,
Thank you for participating in the 2011 IEEE Elections. Peter Staecker has been voted in as the 2012 President-Elect.

Our Region's returned ballot was 11.10% and the IEEE's returned ballot was 12.88%. Every year Region 10 provides an incentive for Sections to encourage its members to vote.

I am pleased to announce the 3 Sections for its highest voting percentage amongst the 57 Sections in Region 10. They will receive US$500, US$300 and US$200 respectively.

- 1st Highest Voting percentage: Northern Australia Section (18.8%)
- 2nd Highest Voting percentage: Beijing Section (17.5%)
- 3rd Highest Voting percentage: Vietnam Section (16%)

Congratulations to the 3 Sections for its efforts in helping to raise the returned ballots for our Region.

Yours Sincerely,

Lawrence Wong, Region 10 Director 2011-2012

R10 WIE on Facebook

R10 WIE Facebook page has been opened and R10 WIE website has been updated.
Please have a look at the following pages:
   http://www.facebook.com/IEEE.R10.WIE
   http://sites.ieee.org/r10-wie/
Please encourage WIE AGs in your Section to post and share information through above pages.
Warm regards,

Takako Hashimoto

R10 Industry Relations Winners

At the 2011 AGM of IEEE Region 10 held at Yogyakarta following objectives were set by Industry Relations Chair for his committee:

1. To promote IEEE activities of the Industry.
2. Enhance Academia - Industry Collaboration.
3. Recruit more members from Industry.
4. Create benefits for academia-industry partnership to achieve innovations.
5. To finalize 2011 Awards for the Committee.

The Committee consists of Rajendra K. Asthana (Chair) with Abbas Bigdeli (Australia), Dr. Lekha Chaisorn (Singapore), Errol Chopping (Australia), Bingli Jiao (China), Jhing-fa Wang (Taiwan), Park Yung Gook (South Korea) and T. Ravindran (India) as committee members.

The committee analysed 2011 membership of Region 10 and segregated into members from Industry & Academia. Based on this analysis following Awards were finalized:

1. Section recruiting **m**ost **m**embers from **i**ndustry (MMI) was selected for MMI Award and
2. Section where **m**embers from **i**ndustry **i**ncreased **m**ost (MIMI) was selected for MIMI Award.

Results for 2011 Awards are as under:

MMI Award: Beijing Section

MIMI Award: Bangladesh Section

Congratulations to Beijing & Bangladesh Sections.

Awards were presented during the awards presentation ceremony at the IEEE Region 10 Annual meet Dinner Banquet at Kolkata during March 2012.

Rajendra K. Asthana (asthana@ieee.org)
Chair, R10 Industry Relations Committee

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THE IEEE TENCON 2011

WOMEN IN ENGINEERING SPECIAL TRACK
AND PANEL DISCUSSION

At IEEE TENCON 2011, a technical oral presentation and a WIE Panel Discussion was conducted as a special track for Women Engineers organized by IEEE Indonesia Section and IEEE Region 10 Women In Engineering. The event was held at Inna Grand Bali Beach Hotel, Sanur, Bali on 23rd November 2011. The aim and objectives of the event were to gather women engineers in a special track in order to share their technical expertise and supporting other women engineers.

There were 23 submitted papers and out of 17 papers accepted for oral presentation, 12 papers were presented. Three papers were also accepted for poster presentation. The technical presentations were very inspiring. The audience and participants were enthusiastically involved in a good discussion and were able to learn from each other. The winner of WIE Track Best Paper Award of IEEE TENCON 2011 was Ms. Chetana Hegde from India.

The panel discussion was moderated by Prof. Basabi Chakraborty from Iwate Prefectural University, Japan. The panellists included: Prof. Janina E Mazierska from James Cook University, Australia, Prof. Takako Hashimoto from Chiba University, Japan, Dr. Supavadee Aramvith from Chulalongkorn University, Thailand, and Prof. Riri Fitri Sari from University of Indonesia, Indonesia. The main objective of the panel discussion was to allow all participants and panellist with similar background in engineering to share their thoughts and perspectives on the challenges and actions needed to enhance the quantity and quality of women existence in engineering. The panel discussion attracted many participants, including presenters from the technical paper presentation at the WIE Technical Session. The panel discussion was opened with an introduction from Prof. Basabi Chakraborty. She welcomed all participants and introduced the four panellists from four different countries in Asia Pacific.

The discussion were very intense about how do you overcome the challenges of your career? Some advices from Prof. Janina Mazierska were that if you want to be recognized to be as good as a man, you should work twice as great as a man to be noticed. To achieve the best result in your life we have to work hard and be prepared at every step of challenges, we also need to organize our time well and be focused.

Prof. Riri Fitri Sari started conveying her thought by this statement "For a man to be success, he needs a helpful and supporting wife. But for a woman to be success, she needs another woman behind her. For my case it is my mother who supported me by help raising my daughters". Delivering babies and growing their children are major challenges for women to balance her work and family life. Prof Sari found that university environment is a friendly environment for women to work. One thing that she emphasized was that women should support each other.

Dr. Supavadee Aramvith said that family support is an important matter. She said that women must be confident and believe in themselves.

Prof. Takako Hashimoto stated that in her opinion Japanese society was very conservative at the time when she was young. Presently, female mindsets are changing. However, positions which are offered to females in Japan are limited in number. This is also the case for professorial positions even today.

In the question and answer session, some speakers said that to be a successful women, she must choose her husband wisely and to get family support.

Prof. Mazierska concluded the session with the remark that WIE activities are not only related for our career, but also for humanitarian purposes. Women need to believe in ourselves and need to work hard and continue doing what they are doing.

IEEE WIE Special Track participants

Takako Hashimoto
R10 WIE Coordinator

Changes to the Geographic Unit Formation Petition Process

At its 19 November 2011 meeting, the IEEE Member and Geographic Activities Board approved a motion to revise the geographic unit formation petition process for Sections, Subsections, Chapters, and Affinity Groups, effective 1 January 2012. The revisions were developed as a result of an audit of the current process that identified opportunities for more stringent risk management and compliance control.

Petition organizers should be aware of the primary process revisions for petitions to form Sections, Subsections, Chapters, or Affinity Groups. They are:

- The petition organizer is responsible for communicating their intent to begin the petition process with the geographic parent's executive committee, prior to gathering signatures on a petition. Prior to submission of the completed petition to MGA staff, the organizer must obtain the signed endorsement on the new geographic unit petition form from a member of the geographic parent's executive committee. This step ensures awareness of the organizer's intent and their willingness to coordinate efforts with the geographic parent.
- The organizer shall complete a business plan summary sheet to indicate the planned meetings and activities for the initial six months of the proposed geographic unit. The business plan summary sheet is included on the revised petition form. The business plan form shall include the signature of a member of the geographic parent executive committee, which will indicate the geographic parent's endorsement of the business plan.
- Petition signers must have been IEEE members for a minimum of six months.

If you have any questions, please contact the MGA staff by email (sec-chap-support@ieee.org) or phone (+1 732 562 5511 or +1 732 562 5512).

Babak Beheshti,
2011 Vice Chair MGA Geographic Unit Operations

How to recover your username and password of IEEE Web Account if you forgot it?

If you have already registered for an IEEE Web Account you can retrieve your account information by clicking on "forgot username" or "forgot password".

Once you have completed the required information, (email address, last name, first name, membership number, and security hint answer) your password will be reset. Copy the temporary password into a text file.

You will then be directed to the login window where you can change the password to your personal selection.

If you require additional assistance regarding your web account you can also reach the Contact Center at contactcenter@ieee.org or via:

Mailing Address:
    IEEE Contact Center
    445 Hoes Lane, Piscataway, NJ 08854 USA
    Telephone: +1 732 981 0060 (Worldwide)

Contact Center Globalization

The IEEE Contact Center has recently added a new staff member to the Singapore office - Freddy Lim, Contact Center Technical Associate. IEEE has taken the next step toward globalization by providing local support for our members and volunteers in the Asia-Pacific area. At IEEE, we are constantly exploring ways to elevate the support experience of our members. Hence, we believe that having a physical presence in the Region will definitely bring us and our members closer together.

We would also like to take this chance to highlight Live Chat Support, which will be the most cost effective way for members in our Region to reach the IEEE Contact Center. The Live Chat Support is located at the right window pane of the IEEE Support Center: https://supportcenter.ieee.org. Just click to initiate a chat request and our staff will be happy to assist you 24/5, Sunday 4:30pm - Friday 4:30pm ET -400 UTC.

Alternatively, there is the Knowledge Base on the IEEE Support Center where you may be able to find answers to your question or submit your questions through e-mail at: contactcenter@ieee.org.

Looking forward to serving you, and welcome any feedback you may have.

2011 Annual Reporting and Rebate Requirements

All Section Officers and Chapter/Affinity Group Chairs have been contacted with a reminder that the following annual reports are required to be eligible for a rebate:

    Meeting Report Form (L31)
    Officer Report Form
    2011 Financial Report (L50)

The L50 financial reporting process should be completed within the new financial reporting tool, NetSuite. Additionally, units that maintain a local bank account (i.e., not an IEEE Concentration Bank Account) must also submit the Bank Account Disclosure Form.

Forms should be completed and submitted as soon as possible, but no later than **31 March 2012**. Additional information on the Annual Reporting and the 2012 Rebate Schedule is available.

E-mail MGA Staff with questions (sec-chapter-support@ieee.org)

IEEE Center for Leadership Excellence

Start the year off by making volunteering for IEEE easier. Whether you are newly elected to your position in 2012 or are serving an additional term, we encourage you to take 30 minutes to review the training material provided in the IEEE Center for Leadership Excellence (CLE). The CLE provides an easy to use quick start guide for your position, and identifies key dates specific to your position so you can plan ahead. The CLE also includes a suite of optional courses through the CLE eLearning Library that provide guidance and tips on how you can be more effective and develop your professional skills to assist you in all facets of your professional life.

Call for Nominations

IEEE Medals and Recognitions

Nominations are due **1 July 2012** for the 2013 IEEE Medals and Recognitions. IEEE Medals are the highest recognition within the IEEE awards hierarchy, with the prestigious IEEE Medal of Honor as the premier award. IEEE Medals embrace broad and significant contributions within the technical fields of interest of IEEE.

Recognitions reward member's individual contributions to IEEE, published papers, and corporate advancements within the IEEE fields of interest.

Recipients are recognized at the formal IEEE Honors Ceremony. All IEEE members are encouraged to submit a nomination for a worthy candidate within their technical fields.

For more information, visit the IEEE Awards Web page or e-mail IEEE Awards staff (awards@ieee.org).

Call for Nominations

IEEE Educational Activities Board Awards

The IEEE Educational Activities Board (EAB) is requesting your assistance in making the 2012 IEEE EAB Awards the most successful year ever. Presently, the IEEE EAB is seeking nominations for 2012 awards in the following categories:

  Meritorious Achievement Award in Accreditation Activities

  Meritorious Achievement Award in Continuing Education

  Meritorious Achievement Award in Informal Education

  Major Educational Innovation Award

  Pre-University Educator Award

  Meritorious Service Citation

  Standards Education Award

  Employer Professional Development Award

  Society/Council Professional Development Award

  Section Professional Development Award

The deadline for nominations is 30 April.

IEEE Teacher In-Service Program (TISP) Celebrates 10th Anniversary

Celebrating its 10th Anniversary in 2012, the IEEE Teacher In-Service Program (TISP) provides a forum for IEEE volunteers across the globe to share their real-world experiences with pre-university teachers in a fun and engaging format. TISP prepares IEEE volunteers to provide professional development to pre-university educators on bringing exciting hands-on engineering, computing, and technology activities into their classrooms. IEEE volunteers are first trained on how to deliver the activities to teachers and connect with pre-university schools in their local communities. These volunteers then deliver the hands-on activities to teachers in professional in-service settings - who use the activities to engage students in their classrooms.

Through TISP, hundreds of IEEE volunteers have been empowered to collaborate with their local pre-university education community. These volunteers help promote applied inquiry-based learning; enhance the level of technical literacy of pre-university teachers; encourage pre-university students to pursue technical careers, including engineering; and increase the general level of technological literacy in pre-university students throughout their lives.

Using hands-on activities in the classroom is an engaging and effective way to bring the excitement and discovery of engineering, science, and technology to life. IEEE volunteers gain satisfaction of supporting engineering education and developing future engineering students.

E-mail Lynn Bowlby (l.bowlby@ieee.org) to learn more about the IEEE Teacher In-Service Program.

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Call for Grant Applications

IEEE Foundation/IEEE Life Members Fund

The IEEE Foundation cultivates relationships and resources to advance IEEE's core purpose to foster technological innovation and excellence for the benefit of humanity. To fulfil its role, the IEEE Foundation awards grants to new and innovative projects and administers more than 130 funds that support a variety of educational, humanitarian, historical preservation, and peer recognition programs of IEEE units.

The IEEE Life Members Committee seeks to support programs that promote engineering to the pre-college community, the professional development of young electrical/computer engineers, the history of electrical/computer engineering, and the interest of Life members.

The next deadline for grant applications for new and innovative projects is **24 July 2012**. Before submitting an application, please review the IEEE Foundation grant guidelines.

Submit grant applications online

The IEEE Foundation / IEEE Life Members Committee consider projects that:

• benefit humanity through the use of technology
• improve primary and secondary math and science learning
• increase active interest in engineering and science
• preserve the history of IEEE associated technologies
• tap the technological expertise of IEEE members
• demonstrate ability to be duplicated

E-mail questions to the IEEE Foundation (foundation-office@ieee.org)

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Research Articles & News

From Green Computing to Orange Computing:
A Newly Defined Interdisciplinary Research Area for Integration and Innovation of Health, Happiness and Warming Care Technologies

During the past 200 years, the industrial revolution has caused a considerable effect on human lifestyles [1, 2]. A number of changes occurred [3] with the rapid growth of the economy and technology, including the information revolution [3], the second industrial revolution [4], and biotechnology development. Although such evolution was considerably beneficial to humans, it has caused a number of problems, such as capitalism, utilitarianism, poverty gap, global warming, and an aging population [1, 2]. Because of recent changes, a number of people recognized these crises and appealed for effective solutions [5], for example, the green movement [6], which successfully creates awareness of environmental protection and leads to the development of green technology or green computing. However, the green movement does not concentrate on body and mind balance. Therefore, a solution that is feasible for shortening the discrepancy between technology and humanity is of utmost concern.

In 1972, the King of Bhutan proposed a new concept that used gross national happiness (GNH) [7] to describe the standard of living of a country, instead of using gross domestic product (GDP). The GNH has attracted considerable attention because it measured the mental health of people. Similar ideas were also proposed in other works. For example, Andrew Oswald advocated Happiness Economics [8] by combining economics with other research fields, such as psychology and sociology. Moreover, a book entitled "Well-Being" [9], which was written by Daniel Kahneman (a Nobel Prize winner in Economic Sciences in 2002), explained the fundamentals of happy psychology. The common objective of those theories is to upgrade the living quality of humans, and to bring more happiness into our daily lives. Recently, the IEEE launched the humanitarian technology challenge (HTC) project (www.ieeehtc.org) by sponsoring resource-constrained areas to build reliable electricity and medical facilities. Such an action also highlights the importance of humanistic care. Similar to the HTC project, Intel has supported in founding a Center for Aging Services Technologies (CAST) (www.agingtech.org), and its objective is to accelerate development of innovative healthcare technologies. Several academic institutes responded to the trend, and subsequently initiated medical care research, such as the "CodeBlue" project at Harvard University and "Computers in the Human Interaction Loop" (CHIL) at Carnegie Mellon University. Inspired by those related concepts [1, 2, 6, 8, 9], the research center at National Cheng Kung University cooperated with IEEE Tainan Section and devised a project for studying the new interdisciplinary "Orange Technology" to promote health, happiness, and warming care.

Orange computing refers to health, happiness, and warming care computing, which focuses on designing algorithms and systems for enhancing body and mind balance. The representative color of orange computing originates from a harmonic fusion of red (representing brightness of health and happiness) and yellow (representing warming care).

Instead of emphasizing the relations between environments and humans, as proposed by green technology, the objective of orange computing is to bring more health, happiness, warming care, and more mental wellness to the society.

Orange computing is an interdisciplinary field that includes computer science, electrical engineering, biomedical engineering, psychology, physiology, cognitive science, and social sciences. The main research area of orange computing consists of health, happiness and warming care; the more detailed research scope of orange computing may include:

1) Health and security care for the elderly, children, and infants.
2) Care and disaster relief for people in disaster-stricken areas.
3) Care for low-income families.
4) Body-mind care for people with physiological and psychological problems.
5) Happiness indicator measurement and happiness enhancement.

In summary, orange computing hopes to arouse awareness of the importance of mental wellness (health, happiness, and warming care), subsequently leading more people to join the movement, to share happiness with others, and finally to enhance the well-being of the society.

Jhing-Fa Wang and Bo-Wei Chen
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IEEE Tainan Section

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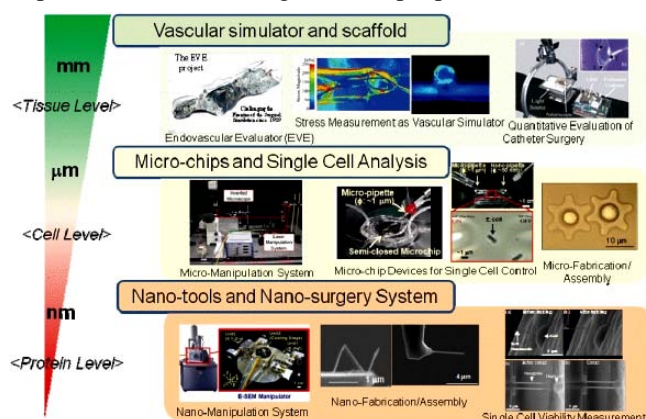
Research Activities at Laboratory of Micro-Nano System Control, Center For Micro-nano Mechatronics, Nagoya University, Japan

The main characteristic of our laboratory is to have much strong collaboration with industries and other research institutes. We are also involved in national large-scale projects, such as Centre Of Excellence (COE) for Education and Research of Micro-Nano Mechatronics, the Nagoya University Global COE Program. The followings are the major research topics in our laboratory:

1. Intelligent Robotics and Human Cooperation

In order for the future robots to play an active part in our life space like living creatures, it is desirable that they could realize better performance than pre-programmed movements and work in more various environments than in pre-programmed ones. We develop a "Multi-locomotive Robot" which can achieve several types of locomotion according to an environment like a gorilla; brachiation, quadruped walk, biped walk, ladder climbing, and so on. This project deals with mechanical design of the robot, control architecture, and a learning algorithm for motion improvement.

The Intelligent Human Machine Cooperative Robotics is important to support human operation by integrating each advantage of human and robot. To adaptive the human operation from robot side, the robot needs to estimate the human intention to make appropriate motion. For example, recently, we developed the walking support cane robot to help and assist the walking for elder people.

2. Micro-Nano Robotics and Their Applications

We aim at developing the manipulation system of micro objects such as the biological cells, microbes and DNA molecules with directly contact manipulation and non-contact manipulation. The non-contact manipulations system with optical power and field power such as electrostatic fields has been also proposed to handle them effectively within the micro-chips or micro-channel.

In nano-scale, we proposed "Nanolaboratory" having a nanorobotic manipulation system based on the nanorobotic manipulators inside electron microscopes, such as FE-SEM (Field Emission-Scanning Electron Microscope), TEM (Transmission Electron Microscope) and E-SEM (Environmental-SEM). The real-time and 3-dimensional nanorobotic manipulations of nano-structures have been realized. Recently, the local measurement and evaluation of single biological cells, such as mechanical/electrical properties related with the viability and activity of cells, have been realized with semi-wet aqueous condition using nano-tools based on nanomanipulation system under the E-SEM.

3. Medical Robotics and Their Applications

We are developing a medical assistance system which supports doctor's operation and decision making while under medical treatment. Our target field is the intravascular neurosurgery using a catheter that is a thin tube made of soft plastic. Our approach is a development of 3D cerebral arterial model of patient from the CT and MRI images, so that medical doctors can examine a methodology of intravascular neurosurgery such as microsurgery of aneurysm. This model is also appropriate for the medical training, informed consent to patients, medical surgery skill improvement and skill licensing.

Toshio Fukuda, Kosuke Sekiyama and Masahiro Nakajima
Department of Micro-Nano Systems Engineering, Nagoya University, Japan

Get Connected to Researchers in Your Field

R10 newsletter endeavours to provide a platform to connect researchers working in similar fields as they face problems/challenges that are common in the regional countries, such as funding and facilities. IEEE members in Region 10 are encouraged to showcase their research programs via this newsletter. This can facilitate formation of regional research networks, which can then lead to regional collaborations under the banner of IEEE R10 and thus create opportunities for joint research programs and exchange of students. It is also an excellent opportunity to nurture report writing skills of your undergraduate and post-graduate students by asking them to writing concise reports about their final year project or research work for publication in this newsletter.

The two articles in this section are good examples of how to report about areas of research at your institute or labs in the newsletter without being too technical.

Your feedback and suggestions and more importantly your submission about research projects at your institutes will be much appreciated.

Editor
R10-ecn@ieee.org

IEEE R10 Councils & Sections
News and Highlights

IEEE Taipei Section
Future Digital Video Workshop

The Future Digital Video Workshop was held at National Chaio Tung University (NCTU), Hsinchu, Taiwan, on 10 November 2011. It was cordially hosted by the Electrical and Computer Engineering (ECE) and Computer Science (CS) Colleges, NCTU, with sponsorships from the Center for Information and Communications Technology, NCTU, the National Science Council, Taiwan, the IEEE Consumer Electronics Society Taipei Chapter and the IEEE Signal Processing Society Taipei Chapter. The organizing committee was composed of Prof. Hsueh-Ming Hang (EE Dept; General Chair), Prof. Wen-Hsiao Peng (CS Dept; Program Chair) and Prof. Tian-Sheuan, Chang (EE Dept; Program Chair). The program featured presentations from world-leading scholars in the field of Digital Video Technology with a primary group focus on the recent advances in video processing, coding and applications, followed by a panel discussion session, in which the attendees of the workshop participated in a lively discussion about the future prospects of video coding and the role of academic people in standard developments. The event turned out to be very successful, attracting more than 200+ attendees from both academia and industry around Taiwan.

The workshop commenced at 9 AM with welcome addresses given by Prof. Han-Ping David Shieh, the Vice President of NCTU, and Prof. Bao-Shuh Paul Lin, the Director of the Center for Information and Communications Technology, NCTU. This in turn started the morning session, during which Prof. C. C. Jay Kuo, University of Southern California, United States, first spent an hour or so introducing a machine learning approach to visual information processing. He showcased the benefits of using machine learning techniques in developing quality metrics for better quantifying human perception of image quality. The program then continued with the speech by Prof. Masayuki Tanimoto, Nagoya University, Japan, who overviewed the history, current status, and future development of Free-Viewpoint Television (FTV). His video demos showing fully functional FTV systems were very impressive and well-received.

This 3D video theme carried over to the afternoon session, in which Dr. Huifang Sun, Mitsubishi Electric Research Laboratory, United States, reported on the recent advances of the upcoming ISO/IEC MPEG and ITU-T VCEG standards, such as 3D Video Coding (3DVC) and High-Efficiency Video Coding (HEVC). Next, Prof. Jörn Ostermann, Leibniz Universität Hannover, Germany presented a video analysis technique for the integration of virtual objects into natural scenes, which is a desirable tool for editing and creating video content, especially movie content. The audiences were impressed by his colorful demos. The program concluded with panel discussion, during which the audiences joined the speakers in an attempt to explore and identify research opportunities in future digital video technologies. The discussion was initiated by the short presentation from Prof. Marek Domanski, Poznan University of Technology, Poland.

After the workshop, the speakers met with several faculty members at NCTU, including Prof. Suh-Yin Lee, CS Dept, and Prof. Sheng-Jyh Wang, EE Dept., and others. They described their research work to visitors. The meeting ended with a lab visit at Prof. Hang's laboratory, where the a group picture was taken. Dr. Tihao Chiang, Chairs of IEEE Signal Processing Society Taipei Chapter and IEEE Consumer Electronics Society Taipei Chapter, hosted the dinner in the evening.

Invited Talks: The IEEE Reliability Society Taipei/ Tainan Chapter organised following invited talks on 21 Nov 2011.

(1) Protecting Information Systems from Insider Threats - Concepts and Issues

In the past, most of the information security researches paid much attention to outsider threats. However in this talk, Prof. Bertino pointed out that threats could come from an insider, and it is equally as important as to the threats that came from outsiders. Recent surveys pointed out that the number of insider attacks are growing rapidly, and it has become a difficult task for detection/prevention mechanisms to detect/prevent such threats. To protect a system from insider attacks, a combination of security mechanisms are needed to achieve a good result. Those security mechanisms include access control, anomaly detection, authentication protocols, etc. Prof. Bertino also mentioned about security policy issues, it is considered as one of the challenging issues in information security domain. Policy issues are involved in many applications. For instance, database, IDS, etc. There are many challenges to construct a system that

Lab Visit after the Workshop - All speakers and hosts (from left): Sheng-Jyh Wang, Jörn Ostermann, Marek Domanski, Jay Kuo, Masayuki Tanimoto, Huifang Sun, Hsueh-Ming Hang, Wen-Hsiao Peng.

has security policy implemented. For example, design a flexible configuration mechanism to comply with security policies for non-information security background personals, the design of profiling and its granularity level to verify the security level of the policies, etc. Overall, Prof. Bertino introduced a challenging topic and possible solutions to stimulate our researches in insider threats domain.

(2) Securing Data in the Cloud - Challenges and Research Directions

In the second session, Prof. Bertino talked about security issues in cloud computing environment. Cloud computing moves many resources into cloud. In which, it provides a new model for computing and data storage. However, in cloud computing environment, there are more risks involved in privacy and security area. For cloud services, the requirement of appropriate authentication and access control mechanism are the basis. Additionally, user privacy is also important for cloud computing environment. It is not an easy task to satisfy all of the aforementioned requirements at the same time. Prof. Bertino's research introduced an elegant solution to protect user privacy while maintain user identity at the same time. This is an important issue in cloud computing environment since data and computing resources are moved from trusted private storage to a storage location that is shared by different users from different backgrounds. This technology trend introduces new information security and privacy issues over the already existed issues. Moreover, the physical storage location is a new issue that is introduced by cloud computing. Personal data in the cloud may be broken into parts and distributed around different storage locations; therefore, it is difficult to implement information security to address this matter. Besides the technical challenges, in order to comply with the laws and policies in different countries, an incomplete information security scheme may pose potential threats of data leakage. Because cloud computing is the current trend and the future, the issues pointed out by Prof. Bertino are worth awhile to take a note of.

Prof. Sy-Yen Kuo
Chair, Taipei Section 2012

IEEE Bombay Section

Celebration and Honouring of A Veteran IEEE Member

IEEE Bombay Section honoured Dr Faqir Chand Kohli at its Annual General Meeting on 7 January 2012 on the occasion of his being conferred the IEEE Founders Medal by the IEEE Foundation. This honour which is usually presented in June, is in recognition of Dr Kohli's "outstanding contributions in the leadership, planning, and administration of affairs of great value to the electrical and electronics engineering profession." The citation also acknowledges his "early vision and pioneering contributions to the development of the IT industry in India."

The significance of the award is even greater because that F. C. Kohli becomes the first person outside the US, UK and Japan to receive the medal.

At the AGM, Dr Kohli was presented with a commemorative silver salver and floral tributes. Mr Kirit Sheth, Past Chair of Bombay Section and founder of the EMS Chapter in 2002, who has worked closely with Dr Kohli over the years, delivered a spirited address recalling Mr Kohli's vision and leadership. In his response the octogenarian Dr Kohli shared with the members his current interests in the development of Indian language computing and collaboration with academia and government in upgrading engineering education.

The Section took the lead in honouring Dr Kohli, who was among the pioneers of IEEE in India, was Region 10 Director way back in 1974 and is acknowledged as the father of the Indian software industry.

Plaque Presentation: (L-R) Mr Kirit Sheth, Dr Kohli, Dr M V Pitke (Chair 2011), Mr Ashok Jagatia (Chair 2012)

Dr Kohli being felicitated L-R Mr Kirit Sheth, Dr Kohli, Dr M V Pitke (Chair 2011), Mr Anthony Lobo (Vice Chair) and Mr Ashok Jagatia (Chair 2012) with Mr Hemant Sonawala, Past Chair in the foreground.

Anthony Lobo, Vice Chair Bombay Section

IEEE Tokyo Section

IEEE Milestone in Electrical Engineering and Computing

Dedication Ceremony of IEEE Milestone for the First Practical Field Emission Electron Microscope was held on January 31, 2012, at MITO PLAZA HOTEL, Mito, Japan. Hitachi developed and commercialized the world's first field emission scanning electron microscope in 1972. It was approved as an IEEE Milestone on April 5, 2011. IEEE Tokyo Section hosted the Dedication Ceremony for the Plaque of IEEE Milestone in Electrical Engineering and Computing and invited many guests including Prof. Lawrence Wong, IEEE Region 10 Director, Prof. Tomonori Aoyama, Chair, IEEE Tokyo Section, other executive committee members, and executives of national academic institutes and societies. In this ceremony, Prof. Tomonori Aoyama gave an address, and Dr. Eiichi Ohno, IEEE Japan Council History Committee Chair, explained the background of the approval. Prof. Lawrence Wong presented commemorative plaques to Mr. Hiroaki Nakanishi, President, Hitachi Ltd., and Mr. Masao Hisada, President, Hitachi High-Technologies Corporation.

IEEE Milestone in Electrical Engineering and Computing is a program of the IEEE History Committee administrated through the IEEE History Center to honour significant achievements in electrical, electronic, and computer engineering and the associated sciences. Milestones recognize the technological innovation and excellence for the benefit of humanity found in unique products, services, seminal papers and patents. IEEE established the Milestones Program in 1983 in conjunction with 1984 Centennial Celebration to recognize the achievements of the Century of Giants who formed the profession and technologies represented by IEEE. More than one hundred Milestones have been approved and dedicated around the world. Each milestone recognizes a significant achievement that has occurred at least twenty-five years ago in an area of technology represented in IEEE and having at least regional impact. The First Practical Field Emission Electron

Microscope is the sixteenth Japanese milestone.

After the ceremony, a Commemoration Lectures meeting was held in Hitachi High-Technologies Corporation. The first lecture entitled "IEEE Milestones" was presented by Dr. Eiichi Ohno. Second lecture entitled "Brighter Light" was presented by Dr. David C. Joy, Distinguished Professor, University of Tennessee. Third lecture entitled "Study on Structural Stability in Nanometer-sized Alloy Particles by FEG-TEM" was presented by Prof. Hirotaro Mori, Professor, Osaka University. The last lecture entitled "History of Hitachi's FE-SEM (Field Emission Scanning Electron Microscope)" was presented by Dr. Hidehito Obayashi, Chairman of the Board, Hitachi High-Technologies Corporation / Chairman, Semiconductor Equipment Association of Japan.

Unveiling ceremony of the IEEE Milestone monument

Dr. Hirohisa Gambe
Chair, IEEE Tokyo Section Publications Committee

IEEE Milestone Dedication Ceremony

IEEE South Australia Section

The IEEE SA Section Distinguished Lecturer 2011

The IEEE SA Section Distinguished Lecturer for 2011 was presented by Dr Lan Lam, Research Leader in the area of energy storage in Energy Technology Division at the Commonwealth Scientific and Industrial Research Organisation (CSIRO) on 17 November 2011 at Ayers House in Adelaide. The topic of the lecture was "CSIRO UltraBattery for Hybrid-electric Vehicle and Wind-energy applications". Dr Leigh Powis, Immediate Past Chair of the SA Section, was the master of ceremonies and provided a concise and enjoyable introduction to the program.

For the first time IEEE SA Section Distinguished Lecturer attracted over 100 guests including IEEE members and theirs spouses, student member and members of university, industry and government. The members and guests enjoyed memorable distinguished lecture and dinner.

Dr Lam presented a very informative presentation taking listeners on a journey from the principles of a 150 year-old lead acid energy-storage system – into a dynamic technology that will open pathways to low emission transport and renewable energy storage. The presentation considered the need for a new battery cell that combined the advantages of: the super-capacitor and the lead-acid cell. These two technologies combined in UltraBattery will provide the high charge–discharge rates of the super-capacitor and the greater energy storage of the lead–acid cell. The UltraBattery has been comprehensively tested both in Australia and internationally and has been proven to offer a number of advantages over the existing nickel-metal hydride batteries used in hybrid electric vehicles. The Ultra Battery is 70% less expensive than other batteries it offers faster charge and discharge rates and has a comparable performance in terms of fuel consumption carbon-dioxide emissions and cycle life.

UltraBattery technology is being developed for two major applications: low emission transport, specifically hybrid electric vehicles (HEV), and renewable energy storage from wind and solar sources. The UltraBattery is not intended to replace regular car batteries. Instead, the technology presents an opportunity to be integrated into new, low emission HEV designs.

There are a number of benefits that the UltraBattery could have for renewable energy supply, for example, reliability, stability, load levelling, remote area power supply and emergency backup. For renewable energy storage, it is expected that the discharge and charge power will be 50 per cent higher and the life-cycle at least two times longer than that of the conventional lead-acid counterpart currently used for renewable energy storage.

CSIRO has licensed UltraBattery technology for automotive applications to The Furukawa Battery Co Ltd in Japan and East Penn Manufacturing Co Inc in North America. These commercial licenses extend through the regions of Japan, Thailand, North America, Mexico and Canada.

The opportunity was also taken at the dinner to present Prof Bob Bognar with the charter for the newly established Life Members Affinity Group and to present Luke Balzan with the 2011 SA Section Distinguished Young Volunteer Award for notable services and contributions towards the advancement of IEEE and the engineering professions and recognition of significant contribution to the South Australia Section.

Dr Andrew Piotrowski presenting the charter for the Life Members Affinity Group to Prof Bob Bognar, Chair of LMAG

Dr Andrew Piotrowski
Chair, IEEE South Australia Section (2011-12)

IEEE Madras Section

Technical Meeting on "User Identification with Multimodal Biometrics".

Dr. Sitalakshmi Venkatraman, Research Degree Coordinator & Senior Lecturer in Information Technology, School of Science, Information Technology and Engineering, University Of Ballarat, Australia delivered a presentation on "User Identification with Multimodal Biometrics" in the December technical meeting organized by the IEEE Madras Section along with the IEEE CS, IEEE TMC, CSI Chennai and IIT Madras Alumni Association.

Mr. HR Mohan, Chair, IEEE CS Chapter, while welcoming the gathering, highlighted the importance of Biometrics in the context of growing e-commerce business, online banking and various e-Governance initiatives including UID project. Mr. Rupchand, Chair, IEEE TMC formally introduced the speaker, Dr. Sitalakshmi Venkatraman, an alumni of IIT Madras and NITIE Mumbai, having about 25 years of rich international work experience in developing turnkey projects for IT industry, and in teaching a variety of IT courses for tertiary institutions, in India, Singapore, New Zealand and now in Australia.

In her, presentation Dr. Sitalakshmi Venkatraman said that due to the increasing demand for secure electronic applications, biometrics systems are becoming very important for many real world applications. Over the years,

biometric technologies based on face, fingerprint, DNA samples, speech, keystroke and other personal features have advanced to a great extent leading to sophisticated user identification systems. She reviewed the developments and the issues surrounding biometrics worldwide and in addition related it to the recent Proof-of-Concept (PoC) study of biometric enrolment conducted by UIDAI in India. Considering case instances from various literatures, she concluded that multimodal biometrics is the way forward for a highly reliable adoption of biometric identification systems in various applications, such as banks, businesses, government and even home environments. She also illustrated a solution model for implementing multimodal biometrics based on industry-oriented research projects being undertaken at the University of Ballarat, Australia. Towards the end, Dr. Sita shared the related research project opportunities and funding details for pursuing higher research degrees in Australia in general and in particular at the University of Ballarat.

The presentation was quite interactive and the participants raised a number of queries after the formal presentation. The participants, from the industry, who carry out the micro-financing and banking projects shared their experiences. Mr. Mohan, Chair IEEE CS Chapter and V.V Chnadrasekaran, Treasurer, IEEE Madras Section presented mementoes to Dr. Sita. Dr. R. M. Suresh, Chair CSI Chennai, while proposing the vote of thanks, urged the students and academic community to make use of the offer of collaborative research with the Australian universities. About 85 participants representing, academia, industry and student community attended the presentation.

HR Mohan
Editor IEEE MAS LINK, IEEE Madras Section

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IEEE Computer Society Victorian Chapter, Australia

The Greening of Data Centres

IEEE Computer Society Victorian Chapter had a busy year of 2011. The Chapter extended its committee size though an election which was held on 8th of December 2012, before the Chapter's Annual General Meeting (2011). With the new committee the Chapter organised first technical talk on the 23rd of February 2012 in Monash University (Caulfield Campus).

Mr. Robert Sharon delivering his talk.

The presenter Mr. Robert Sharon has been working in I.T industry for last 27 years. He has been involved in many high profile building and data centre projects with organisations such as the ANZ Bank, NAB, CBA, ATO,

NextDC, Australian Data Centres, Interactive, E3, Adam Internet, Internode, NextGen, Datacom and many more. As "Greening of Data Centre" the topic itself was very interesting, there were a good mixer of audiences from different backgrounds – electrical and electronics engineers, I.T professionals, academics and PhD students. One of the attendees was Dr. Carlo Kopp whom we specially thank for taking the photographs and actively participating in open discussion during the delivery of the talk by the speaker.

The speaker started with his research findings about the data centres around the world – which globally consume 2% of the total outputs of electricity generation. That makes these facilities amongst the hungriest consumers of energy on the planet. The talk provided a brief history of data centres leading up to what's available today. Examples of traditional data centres as well as comparison with the leading edge data centres (green) were presented. But the fact is disappointingly most new data centres are still being built to traditional designs. Brownfield and Greenfield sites with modern designs, components and process can produce significant environmental and financial returns (cost savings on Data centre cooling). The bottom line outcomes for CO_2 emissions, the affects of the carbon tax and power costs were compared in a number of simulated financial models of different data centre types. It was more a two way discussion type talk as the audiences kept asking questions while the talk forwarded. The speaker finished the talk by discussing the design changes that are possible, the impact these changes can make and the imperatives for changes.

Incoming event on March

The President Elect of the IEEE Computer Society, Dr. David Alan Grier, will be visiting Australia from the USA. David is the author of When Computers Were Human (Princeton, 2005) and Too Soon To Tell (Wiley, 2009). He is the Vice President of Publications for the IEEE Computer Society and a former Editor in Chief of the IEEE Annals. The Chapter has organised an evening talk event followed by a dinner on the 8th of March 2012. Dr. David will be delivering a fascinating talk on Social Media and Crowd sourcing on that night.

A portion of audiences: (Courtesy: Dr. Carlo Kopp)

Nasir Uddin, Chair Computer Society Chapter
IEEE Victorian Section

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IEEE Hyderabad Section

INDICON 2011

The inaugural ceremony of the INDICON 2011 commenced at 1700 hrs at the BITS-Pilani Hyderabad Campus with the arrival of His Excellency Shri E. S. L. Narasimhan, Governor Andhra Pradesh, and Dr. Fakir Chand Kohli, FIEEE, Former Deputy Chairman, Tata Consultancy Services (TCS). The commencement was formalized by lighting of the lamp by the dignitaries. Mr. M G P L Narayana, Chair of IEEE Hyderabad Section and General Chair, INDICON 2011 delivered the welcome address followed by a brief talk on IEEE India by Dr. Ram Gopal Gupta, Chair IEEE India Council. The current views on IEEE and the world were presented by Dr. Gordon W. Day, IEEE President-Elect 2011, and IEEE President-Elect 2012 Dr. Peter Staecker. This was followed by the speakers Prof. B. N. Jain, VC-BITS Pilani, Prof. V. S. Rao, Director BITS-Hyderabad and Dr. F C Kohli. Finally, His Excellency Shri. E. S. L. Narasimhan released the INDICON 2011 Souvenir and addressed the delegates.

His Excellency Shri E. S. L. Narasimhan, Governor Andhra Pradesh, Dr. Fakir Chand Kohli and Mr. M G P L Narayana, Chair IEEE Hyderabad Section

Earlier, the inaugural day of the India Council three-day annual conference INDICON 2011 (16th - 18th December, 2011) commenced with sessions of tutorials and workshops on topics pertaining to the fields of Electronics, Electrical Engineering, Software Engineering and Nanotechnology. The morning session comprised of parallel sessions of three tutorials and a workshop and the post-lunch session comprised of four tutorials, a workshop delivered by eminent experts from both the academia and industry and three special sessions.

Dr. Gordon W. Day, Dr. Peter Staecker and Dr John Walz addressing the inaugural session

The workshop "Achieving Product Success in Electronic Product Development" was chaired by Dr. S. Goshal, Mr. Gopi Kumar Bulusu and Mr. Ramdas Rajagopal along with a hands-on session. The second session a tutorial on "Big Data Management" was by Dr. Santhosh Kumar Mohanty, Mr. Jayant Dani, Mr. Srikar Chilakamarri of TCS followed by a tutorial on "Smart-Grids for Transmission Systems" by

Prof. S. A. Soman, IIT-Bombay. The final pre-lunch session was on "Adaptive Software Engineering Design" by Mr. Hari Prasad Devarapalli and Ms. Padmalata Nistala of TCS. The post lunch session comprised of a workshop on "Dispelling the myths of Innovation", and tutorials on "Power Electronic System: Digital Control Solutions", "Nanotechnology" in parallel sessions. A session on "IEEE Standards Association" by Mr. Harish Mysore (Director, IEEE India Office), Mr. Sri Chandra (Chair, IEEE Standards Interest Group), Dr. John Walz (2012 President, IEEE Computer Society) and Mr. Satish Aggarwal (SK Nuclear, Maryland) was also organized.

Day 2 of INDICON 2011 comprised of parallel technical sessions of diverse fields such as Computing, Power and Energy, Communications and the theme of the INDICON 2011 i.e., Engineering Sustainable Solutions (ESS) throughout the day. A plenary session and a few invited talks by eminent experts and speakers from various fields were also arranged. At the technical sessions on 17th December, 2011 each track was divided into various sessions having about 8 papers to be presented. The first plenary session on "Advancing Technology for Humanity: Expanding the Reach and the Toolset" was presented by Dr. Peter Staecker. The post-lunch session consisted of a dialogue session/ poster presentation of few of the accepted technical papers running in parallel with the oral technical sessions and the invited talks.

The day 3 of the INDICON saw even more technical presentations in both the oral and dialogue sessions. The delegates enthusiastically presented their work and attended the plenary sessions and invited talks. The second plenary talk of INDICON 2011 was on "Information Extraction from Sensory Signals" by Prof. Hynek Hermansky, John Hopkins University Baltimore, Maryland. A panel discussion on "Engineering for Global Development" by Engineering for Change (E4C) was organized prior to lunch, panelled by eminent professionals from various sectors and organizations. This panel discussion provided the delegates an opportunity to interact with the panellists and clear their doubts/queries related to engineering, its humanitarian approach and for the advancement of technology leading to global development.

The post-lunch session comprised of the dialogue and oral sessions for remaining papers and the last set of invited talks in each of the tracks. The talk in the computing track was on "Cloud Computing: A New IT Model for Delivering Sustainable Solutions" by Dr. Rajkumar Buyya of Manjrasoft Pvt. Ltd., Melbourne. During his talk Dr. Rajkumar presented the 21st century vision of computing identifying various paradigms to deliver this vision. He then spoke about the architecture of the market-oriented Clouds emphasising on the resource management strategies related to the customer-driven service management and computational risk management. He discussed in detail about the applications of Cloud Computing in the areas of engineering, gaming and health care.

The communications track talk was on "Communication Networks" by Ms. Tessy Thomas, Scientist DRDO. Her talk gave a concise overview on the secured communication networks used in military and strategic communications. Several techniques like multiple information gathering and data-fusion methods, auto updating of databases, threat analysis and real-time decision making were mentioned. Advanced algorithms and techniques for battlefield

management with the real-time applications was shown as an example. The Electrical track talk was on "Grid Operations and Control - Issues, Concerns and Expectations" by Mr. M. G. Raoot, MD & CEO NPEX. His presentation briefly covers the issues and challenges in real-time operation of Indian Electricity Grid. He mentioned that the system operation of the grid becomes more complex with the multi-fold expansion of the grid and for its reliable and secure operation, the operator must fully understand the challenges involved in the expansion.

The three-day INDICON 2011 concluded with the valedictory ceremony presided over by Dr. Gordon W. Day, addressing the delegates on "Let us flatten the world. Followed by Dr. John Walz, President IEEE Computer Society 2011 speaking on how fundamental knowledge in computer science is a must in the present-day scenario. Later the certificates for the best papers in both oral and dialogue sessions were presented by Dr. Walz. The best papers awardees are:

Computing Track: Paper entitled, "Promoter Prediction using DNA Numerical Representation and Neural Network: Case Study with Three Organisms" by Swarna Bai Arniker et al for the Dialogue session and the paper entitled, "Numerical Algorithm for the Solution of Third Order Differential Equations in Orthogonal Hybrid Function (HF) Domain" by Anindita Ganguly et al for Oral session.

Communication Track: Paper entitled, "A Compact Fractal UWB Antenna with open-ended Quarter Wavelength Slot for Band Notch Characteristics" by Anirban Karmakar for Dialogue session, and Paper entitled, "Simulation of Vertical Handover between WiFi and WiMax and its Performance Analysis - An Installation Perspective" by Sahana Bhosale for Oral session.

Power and Energy Track: Paper entitled, "Laboratory implementation of Feedback Linearization Control Based Power Control of Grid Connected DFIG" by Karthikeyan Anabalagan, et al. for Dialogue session, and paper entitled, "Effects of Low Amplitude Oscillatory Switching Transients on EHV Grid Transformers" by Poulomi Mitra et al., for Oral Session.

Theme Track - Engineering Sustainable Solutions: Paper entitled, "Decision Support Information System for water source evaluation and management" by Valli Kumari Vatsavayi et al., for Discussion session and paper entitled,"Flood Control- Mesh and X-Ray Fluorescence Spectroscopy based system for city drainage" by Swati Padmanabhan and Anaisha Jaykumar for Oral session.

Pritam - Best paper awardee

The INDICON 2011 theme video contest award was presented to Equinox team from Vignana Bharati Institute of Technology, Ghatkesar. Later, sponsors for their support, the session and track chairs of the conference, BITS-Pilani Hyderabad Campus for providing the venue and enthusiastic volunteers, Violet Worldwide for their efforts in making the event a grand success and the INDICON 2011 Organizing Committee - the IEEE Hyderabad Section all other volunteers associated with the event were felicitated. The INDICON 2011 concluded with the Mr. M. G. P. L. Narayana, General Chair INDICON 2011 and Chairman IEEE Hyderabad Section passing on the baton to Mr. Satish Babu, Chair IEEE Kerala Section. Mr. Satish Babu invited all the participants to INDICON 2012 to be held at Kochi in December 2012 jointly organized by the IEEE Kerala Section and IEEE Cochin Sub-section.

M G P L Narayana
Chair IEEE Hyderabad Section

IEEE Northern Australia Section - *The Highest Voting Section Prize Winner for 2011*

HOW TO INCREASE VOTING RATE OF YOUR SECTION

Lucky Prize Draw of Free IEEE Membership Among Voters

Dear Section Chairs and volunteers,

I would like to recommend a simple method to increase the voting rate to be implemented in your Section for the current election. We tried it in our Section (Northern Australia) last year and it worked. We jumped to the 1st place from a rather low rate, and got $500 from Region 10!!!!

How did we do? We offered a personal incentive of a one year free IEEE basic membership to one of the voting members in our Section. The cost of the prize was paid from our Section funds. The name was drawn from the list of members who voted.

How did we know who voted? Simple. Each person (who votes electronically) gets a confirmation email from the IEEE. We asked for these confirmations to be emailed to our secretary. And we drew one lucky name from the lot.

I suggest that large Sections offer two or three prizes, and small Sections offer one. I am confident that with this idea, more members in your Section will vote. Also that we can increase an average voting rate for our Region 10 and increase our "voting power" to get more our volunteers selected to positions on the IEEE and MGA Committees.

GOOD LUCK

Kind regards,

Janina Mazierska, R10 Director 2007-2008
IEEE Northern Australia Section

News from WIE Affinity Groups

IEEE Malaysia WIE Affinity Group

IEEE Malaysia WIE Affinity Group organized a special keynote session titled "Shifting from the Instruction Paradigm to the Learning Paradigm: Producing 21st Century Engineers and Scientist" at the 2011 3rd International Conference on Engineering Education (ICEED 2011) which was held in Kuala Lumpur from 7th – 8th December 2011.

Ir. Hayati answering questions from the participants

The aim of the session was to explore whether higher institutions should change their conventional way of teaching to a more suitable paradigm in order to cope with the technology advancement and the needs from stakeholders and societies. The invited speakers for this session were Dr. Jaafar Jantan and Ir. Hayati Abdullah who were the recipient of 2010 Malaysia Academic Excellent in University Teaching for categories Pure Science and Engineering respectively. Both speakers shared their views and personal experiences in promoting learning paradigm at their universities.

Dr Jaafar Jantan delivering his keynote

The session was a huge success with active participation from 70 participants who were mostly academicians. The session concluded with an understanding that a paradigm shift is desirable in world-wide education. Higher education institutions should give incentives to faculty members who want to transform from 'Instruction Paradigm' to 'Learning Paradigm'.

Zuhaina Zakaria
IEEE Malaysia WIE Affinity Group

IEEE Singapore WIE AG
Special Session in ICICS 2011
Recent Advances in Multimedia & Human Computer Interfaces

IEEE Singapore Section (IEEE SG) Women In Engineering (WIE) Affinity Group (AG) organized a Special Session on Recent Advances in Multimedia & Human Computer Interfaces at the 8th International Conference on Information, Communications and Signal Processing (ICICS) 2011. This special session was held in Singapore on 16 December 2011. It aimed to recognize woman engineers who through their research have established a benchmark of excellence in the field of engineering. Hence, papers with at least one female author were eligible for the session. The topics of interest involved but were not restricted to Digital Signal Processing; Multimedia Systems and Applications; Human Computer Interaction; Design, User Experience, and Usability; Pattern Analysis and Machine Intelligence; and Bio-signal Processing.

This special session was co-chaired by Professor Ying Wei from Shangdong University, China and Dr. Huaqun Guo, IEEE SG WIE AG 2011 Chair. The five speakers, from the various universities and institutes, also contributed to the informative sharing session, and raised the profiles of women in science and engineering. As tokens of appreciation, they were each presented with a T-shirt with the WIE logo embossed on. The successful event was attended by 24 registered participants, of which 13 are IEEE members. There was also a post-conference networking dinner with the speakers.

A group photograph with the participants.

Dr. Huaqun Guo
IEEE Singapore Section WIE AG

R10 WIE on Facebook

R10 WIE Facebook page has been launched and R10 WIE website has been updated.

Please have a look at the following pages:
   http://www.facebook.com/IEEE.R10.WIE

   http://sites.ieee.org/r10-wie/

Please encourage WIE AGs in your Section to post and share information through above pages.

WIE Affinity Group IEEE Kerala Section

Workshop on Research Methodology

The WIE affinity group IEEE Kerala Section in association with the IEEE Student Branch of Sree Chitra Thirunal College of Engineering organised a workshop on Research Methodology from19 - 21 December 2011. The workshop was organized to encourage the teaching faculty to pursue higher up in their fields of interest and to provide them specific guidelines through expert talks. Nearly 15 staff members and 50 postgraduate students attended the workshop.

Prof. Dr. Premlet B gave a talk entitled: "Research: An Overview" in which he introduced to the delegates the crucial steps one must follow for a systematic and successful research work.

Dr. Ajit Prabhu enlightened the audience on the need to apply for patent and protect one's innovation and then to publish the paper. The value of patent and the issues related to patent were discussed in detail.

Prof. Dr. K A Navas gave a talk on "Technical Writing" in which he shared the skills for writing in journals and suggested to audience to take up a course on technical writing. He also gave a hands on experience on LaTex in which participants edited the IEEE paper templates in LaTex.

Prof. Dr. Anil Lal S discussed Data Sampling and Data Analysis in which he covered the importance of data sampling and analysis. He described in detail some of the common data distributions which the researchers could use to quantify the performance of their result.

The workshop proved to be very fruitful providing the much needed guidance for the young and aspiring researchers.

Ms. Shanthi K J
Chair, WIE IEEE Kerala Section

Jeppiaar Engineering College, India

Inaugural of IEEE WIE Affinity Group

IEEE Student Branch of Jeppiaar Engineering College inaugurated its Women In Engineering (WIE) Affinity Group on Thursday, 19th January 2012. A debate contest was organized with to evoke the already enlightened students. The four teams were divided into two groups of two teams with each given separate themes. The arrival of the WIE volunteers Ms. Magy Ana Abraham (system engineer Infosys), and Ms. Chithira Swaminathan (Asst. system engineer, Tata Consultancy Services limited) marked the beginning of the event. Ms.Madhuri K. P, WIE Student Chair, Jeppiaar Engineering College IEEE SB, welcomed the gathering.

The topic of the first debate was "Is Our Conservative Society Proving To Be An Obstacle In Women Empowerment" with Krishna V.S, EIE & Shiva D.K, ECE speaking for and Fathima Nargis, EEE & Anupama S, ECE against the topic.

The second topic of debate "Is The Social Network Really Revolutionary" had Santosh of EIE & Ajay Daniel, ECE speaking for and Pragnya .S, IT & Bharathi, CSE against the topic. The debating points of both debates were discussed and the results were announced by WIE volunteers, and the team comprising Pragnya.S and Bharathi was chosen as the winner.

This was followed by a session "An Insight on WIE" by invited speakers who enlightened the audience with the mission of WIE and how to facilitate the recruitment and retention of women in technical disciplines globally.

The second session started with the arrival of Mrs. Ramalatha Marimuthu, Chair IEEE WIE and Ms. Helene Hoi Ying Fung, IEEE Strategic Planning Manager, stationed in Singapore. The inaugural function was marked by the lighting up of lamp by the chief guests. While inaugurating the event, Mrs. Ramalatha Marimuthu spoke about how her association with WIE started and also elaborated on the STAR program and Sangamam Project. This was followed by an informative and thought-provoking talk by Ms. Helene. The event concluded with the vote of thanks by Ms. N.Krithika, a 3rd Year student of EEE followed by an inspirational video on "Women Achievers" by Ms. Ramalakshmi, also a 3rd Year student of EIE.

The overall function was a great success. We express our gratitude to our esteemed guests, our Branch Counselor, Mr. Sellakumar and to the volunteers who helped in organizing the event without whose endeavors the event wouldn't have been a great success.

Madhuri Pendyala & Apoorva P Naidu
Jeppiaar Engineering College, India

University of Moratuwa SB, Sri Lanka

First Sri Lanka IEEE Student/GOLD/WIE Congress

The first IEEE Student/GOLD/WIE Congress in Sri Lanka was held on 6th January 2012, at the University of Moratuwa. It was in parallel with the Region 10 (Asia &Pacific) Executive Committee meeting, which was held in Sri Lanka in January 2012. It provided the opportunity to grasp the experience from international guests and initiate a network on strong basis. The concept "Global Integrated network of IEEE Students (GINI)" which was implemented successfully in several regional countries (especially in India and Pakistan) became the exemplarily model to build up the network. Apart from those main objectives, enhancing professionalism, leadership and team work of students, drawing attention of members towards WIE and GOLD affinity groups and giving access to local students to the international arena were also our concerns.

Number of guests representing IEEE Region 10 included Dr.Takako Hashimoto, R10 WIE Coordinator, Mr. Aby Kurian, R10 Student Representativefor 2012, Mr. Rayees Nishad, South Asia GOLD Coordinator and Dr. Zia Ahmed, Editor of The IEEE Region 10 Newsletter. All of them shared their thoughts and experience regarding IEEE activities.

Dr. Takako congratulated the WIE Affinity Group of University of Moratuwa, which is the first WIE group in Sri Lanka. She pointed out the importance of WIE to enhance the quality of women involved in engineering professions and the ability to use WIE to solve specific problems related to women in engineering. A special panel discussion was also held for the female participants, allowing them a free arena to discuss their issues regarding WIE. University of Moratuwa SB is willing to assist other SBs in Sri Lanka to form their own WIE groups to enhance the involvement of female engineering students and professionals in IEEE related activities.

There were number of specific issues discussed in the WIE group discussion. Some of them were; Why Sri Lankan parents discourage girls entering into engineering field? Why girls are less in Sri Lankan Engineering Faculties? Is this a common scenario in other countries? An Engineer cannot afford all the household work a house wife does, what is the solution? What can WIE do to encourage women getting involved in engineering professions? Depending on the facts discussed, a new project will be launched to encourage female students in schools through increased awareness. Female members of student branches, Dr.Takako Hashimoto and Miss. Tooba Ahmed, a student participant from Australia also took part in the discussion.

Mr. Rayees Nishad presented a comprehensive introduction about IEEE GOLD. The group discussion was also fruitful due to the important facts discussed. Dr. Zia Ahmed emphasized on the importance of having a active mentoring program, and on how much the senior members are interested in helping out the young fresh members. Mr. Om Prakash introduced the STEP program for GOLD society and its importance to a newly founded club. Prof. Sisil Kumarawadu from the University of Moratuwa highlighted the importance of being professional in working as IEEE GOLD and advised on general etiquette which is accepted for professionals. IEEE GOLD Sri Lanka Chair, Vice-Chair and student members also also took part in the discussion.

Arjun R Pillai conducted the GINI introduction and discussion, which was very beneficial to all SBs present. His presentation covered a wide area, explaining types of projects Student Branches can initiate, funding methods, resources available for the members and many other important facts which most of the members were not aware of. The discussion was made fruitful especially with the questions brought up by the audience. GINI concept was well explained and representatives from all SBs in Sri Lanka agreed to use it as the model to create a network among SBs in Sri Lanka.

Members from all active SBs in Sri Lanka were present at the event. It was the spot light of the year's events and a historical moment for our SB hosting the first ever SGW Congress in Sri Lanka.

Suboda Charles, Editor, Newsletter Committee, IEEE University of Moratuwa Student Branch

Participants of the First Sri Lankan Student/GOLD/WIE Congress at the University of Moratuwa

Inaguration of IEEE Student Chapter at Usha Rama College Of Engineering And Technology, Telaprolu, India

The IEEE Student Chapter was inaugurated in Usha Rama College of Engineering and Technology, Vijayawada, AP, India. The inauguration was precided over by Sri. Sunkara Ajay, Director, Usha Rama College of Engineering (URCE) and Technology along with Dr. G .V. K. S. V. Prasad, Principal URCE and Sri J Ravikumar, Head of EEE Department and IEEE Student Branch Counselor.

The guests of honour for this event were Sri K. S. K. Dave, Assistant Divisional Engineer AP TRANSCO and Sri P. Srihari, IEEE Student activity Chair, IEEE-Hyderabad Section.

The chief guest Sri.K. S. K. Dave presented a guest lecture on "Power system Automation and SCADA". A total 35 IEEE Students and 98 Non-IEEE members attended guest lecture.

Sri P. Srihari garu enlightened the students about the benefits of forming an IEEE Student Chapter and underlined the importance of taking this forward as it provides a technical edge apart from regular academic curriculum.

The principal Dr. G. V .K. S. V. Prasad garu and Sri J. Ravikumar stressed the need for students to take active part in organizing these events and to address the present problems faced by the engineers.

The Director Sri.Sunkara Ajay urged the students to be innovative and strive for excellence and vouched to extend the support in further strengthening of IEEE Student Chapter at URCE and contributed Rs.100,000 for the same.

V. Manoj Brahma, Chair IEEE SB,Usha Rama College of Engg. & Tech, Vijayawada, AP, India

RUET Student Branch, Bangladesh
Project Competition And Seminar

"Electronic project competition" and a seminar on "Job marketing: How to sell yourself" was held at RUET on Saturday 10th December 2011. It was jointly organized by IEEE RUET Student Branch and Dept. of ETE, RUET.

Prof. Dr. Muhammad Abdul Goffar Khan, Dean of ECE faculty and also the Counselor of IEEE RUET SB presided over the program and many other teachers of RUET including Dr. S. M. Abdur Razzak, Head of ETE Department. and the advisor of IEEE RUET SB were present. The event was all about providing students a chance to showcase their talents by overcoming possible technical hurdles and re-inventing the sense of competition. Student of all departments of RUET participated in the competition. There were two categories to participate, group project and individual project event. The competition was inaugurated by Prof. Dr. Muhammad Abdul Goffar Khan. Chief Guest, in the presence of judges of the competition, teachers and students of RUET and many visitors who came to see the projects. A spectacular collection of hardware projects were displayed. The students put in an applaudable effort and via these projects not only did they present new and innovative ideas but also proposed and modeled different practical solutions to many problems. The projects were evaluated in terms of perception, presentation, hardware and applications by the evaluation team.

After the projects display, a seminar was held on "Job marketing: How to sell yourself". Engr. A H M Mohiuddin, Manager of Dhaka Electric Power Distribution company who is also the Chair of IEEE PES Chapter of Bangladesh Section facilitated the seminar session. After seminar, prizes and certificates were given to the winners. The project "Water level indicator cum automatic water pump controller device" was the winner of the group project competition. The project "Automatic one way door" was the winner of the individual project competition.

Saurav Abid Rahman, Student Coordinator
IEEE RUET Student Branch

IEEE Student Branch ASET, New Delhi

A Sojourn Through Colossus'12

Colossus'12 was the first technical festival organized on January 21 - 22 by IEEE Student Branch of Amity School of Engineering & Technology (ASET), Bijwasan, New Delhi. The two days of extravaganza saw overwhelming participation from IEEE Student Branches of Delhi Section & many other colleges.

The fest was inaugurated by our esteemed chief guests Mr. B. P. Singh, ASET Senior Director and Mr. Sanjeev Kumar, Branch Counselor of IEEE SB ASET as well as several other senior faculty members present during the lamp lighting ceremony.

Colossus took more than six months of careful planning to materialize from a cherished dream to reality. Different committees were formed to look after every aspect of this technical fest. The members of each committee worked round the clock during the run up to this huge event to ensure that no glitches would surface on the day.

Throughout the duration of the technical festival, the college was bustling with activities. A total of three online & twelve offline events were organized during the festival. Students from different colleges were seen to be enthusiastically registering themselves for various events & workshops.

The online events namely Pixel: Photography Contest, Word War: Article Writing Competition & Krack & Track: Treasure Hunt were organized for two weeks before the festival. These events were great success with participation of students as well as professionals.

Events judging every other talent like technical writing skills, programming, debating, hacking, entrepreneurship skills, etc. were organized. Not just core technical, but some fun activities like Googly Tone: Treasure Hunt, Beatfusion: DJ mixing, Gaming, Sci-fi Movie watching were also a part of the festival.

IEEE ASET collaborated with various Student Branches of IEEE Delhi Section like ITMU, GTBIT, MSIT & NSIT for organizing events in the fest. The Colossus team feels indebted to each of these colleges and expresses gratitude for all the help that these colleges provided.

True to its name, the fest enjoyed colossal success. The fest has helped in fostering stronger ties with other colleges. The young members of IEEE- ASET are a restless lot who have stars in their eyes and have already begun planning for Colossus'13 as they aim it make it even larger next time.

Richa Sharma
Chair IEEE ASET, New Delhi, India

Members celebrating spirit of togetherness at Colossus'12

IEEE Maulana Azad National Institute of Technology, Bhopal (India) Student Branch

'AARAMBH' - An Initiative

AARAMBH is an outreach program conducted by IEEE Maulana Azad National Institute of Technology (MANIT) Students' Branch with an intrinsic aim to promote science not as a school subject but as a part of day to day life and career interest to the children of underprivileged sections of society. Needless to justify, children need to realize the importance of science in their school days, so that as they grow up, they can have a rational perspective and live a healthy and prosperous lives. The idea is to popularize science as a way to understand life and to feel the things happening around by reaching children from deprived communities, who are getting elementary education in some government or convent schools with basic problems such as lack of quality teaching, improper infrastructure, lack of guidance, inadequate atmosphere. The goal of Aarambh is to develop a 'You can do it!' spirit among school children from less privileged families, and foster encouragement for purposeful life. This ambitious activity by the student members of IEEE MANIT Students' Branch, has been initiated on very comprehensive objectives, with the purpose of not to change the world but to include youth in social humanitarian tasks for their own personality development, at the same time serving society by rendering their basic science and engineering skills to develop low-cost science teaching aids for children. IEEE MANIT Student Members, by involving in this novel activity help underprivileged children by interacting with them, teaching them and inspiring them. Engineering students make innovative teaching aids to teach basic science in everyday life concepts with waste materials and scratch which is easily available in any household. Some of the teaching aids are low-cost model of DC motor, low-cost Magnetic Levitation etc. Models to be demonstrated were carefully selected keeping in mind that they can relate it with day to day happenings and can understand easily and can ignite a fire in their mind.

school children trying to understand the concept of magnetic leviationton through a low-cost demonstration aid developed by volunteers of AARAMBH.

Aarambh has been planned to be a long-term activity of Students' Branch. We plan to visit atleast 5 schools every month, with atleast 8 members visiting a school every week, thus covering more than 60 schools a year. Few exceptionally talented students from schools visited will be given voluntary mentorship by IEEE Members through the

mediation of Team Aarambh. Development of innovative do-it-yourself toys and aids is the crux of Aarambh and this is what makes it different from activities by other NGOs. Distribution of teaching-aids and tools to schools or giving away raw materials to children so that they can make it themselves is it's distinct feature. The teachers and principal of these schools appreciated the format of this activity and congratulated office-bearers of IEEE MANIT Student Branch for their novel motive behind this. IEEE cares – that is what IEEE MANIT portrayed as the members visit slum schools, municipality schools, village schools etc by sheer knowledge and compassion. The budding future of the nation listens in stunned silence as they found out ways to enrich their lives with vision and values. The members tell them about the challenges and the road ahead. There's always something to learn from kids and with their unmatched enthusiasm and smiling faces, the team definitely struck a chord

Volunteers of Aarambh with school children

Arpit Srivastava
Vice-Chair IEEE MANIT Student Branch

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IEEE PNEC Student Branch, Pakistan

SPARKLE

As per the motto of IEEE Pakistan Naval Engineering College (PNEC) to make successful technical & professional engineers, we needed a platform where students would be taught not for the purpose of appearing in an examination but to mark a prominent increase in their knowledge. And hence SPARKLE was introduced to provide wholesome interaction between the students & the instructors outside the realm of regular syllabi.

SPARKLE stands for System Providing Access to Research, Knowledge, Learning & Education. As the name suggests, it is a platform for students to gather at one place and discuss ideas that would lead to a progressive culture of research.

The idea of SPARKLE came from the fact that since the topics that are necessary for an engineer to excel in his field cannot be covered over a short period, IEEE PNEC as a society needs to cater to that. In order to bring the innovative minds of the endowed faculty, as well as the students, a weekly program of technology talk has been initiated by IEEE PNEC. These talks are not the same as the regular lectures that we attend as a part of coursework. Instead, they are short and concise. The topics in the tech talk are varied ranging from controls to communications, automation to technical systems, Final Year Projects to robotics & exchange program scholarships to sustaining one's work life.

The first SPARKLE was conducted by Mr. Hassan Idrees who shared his experiences of attending the R10 Students Congress held in Auckland, New Zealand.

The second session was conducted by Dr. Sameer Qazi on Fundamentals of GSM Technology. He explained the workings of GSM technology and also the different technologies associated with it like 2G, 3G, 4G, CDMA, Wi Max and EDGE technologies.

The third session was conducted by Dr. Bilal Khawaja on Recent Advancements in Optical Communication. The different channels of communication and optical fiber communications were discussed in detail. He also explained the importance of optical communication in today's world due to the exponential increase of bandwidth requirements daily.

The fourth session was conducted by Dr. Athar Mehboob on Data Encryption and its Practical Implementation. Dr. Athar explained the various techniques of cryptography used. He also explained the encryption and encoding algorithms. He also explained a practical example of a device he had implemented which is used for secured communication using encryption.

The fifth session was conducted by Miss Mehwish Anwar, Trainee Engineer at PIA. She talked about the problems faced by women in the field and how to successfully overcome them.

The sixth session was conducted by Miss Sughra Mehdi and Mr. Mutsaied Shirazi on the Do's and Don'ts of Final Year Project. They explained the procedure on selecting your topic and how to go about it.

The seventh session was conducted by Dean Electronics and Power Engineering, Capt. Babur on How to be Irreplaceable at Work. He gave 5 tips which were to focus on Results, Enthusiasm, Attitude, Co-operation and Honesty.

Syed Onib Nasir
Chair IEEE PNEC Student Branch

IEEE Student Branch IIIT Bhubaneswar, India

Inagural of Student Branch

Adding a fresh vision to its arena IIIT Bhubaneswar organised a one-day function to inaugurate its student branch of IEEE society. The whole celebration started with a very awe-inspiring aura, an enlightening speech by the Dean Prof. Ajit Kumar Das and Guest of Honour, Prof. Sudarsan Padhy. Our honourable chief guest Dr. Sivaji Chakravorti paramounted his words of wisdom and his solemn remarks towards students, and his indelible respect for the bond between a teacher and a disciple. His tranquil and proficient persona amazed everyone. Prof. Chakravorti

laid down a strong foundation of the branch and gave a brief introduction to 'What it means to be an IEEE member'. He delivered a talk labelled "LAB TO MATLAB", which highlighted the steps to be a perfect professional engineer throwing light on PBL (Problem Based Learning). He also launched our first newsletter "NIeeeWS". Prizes were awarded to the winners of various events like technical paper presentation, quiz and TechnoHunt held by IEEE student branch. Amidst everything no one can alter the fact that the function was a great success.

Sivaji Chakravorti
Chair, IEEE Kolkata Section

IEEE NED Student Branch, Pakistan

A taste of Research and Scholarship for undergraduates at NED University

The forging of strong connections between students, engineers and professionals at the R10SC 2011 in Auckland was one of the most remarkable outcomes of the Congress. Building on these networks under GINI Pakistan, was a seminar delivered by two PhD students of the University of Auckland at the NED University of Engineering and Technology by IEEE NED Student Branch on 21 January 2012.

The two-hour session was conducted to inculcate interest in research among young undergraduates and to engage their interest in scholarships for postgraduate studies in reputable international universities. The speakers were Dr Waqar A Qureshi, an Electrical Engineer and an emerging researcher with focus on energy and environment and Dr Adeel Ali, a Software Engineer, who has had the honour of presenting his research in renowned international universities in USA. Dr Qureshi held the audience in trance as he spoke on the promising field of harnessing wind energy into the grid and its efficiency as a reliable renewable energy source. He stressed on the need on how basic research is essential for solving the energy crisis and piqued the interest of students as well as the faculty members present. This was followed by an interactive presentation by Dr Ali on building algorithms. His oratory style engineered a highly responsiveness and positive interaction from the audience. Later, the presenters delved on a Q&A session on opportunities for international postgraduate studies, which proved very helpful and the audience appreciated the need for such mentoring discussions for students and engineers. It truly was a treat to see the appeal of scholarship on talented engineers and IEEE volunteers of NED University and the extent to which they wanted to take their fields of interest to.

'The seminar was really informative, it provide us engineers a new picture of technology, and I would love to host such sessions at NED University again', said Adil Jaliawala, one of the organisers. In all, the session drew on one of the large students events of R10 and all those involved were delighted to have built life-long fruitful relationships, for such off-shoot initiatives are an essence of the extensive Region-wide events.

Hassaan Idrees, Lead GINI Pakistan, and
Ahsan Saeed, Chair IEEE NED Student Branch

Upcoming IEEE Conferences in Region 10

2012 International Symposium on Communications and Information Technologies (ISCIT) 2 - 5 October 2012
Conference Location: Gold Coast, Queensland, Australia
Sponsored By: IEEE Circuits and Systems Society and Queensland Section SPS/CS Joint Chapter
Final Paper Submission Deadline: 7 May 2012
http://www.iscit2012.org

2012 International Conference of Agricultural Engineering (ICAE) 15 - 17 Jun 2012
Conference Location: Harbin, China
Sponsored By: Harbin Section
Abstract Submission Deadline: 10 May 2012
Final Paper Submission Deadline: 20 May 2012
http://ieee2011.neau.edu.cn/eng.asp?action=2

2012 International Conference on Cyber Security, Cyber Warfare and Digital Forensic (CyberSec)
26 - 28 Jun 2012
Conference Location: Kuala Lumpur, Malaysia
Sponsored By: Malaysia Section C Chapter
Abstract Submission Deadline: 30 Mar 2012
Final Paper Submission Deadline: 10 May 2012
http://www.sdiwc.net/CyberSec2012/

2012 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (CIMSA) 02 - 04 Jul 2012
Conference Location: Tianjin, China
Sponsored By: Computational Intelligence Society - CIS, Instrumentation and Measurement Society - IM
Abstract Submission Deadline: 15 Apr 2012
Final Paper Submission Deadline: 01 Jul 2012
http://cimsa2012.ieee-ims.org/

2012 IEEE International Conference on Virtual Environments, Human-Computer Interfaces and Measurement Systems (VECIMS) 02 - 04 Jul 2012
Conference Location: Tianjin, China
Sponsor: Instrumentation and Measurement Society - IM
Abstract Submission Deadline: 15 Apr 2012
Final Paper Submission Deadline: 01 Jul 2012
http://vecims2012.ieee-ims.org/

2012 4th International Conference on Knowledge and Smart Technology (KST) 07 - 08 Jul 2012
Conference Location: Chonburi, Thailand
Sponsored By: Thailand Section
Abstract Submission Deadline: 15 Apr 2012
Final Paper Submission Deadline: 15 Apr 2012
http://kst.buu.ac.th/

2012 Third International Conference on Intelligent Control and Information Processing (ICICIP)
15 - 17 Jul 2012
Conference Location: Dalian, China
Sponsored By: Harbin Section
Abstract Submission Deadline: 01 Apr 2012
Final Paper Submission Deadline: 01 Jun 2012
http://icicip.dlut.edu.cn/

2012 International Conference on Advances in Power Conversion and Energy Technologies (APCET)
02 - 04 Aug 2012
Conference Location: Mylavaram, Andhra Pradesh, India
Sponsored By: Hyderabad Section
Abstract Submission Deadline: 31 Mar 2012
Final Paper Submission Deadline: 31 May 2012
http://www.lbrce.ac.in/apcet

2012 2nd International Conference on Uncertainty Reasoning and Knowledge Engineering (URKE)
14 - 15 Aug 2012
Conference Location: Jalarta, Indonesia
Sponsored By: Indonesia Section
Abstract Submission Deadline: 01 May 2012
Final Paper Submission Deadline: 01 Jul 2012
http://www.iamsie.org/urke

2012 IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE)
20 - 23 Aug 2012
Conference Location: Hong Kong, China
Sponsored By: Education Society - E, Hong Kong Section
Abstract Submission Deadline: 05 Apr 2012
Final Paper Submission Deadline: 30 Jun 2012
http://www.tale-conference.org/

2012 International Conference on Computer Science and Information Processing (CSIP) 24 - 26 Aug 2012
Conference Location: Xian, Shaanxi, China
Sponsored By: Xian Section
Abstract Submission Deadline: 05 Apr 2012
Final Paper Submission Deadline: 15 May 2012
http://cs.xatu.cn/CSIP2012/index.htm

2012 Sixth International Conference on Genetic and Evolutionary Computing (ICGEC) 25 - 28 Aug 2012
Conference Location: Kitakyushu, Japan
Sponsored By: Tainan Section
Abstract Submission Deadline: 31 May 2012
Final Paper Submission Deadline: 15 Jul 2012
http://bit.kuas.edu.tw/~icgec12

2012 8th International Conference on Computing and Networking Technology (INC, ICCIS and ICMIC)
27 - 29 Aug 2012
Conference Location: Gyeongju, Korea (South)
Sponsored By: Korea Council
Abstract Submission Deadline: 02 Apr 2012
Final Paper Submission Deadline: 18 Jun 2012
http://www.aicit.org/iccnt

2012 International Conference on Statistics in Science, Business and Engineering (ICSSBE2012)
10 - 12 Sep 2012
Conference Location: Langkawi, Kedah, Malaysia
Sponsored By: Malaysia Section C Chapter
Abstract Submission Deadline: 01 Jun 2012
Final Paper Submission Deadline: 30 Jul 2012
http://www.icssbe2012.com/

2012 IEEE MTT-S International Microwave Workshop Series on Millimeter Wave Wireless Technology and Applications (IMWS) 18 - 20 Sep 2012
Conference Location: Nanjing, China
Sponsor: Microwave Theory and Techniques Society - MTT
Abstract Submission Deadline: 31 May 2012
Final Paper Submission Deadline: 31 Jul 2012
http://www.emfield.org/imws2012

2012 8th International Conference on Information Processing, Management and Intelligent Information Technology (ICIPM and ICIIP) 18 - 20 Sep 2012
Conference Location: Kyoto, Japan
Sponsored By: Korea Council
Abstract Submission Deadline: 25 May 2012
Final Paper Submission Deadline: 11 Jul 2012
http://www.aicit.org/icipt

2012 10th IEEE International Conference on Semiconductor Electronics (ICSE) 19 - 21 Sep 2012
Conference Location: Kuala Lumpur, Malaysia
Sponsored By: Malaysia Section ED Chapter
Abstract Submission Deadline: 30 May 2012
Final Paper Submission Deadline: 15 Aug 2012
http://ieeemalaysia-eds.org/icse2012/

2012 37th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz 2012) 23 - 28 Sep 2012
Conference Location: Wollongong, NSW, Australia
Sponsored By: Microwave Theory and Techniques Society - MTT
Abstract Submission Deadline: 20 Apr 2012
Final Paper Submission Deadline: 06 Jul 2012
http://www.irmmw-thz2012.com/

2012 IEEE Conference on Control, Systems & Industrial Informatics (ICCSII) 23 - 26 Sep 2012
Conference Location: Bandung, Indonesia
Sponsored By: Indonesia Section CS/RA Joint Chapter
Abstract Submission Deadline: 15 May 2012
Final Paper Submission Deadline: 01 Aug 2012
http://www.iccsii.org/

2012 IEEE Third International Conference on Sustainable Energy Technologies (ICSET)
24 - 27 Sep 2012
Conference Location: Kathmandu, Nepal
Sponsored By: Singapore Section IA/PEL Joint Chapter
Abstract Submission Deadline: 15 Apr 2012
Final Paper Submission Deadline: 08 Jul 2012
http://www.ieee-icset.org/

2012 8th International Conference on New Trends in Information Science, Service Science and Data Mining (NISS, ICMIA and NASNIT) 23 - 25 Oct 2012
Conference Location: Taipei, Taiwan
Sponsored By: Korea Council
Abstract Submission Deadline: 02 Jul 2012
Final Paper Submission Deadline: 17 Aug 2012
http://www.aicit.org/issdm