

IEEE India Council News Letter Vol. 7 Number 3 March 2012

IEEE The Institute of Electrical and Electronics Engineers. Inc

# **Message from Chairman**

Dear Members,

Greetings from IEEE INDIA COUNCIL.



The New Executive Committee as proposed by the nomination Committee has taken over and the First Ex. Committee meeting was held in Kolkatta in conjunction with IEEE R10 meeting. The MVC Student contest and All India Student Congress to be held in this will be given the highest periorty.

First time, The Ministry of External Affairs India is associating IEEE India Council for the International Student Interaction Coordination. A Delegation participating in the Indo-Saudi Youth Forum led by H.E. Ambassador Dr. Yousef Terad Al Saadon, Deputy Minister of Foreign Affairs for Economic and Cultural Affairs Saudi Arabia is visiting India from 21 march to 2 April 2012. It will be a 44 member delegation consisting of 28 young students from Information Technology / Electronics / Communication engineering background.

We plan to have an interaction between Indian engineering students (IEEE Student Branches) and members of the visiting Saudi delegation in each city they visit.

The dates of the visit of the delegation are: Hyderabad - 21 - 24 March Bangalore - 24-28 March Delhi - 28 March - 1 April Many more such cooperative programmes will be coming? Are you ready for these?

Thanks for your kind support and Looking forward for your inputs.

Dr. Ram Gopal Gupta

General Chair, ICTEE 2012 Chair, IEEE Education Society Chapter, India

## IT in February 2012

Prof. S. Sadagopan



#### <u>General</u>

- On February 18, 2012 India celebrates its "centenary of civil aviation" that started between Allahabad and Naini, one hundred years back
- On February 2, 2012 Supreme Course cancels all 121 licenses issued by the former Telecom Minister Raja
- Elections in Uttar Pradesh, Uttarakhand, Punjab, Goa and Manipur started in February; to be completed by March 4; results expected by March 6, 2012
- Shivsena-BJP combine retain control of Mumbai and other municipal bodies in Maharashtra by winning Elections on February 16, 2012
- The "age controversy" of Army Chief VK Singh kept India busy; Supreme Court finds fault with Government on the "procedure" on February 3, 2012; upholds Government decision on February 10, 2012, and finally, the Army Chief withdraws his case on February 10, 2012, leaving behind a "not-so-pleasant" situation in the history of Armed Forces of the country
- · Shoot-out incident at Israel Embassy in India on February 13, 2012

#### Products

- Microsoft launched its Windows 8 consumer preview at Mobile World Congress at Barcelona on February 28,2012
- Nokia launched its Preview 808 (Symbian powered) phone with an amazing 41 megapixel camera and Asha 302 low-cost smart phone with Push Mail, once again at Mobile World Congress at Barcelona on February 28, 2012
- Apple launched its developer edition of Mountain Tiger OS on February 15, 2012

#### Markets

- Flipkart (India's largest online retailer today) buys electronics online retailer LetsBuy for more than \$ 25 million on February 9, 2012
- Oracle to buy cloud firm Taleo in talent management space for \$ 1.9 billion on February 9, 2012
- **Cisco** buys into AR Rahman & Shekhar Kapoor founded **Qyuki** for Rs. 27 crores on February 14, 2012
- **Facebook** announced its IPO decision on February 1, 2012, but likely to be several months before the actual process materializes
- **General Motors** makes \$ 9.2 billion profit in 2011!
- Sensex (Indian Stock Exchange Index) falls by 478 points on February 27, 2012, the steepest 1-day fall in 5 months

#### Indian IT companies

- Calendar year 2011 revenues for the top 4 Indian companies stood at TCS (in billion \$)
  - o **TCS** 9.77
  - o **Infosys** 6.83
  - o **Cognizant** 6.12
  - o **Wipro** 5.79
- Cognizant bags 5-year IT contract from Future Group (India's top tier retailer) on February 13, 2012

#### MMC IT companies in India

- **Cisco** to increase Bangalore head count from 7,500 to 12,000 by 2015
- Automation major Honeywell starts 4th India development Center in Gurgaon on February 14, 2012
- The world's largest online retailer Amazon starts India operations thru Junglee on February 1, 2012
- · Bangalore operations plays a key role in their Canadian foray for the US retail giant Target Corporation

#### <u>Telecom</u>

• Telecom license cancellation by Supreme Court on February 2, 2012 leads to a messy situation

#### Education & Research

· Japan's No 1 research university University of Tokyo opens India office in Bangalore on February 27, 2012

### Center Technical Associate of IEEE

We would like to take this opportunity to introduce Freddy Lim - Contact Center Technical Associate of IEEE who will be based in the Singapore office. He will be the first physical extension of the IEEE Contact Center in the Asia Pacific Region and with that, we hope to be able to provide more responsive support to all our members especially those in Region 10.

Having a physical presence in the Region will provide ease of access to the Contact Center staff and allow us to better understand the needs and expectations of our members..

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 >> <u>https://supportcenter.ieee.org</u>

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

We always value your constant feedback on how to better improve our support to IEEE members. Thank you for your continued support and trust in IEEE.

Yours Sincerely, Fanny Su

Fanny Su (Manager) IEEE Asia Pacific Operations Centre/ Communications Society Office No. 1, Fusionopolis Walk, #04-07, South Tower, Solaris Singapore 138628

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# **ALL INDIA GINI FACE TO FACE MEET 2012**

**Compiled by:** Praveen Vinny, Secretary, Sathyabama Student Branch **Reviewed and Reported by:** Apoorva P Naidu, Reporting Secretary GINI MAS

IEEE Madras Section Global Integrated Network of IEEE (GINI MAS) organized the All India GINI Face To Face (F2F) Meet'12 at Sathyabama University, Chennai on the 4<sup>th</sup> and 5<sup>th</sup> (Saturday and Sunday) of Feb 2012. The inaugural function commenced with the Tamizh Thai Vazhuthu. The IEEE Student Branch Vice-Chair, Ms. Swetha Kumari delivered the welcome address. Er.T.S. Rangarajan, Chairman, IEEE Madras Section, Er.Prasanna Venkatesan, R10 GINI Coordinator and Er.Jaison Abey Sabu, Chairman, GINI-India, were the dignitaries on the dais. The lighting of the lamp by the guests marked the inaugural ceremony. The GINI Madras Organizing team had charted a productive agenda for two days in a manner that would enable discussion and trigger ideas through brainstorming.

Mr. Shrawan, Student Branch Treasurer, briefed on the Global Integrated Network of IEEE. The main objective of GINI is to enhance and encourage communication between student branches initially at section level, then spreading it at India Council Level and finally at Region 10 Level. Er.Rangarajan, Chairman, IEEE Madras Section was felicitated by Dr.Suryakala, Branch Counselor, IEEE SB, Sathyabama University. Er.Rangarajan addressed the gathering and shared the silver jubilee experience of IEEE Madras Section. Er.Prasanna Venkatesan explained the phases of growth of IEEE. Er.Jaison explained the needs of GINI. Victor Dhar, the Treasurer of Sathyabama University Student Branch shared the achievements of the IEEE Student Branch of the Sathyabama University.

The inaugural meeting concluded with the vote of thanks by Rahul Sahay, Chairman, Sathyabama University Student Branch

The GINI F2F was planned with an idea to bring together the GINI Volunteers from across India who had been working actively in their respective sections and make them interact with each other for the betterment of Student Activities in India. Active Student GINI Volunteers from across the country were invited and he had more than 50 delegates from Delhi, Madras, Hyderabad, Bangalore and Kerala Sections. We also had few invited GOLD Members participating from each section to mentor the GINI Volunteers. The Host Section had few more active Student Branch Volunteers participating in the event.

GINI India aimed to establish strong hold on three different sub-areas viz., Student Branch Networking (SBN), Industrial Relations (IR) and Collaboration Platform (CP)

Day 1 of the F2F started right after the Inaugural session.

Er. Prasanna Venkatesan gave a very informative talk on how IEEE plays a major role in the growth of technology. He threw light on the various level of IEEE as an organization. He also emphasized the importance of IEEE digital library. The volunteers were really glued to their seats as they felt the global expanse of the organization in which they are part of.

Soon after this, people from different IEEE sections came up with their presentations on their previous year activities. Mr. Akshay from Kerala Section, Mr. Vibhor from Delhi section,

Mr. Imran from Hyderabad Section, Mr. Nipun Manral from Bangalore section and Mr. Anand /Mr. Harikrishnan from Madras Section explained the functioning of their respective sessions through their presentations. It was really great to see much of Student Activities happening in different domains across the country.



The GINI India Executive Committee had another break-out session to discuss the plans for the year 2012.

Students were then split into groups and they were allowed to interact between each other to discuss on improving the quantity and quality of Student Branch activities.

Post Lunch, We had a session on the roles and responsibilities of Student Branch officers by Er.Jaison. A veteran in Student Branch administration, he gave tips on organizing quality events and how to overcome the blocking stones hindering effective administration.

The delegates spent the rest of the evening discussing various issues faced in Student Branches and how best to tackle them professionally.

Day 2 started right away with the brainstorming within the groups moderated by Er. Arjun and mentored by the GOLD Volunteers. Major V.V.Chandrasekaran, Student Activities Chairman of Madras Section and Er.H.R.Mohan were also the part of the session. Different case studies on Membership Growth, Membership Sustenance/Retention and Issues faced in Student Branches were assigned to groups and it was great to see the volunteers from all participating sections, come out with great ideas. The SAC and the VC of the Section also added to the ideas and commented on the inferences of the brainstorming.

Kerala section proposed an action plan termed as Plan Do Check Act (PDCA) to attain sustainability. Er.Jaison concluded the session by highlighting the good ideas presented by the volunteers.

The floor was then open for questions and discussion on issues of membership, sustainability, industry relations and funding

Post lunch, Er.Jaison then presented the GINI India Strategy Plan 2012 in which he shared the various activities planned through GINI India on Industry relations, Collaborative Platform and Student Branch Networking

The delegates were honored with a certificate of participation by the SAC and Vice Chairman of Madras Section.

The two effective and productive days of discussion, brainstorming, planning and action came to an end with a Networking Tea.

The F2F, for sure was a grand success and it brought together brothers from different sections and created a professional bonding among them and the objective achieved.

On behalf of Sathyabama University Student Branch, I would like to thank all the guests for their valuable talks, and the motivation they bestowed upon the delegates with their presence and interaction.

### **Honouring Dr Faqir Chand Kohli**

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 "outstandingcontributions 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."



Receives the plaque L-R Mr Kirit Sheth, Dr Kohli, Dr M V Pitke (Chair 2011), Mr Ashok Jagatia (Chair 2012)

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



Being felicitated L-R Mr Kirit Sheth, Dr Kohli, Dr M V Pitke (Chair 2011), Mr Anthony Lobo (Vice Chair) Mr Ashok Jagatia (Chair 2012). Foreground MrHemant Sonawala, Past Chair

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.

### PES/IAS/PELS Joint Chapter, IEEE Hyderabad Sections 2-4 January 2012, Hyderabad; 3-day Intensive Workshop on " Design of industrial Power Distribution Systems, Shortcut Methods, Quick Estimation and application Guidelines"

One of the objectives of this 3-days intensive IEEE Industry Applications Society workshop is to motivate young engineers to be an integral part of the exciting and challenging field. This workshop introduced the basic tools required for all power systems design calculations which are utilized in designing the industrial power distribution systems. The primary focus of this course was on the medium voltage (MV) and low voltage (LV) power systems with some references to the sub-transmission system. Numerous real world design problems with emphasis on quick estimations were solved during the entire workshop. The workshop was handled by Dr.P.K.Sen, from Collarado School of Mines, USA and Dr.K.Rajamani, Chief Consultant, Reliance Power, Mumbaiout of

Some of the topics covered in this workshop are

- · Scope of Electric Power Distribution Engineering and Characteristics of Power Distribution Systems.
- Utility and Industrial or Commercial Users Perspective.
- · Power System Fundamentals, Understanding Load and "Key" Design Tools.
- · 3-Phase Fault (Short-Circuit) Calculations.
- · Design of an Industrial Power Distribution System.
- Power Systems Protection, Step-by-Step Procedure in Protection, Coordination and Design; Two case Studies.
- Transformer Engineering, Basics and Procurement Design Problem No. 1, Simplified Design Calculations, Transformer sizing, Selection of Voltage, One-line Diagram; Quick Cost Estimate.
- · Induction Motor and its Design Fundamentals, Equivalent Circuit and Performance Evaluation.

The event has recorded the participation of Industry participants by more than 50%.. There were IEEE Awareness Stalls arranged by the Volunteers for encouraging people to join IEEE and know the benefits of their memberships.

# Region 10 Student Branch Website contest Announcement

Dear Student Branch Leaders / Officers,

The IEEE Region-10 website contest is a yearly opportunity for student branches in Asia Pacific to interact, compete and learn from one another. 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 in an electronic way. 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 Web Site Contest organized by MGA at the global level.

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

Ø At stage 2, All Regions including Region-10 submit the top entry to the IEEE Student Branch Web Site 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

Note: Originality and presentation will not be judged in this category.

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, Content is 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 (<u>http://www.r10sac.org/activities/competitions/website/register.html</u>).

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





# CALL FOR PAPERS 2012 Annual IEEE India Conference

International Conference on Innovations in Social and Humanitarian Engineering

07-09 December 2012 | Rajagiri School of Engineering & Technology, Kochi, Kerala, India

Organised By - IEEE Kerala Section jointly with IEEE India Council

#### http://www.indicon2012.org

There is a growing trend around the world for engineer ing to address issues of human development. INDICON 2012 brings together adiverse community of engineers In a quest for technologically appropriate, environmentally sustainable, socially acceptable and economically sound solutions. The conference tries to stimulate and foster engineers to work towards innovative and technology-based solutions to address the most compelling challenges facing the humanity today. In alignment with IEEE's core vision of advancing technology for humanity, the theme of the conference is "Innovations in Social and Humanitarian Engineering".

Consistent with the above theme, we invite participation and contribution of original research works in the myriad of topics listed below as well as from related areas:

### **POWER & ENERGY**

Power Quality - Smart Grids - Design, Control and Management – Demand Response - Advanced Metering Infrastructure – Interoperability Standards Home Energy Management Systems – Protection - RAM (Reliability, Availability, Mainta inability) - Grid integration of renewable energy source -plug-in electric vehicles - co-energy - distributed generation - efficiency and conservation - Solar energy - Hydro energy - Wind energy - wind turbines - Ocean energy: tidal and wave -Biomass, Biofuels - Energy Harvesting - other alternative and renewable means of power generation

### **COMMUNICATIONS & NETWORKING**

Channel measurements and modeling - Coding and modulation techniques - OFDM technology -Cognitive Radio - Antennas and propagation - MIMO - theory and trials - Spread Spectrum and CDMA systems - Space-time coding, Ultra Wide-Band Communications - Broadband Wireless Access, Next-generation Networks, Secure communications - Mobile ad-hoc, Mesh, Cooperative, Sensor Networks - Home networking -Cross Layer Design -Embedded Internet devices - New and enhanced services - Resource and information management - Adaptive QoS provisioning -End-to-end QoS - Optical Communications and Networks

### **COMPUTATIONAL SCIENCE & ENGINEERING**

Intelligent and Bio-inspired Computing - Distributed and Parallel Computing – Multi-core and GPU Computing – High Performance Computing – Database and Data Mining - Cluster, Grid, P2P

and Cloud Computing - Mobile Computing - CSE Education -Sc ientific and Engineering Computing - Embedded and Ubiquitous Computing - Advanced Networking and Applications -Security, Privacy and Trust - Service and Internet Computing - Dependable, Reliable and Autonomic Computing - CSE applications (bioinformatics, global optimization problems, computer graphics and multimedia, data mining, signal and image processing, etc)

#### SIGNAL PROCESSING & VLSI

Signal Processing Algorithms & Architectures - Smart antennas and tracking algorithms - Signal separation & identification - Adaptive and Array Signal Processing - Audio, Speech, Image & Video Signal Processing - Underwater Communications and Signal Processing - VLSI for Communication & Signal Processing - Non-linear and Biomedical Signal Processing - Spoken Language Processing - Unconventional Applications of Signal Processing - Compressive Sensing and Applications - Detection and Estimation Techniques - Emerging Trends in VLSI - Nanoelectronics -MEMS, VLSI Circuits and Systems - Field-programmable and Reconfigurable Systems - System Level Design - System-on-a-Chip De sign - System Issues in Complexity - Low Power, Heat Dissipation - Power Awareness in VLSI Desi gn - Test and Verification - Mixed-Signal Design and Analysis - Electrical/Packaging Co-Design

#### INTERDISCIPLINARY & HUMANITARIAN ENGINEERING

Disaster management - Distributed Generation & Communications Solutions for Isolated -Communities, Solutions for the Differently-abled Spaces - Applications for Development -Preventive Humanitarian Action - Environmental Engineering - Climate Change Mitigation & Adaptations - Sustainable Energy Use -Education Technologies - Enabling Technologies for Human Development - Engineering for Common Property Resources (Agriculture, Forestry, Fisheries) - ICT use in Social Development, Biomedical and Medical Technologies Logistics & Transportation Engineering, Water Resources Management, e-Waste engineering

#### **IMPORTANT DATES**

Last date for Submissions of Abstracts	: 15-May-2012
Inimation of acceptance/modification/rejection	: 15-Jun-2012
Last date for submission of full papers	: 01-Aug-2012
Intimation of acceptance of papers	: 30-Sep-2012
Author Registration	: 01-0ct-2012
Camera-ready paper submission	: 01-Nov-2012

Accepted and presented papers will be published in the IEEE 2012 Conference Proceedings, in IEEE Xplore® and will be EI indexed. For paper format refer <a href="http://www.ieee.org/conferences\_events/conferences/publishing/templates.html">http://www.ieee.org/conferences</a> events/conferences/publishing/templates.html

Authors are invited to submit papers in electronic format through EasyChair. Login EasyChair through: <u>https://www.easychair.org/conferences/?conf=indicon2012</u>

For more details, please visit the Conference Website: <u>www.indicon2012.org</u>

For details, please contact: info@indicon2012.org

# National Workshop on SmartGrid & Integration of Renewable Energy Resources

National Institute of Technology (NIT) Warangal, December 22-24<sup>th</sup>, 2011:

PES/IAS/PELS Joint Chapter, IEEE Hyderabad Section in association with National Institute of Technology, Warangal conducted a 3 day National Level Workshop on SmartGrid and Integration of Renewable Energy Resources. The event witnessed large participation from various Governmental, NGO, Transco, Genco, Academia and Research Students. The program included hands on practice session on the Power System software, distinguished lectures from Industrial and Academic experts in India and from abroad.

The dignitaries who shared their experiences during the event include Sri. N S Sodha, Executive Director Power Grid, Dr. NDR Sarma of Electricity Reliability Council of Texas, USA, Mr. Amol Kolwalkar, GE Global Research , Bangalore, Sri. Sista Subrahmanyam, CTM Mahindra Satyam, Dr. Allabaksh Naikodi, AVP, Mr. Ashok Rama Rao, Solution lead, Utility Practices, Mahindra Satyam, Prof. M. Sydulu (Former Dean R&D, NITW), Prof. DVSS.Siva Sarma (Vice-Chair, PES), Dr. M.Sailaja Kumari (NITW) and Mr. Ramana Apparao from ABB Vadodara. Much of the senior speakers spent much of time answering the plentiful questions and motivating the participants and stressed on the necessity of having innovative development concepts and process to stay tall in the growing competitive market and concluded with the quote "Intelligence without ambition is a bird without wings....".



Other interesting sessions include 'Distribution System Automation Challenges, 'Integration of Wind farm into utility grid' & NEPLAN Software Demo/Practice, Wide area monitoring and protection, Smart waste energy management. Mr. S. AppaRao (Secretary, PES) from AP Transco also highlighted the Components of IS and IT in Power Stations.

# **Editor's Message**

#### Dear IEEE Members,

to newsletter with your articles, news from your local section/chapter and suggestion for improvement.

I hope you are receiving and reading IEEE India Info regularly. Please do contribute

I am regularly receiving complaints from various members, especially students regarding their membership card or non-receipt of Spectrum. Please note that IEEE

India Council can not help anyway in these regard. If you have any issue like that, kindly contact headquarter on <u>member-services@ieee.org</u>.

Kolkata section hosted IEEE Region 10 meeting this time, at the beginning of this month. Volunteers from 57 section of Region 10 met there and discussed intensively on various topics. India is having groing clout at Region 10 due to substantial increase in memberships and active participation from volunteers at Region level.

Again, requesting all members and students to contribute actively to Newsletter and use this forum to share your ideas with fellow IEEE Members across India.

With Best Wishes Hitesh Mehta Editor