



## Chairman's Message



Dear Members

IEEE awareness among people, industry associations and ministries of the government has seen a quantum jump after the IEEE 125th Anniversary global celebrations all over India and the world in 2009. The IEEE India Ad hoc Committee was a initiative in 2008 with the aim – Focus on India. The committee has recently submitted a report with its objectives and goals as.

Better understanding of the needs of the technology community in India

Develop productive relationships with industry

Increase IEEE's overall presence and impact; more technical activities

Increase the participation of Indian technology professionals in IEEE activities

Increase membership at all levels; more GOLD members; more active sections, chapters, student branches

The summary of the report is reproduced in this newsletter separately.

As a result of these developments, there are initiatives from different quarters for collaboration, cooperation and joint activities. Recently, Indian Electrical and Electronics Manufacturers Association desired to explore the possibility of cooperation between IEEE and IEEMA and organize an international conference on Transmission and Distribution of Electric Power along with industry exposition.

The IEEE-SA Corporate Advisory Group (CAG) is coming to India 8-12 March and will be in Bangalore on 8-9 March and in Delhi on 10-12. As a part of their outreach program, CAG meeting is scheduled on 8 March and a seminar 9 March in Bangalore at Leela Palace. I wish that IEEE Standards Associations outreach program is a success and various technical groups in R & D Institutions, Government bodies for standards and the industry take advantage of this program.

There has been extensive debate within the sections and members as to what is the role of Council. The members, sections as well as society chapters and student chapters expect variety of things from Council. However, the Council with its officers and committee members at geographically distant places and hardly meeting physically at one place within the country, has a challenge in meeting the expectation of all these groups. It is a challenge to even know and quantify these expectations let alone address them to some satisfaction. The limited financial resources of Council make the matters even

more difficult. After 34 years of Council's existence, it is time for members, sections and society chapters to come together to discuss the issues which can be addressed so that there is active cooperation between various IEEE units. On the strength of a vibrant Council, the IEEE in India can play a vital role in the challenges faced in India in health care, education, agriculture, rural connectivity, disaster management, and energy.

For the benefit of members, I would like to summarize and quote from the IEEE by-laws – the objectives and role of the Councils

The Council is formed pursuant to Section R-903 of the IEEE Bylaws and Section 9.3 of the MGA Operations Manual for the purpose of providing a centralized coordinating organization of all Sections within the geographical region. The Council is formed by agreement of the Sections, and it exists at their pleasure. It is intended to act as a subordinate committee of the Sections and they have the right to direct its operation. It is formed by the Sections to do only those delegated tasks that can be best done together by the Sections rather than singly by each Section.

The primary objectives of the Council are to:

- Further the aims and objectives of the IEEE.
- Coordinate the inter-Sectional activities of the constituent Sections.
- Provide effective representation and support for the constituent Sections.
- Promote countrywide IEEE activities.
- Assist with development of activities, especially the development of inter-Section Chapters.
- Provide for joint meetings of Sections, conferences and symposia within the Council, coordinate student activities within the Council and assist Sections and Chapters in the administration and documentation of activities within the Council. Coordinate International programs, activities and distinguished visitors with sections and society chapters.

You may like to send your comments and thoughts on the Council.

The India Info newsletter is hosted on the India Council website

[http://ewh.ieee.org/r10/india\\_council/newsletters.html](http://ewh.ieee.org/r10/india_council/newsletters.html)

With best wishes to you for a rewarding time ahead in professional and personal fronts.

**Kasi Rajgopal**  
[kasi.rajgopal@ieee.org](mailto:kasi.rajgopal@ieee.org)

## Message from India Council Secretary



Dear Members,

Hope you have started the New year with a big bang of technical activities. By the way, we are also required to publicize and report our activities in the desired formats at all levels in IEEE. The yearly reporting of this year falls due in the month of February, 2010. The Sections and Society Chapters are required to report the Meetings/Technical activities in Form L-31 and the Financial Reporting through Form L-50 on-line, besides submitting the Officer Nomination Form (even in case of no change in office bearers for the new year). All the above reporting requires completion by 19th February, 2010 to avail the 10% bonus and not later than 31st March 2010 for claiming the rebate. Wish that all concerned would report their activities to R10 in line with the above.

The next IEEE India Council Executive Committee would be meeting during R 10 Meeting at Cebu (Philippines) on 26th/27th February, 2010. I request those interested to voice their opinion through their Section representative attending the R 10 Meeting in order to take consensus decision for the growth of IEEE in India.

The pace of NDLP program has slowed down of late. I request all the members especially those remotely placed from cities to come forward and utilize the NDLP program of India Council in an encouraging manner. Please visit the IC's web site or write to the undersigned for any query on the same.

Yours Sincerely,

**K.RAMAKRISHNA**  
Secretary, IEEE India Council  
Email: [kramakrishna@ieee.org](mailto:kramakrishna@ieee.org)

## FORTHCOMING EVENTS

National Conference on Emerging Trends in RF and Signal Processing, March 25-27, 2010 organized by Department of Electronics And Communication Engineering, Federal Institute of Science And Technology(FISAT), Ernakulum, Kerala.

For details contact: Mr. Bejoy Varghese, Convener.

Phone: 09446029662, 0484 2616267.

Email: [shijinvaghese@yahoo.com](mailto:shijinvaghese@yahoo.com) or [fisatece@gmail.com](mailto:fisatece@gmail.com)

## IEEE CASEDCOM 2010

### One-Day Educational/SPAC Program

Theme: Recent Trends in Nano Electronics & Communication Systems (NECS'10)  
Organized Jointly by: Electron Devices Chapter, Circuits And Systems Chapter & Communications Chapter  
Date : 13 March 2010 (Saturday)  
Venue: Hyatt Regency Kolkata, JA-1, Sector III, Saltlake City

🕒 Registration Contact: P. Venkateswaran, Dept. ETCE, Jadavpur University  
Kolkata - 700 032. Tel.: +91 33 2414 6666 Extn.: 2786

## IEEE Standards Event

The IEEE-SA Corporate Advisory Group will present "Global Standards at IEEE" on 9 March 2010 in Bangalore, India at the Royal Ballroom, Leela Palace Hotel.

The seminar is a premier event for those in industry and government who are involved in the advancement of technology and interested in learning more about the global impact of IEEE standards. It will provide an overview of several technical areas undergoing standardization at IEEE, as well as illustrate how local entities can participate in and make use of IEEE's standards and best practices.

Leaders from industry will provide their insight through presentations and case studies on areas such as smart grid, software life cycle, IEEE 802®, and design automation.

In addition, the IEEE-SA Corporate Advisory Group will be leading a series of outreach sessions at various locations in Bangalore on 10-12 March. Further information and registration for those outreach sessions can be found at <http://standards.ieee.org/corpforum/seminars/india/outreach.html>



### **New fellow from India: Mr Shivkumar Kalyanaraman**

Shivkumar Kalyanaraman is a Senior Manager of the Next Gen Systems & Smarter Planet Solutions Department at IBM India Research Labs, Bangalore. He was previously a Manager of the Next Generation Telecom Research group and a Research Staff Member since 2008. He was a full Professor at the Department of Electrical, Computer and Systems Engineering at Rensselaer Polytechnic Institute in Troy, NY. He received a B.Tech degree in Computer Science from the Indian Institute of Technology, Madras, India in July 1993, followed by M.S. and Ph.D. degrees at the Ohio State University in 1994 and 1997 respectively. He also holds an Executive M.B.A. (EMBA) degree from Rensselaer Polytechnic Institute (2005). His current research in IBM is at the intersection of emerging wireless technologies and IBM middleware and systems technologies with applications to large-scale smarter planet problems (energy/grids, water/utilities, traffic, finance). He was selected by MIT's Technology Review Magazine in 1999 as one of the top 100 young innovators for the new millenium. He served as the TPC Co-chair of IEEE INFOCOM 2008, and will be the General co-chair of ACM SIGCOMM 2010 in New Delhi. He is on the editorial board of IEEE/ACM Transactions of Networking.

## **National Mission on Education**

The recently launched National Mission on Education through ICT (NMEICT) would be of interest to the members of IEEE, India.

The Ministry of Human Resources Development launched NMEICT at the beginning of this financial year with an outlay of Rs. 4,600 crore, to be spent in this plan period, ending on 31 March 2012. The objective of this mission is to improve the general levels of education in all colleges.

Approximately 60% of these funds are reserved for the establishment of connectivity in all 20,000 colleges and 416 universities. BSNL has been given a work order to establish 1 GBPS bandwidth for every university, to start with. The remaining 40% of the funds are reserved for content generation. The mission document is available at <http://www.sakshat.ac.in>. A complete list of the supported activities is available on pages 91-94 of this document. Some of the supported activities are virtual labs, robotics, low cost computing devices, open source software, haptic devices, e-content generation and bridging digital divide.

The mission aims to reach out to every section of the society. Project proposals are funded on the basis of the merit of the proposal only and not on the affiliation of the investigator. The funding is based on the deliverables, such as, number of courses to be developed, number of people to be trained, etc. Development of infrastructure is not directly supported by the mission. All the results of the project have to be released as open source.

In the top left corner of the URL, <http://www.sakshat.ac.in>, there is a link for NMEICT. In the top right hand corner of the resulting page, there is a link for submitting proposals. Project proposals are accepted only through this link.

Every project proposal has to be presented to a Standing Committee (SC) of NMEICT in Delhi. The SC typically meets on the first and third Saturday of every month. If reasonable, the SC recommends funding of a pilot project. Otherwise, the proposer is asked to revise the proposal and to re-submit. No proposal is rejected. There are no deadlines for the submission of proposals. Funding is available throughout the year.

**Prof. Kannan Moudgalya**

IIT Bombay

Member, SC, NMEICT

[kannan@iitb.ac.in](mailto:kannan@iitb.ac.in)

## Summary of the Report submitted by IEEE India Ad hoc Committee on 'Focus on India' Initiative

**IEEE President Dr. Lew Terman identified a “Focus on India” as a major IEEE initiative for 2008.**

The India Initiative Team headed by Prof. Rangachar Kasturi, 2008 President, IEEE Computer Society and consisting of Matthew Loeb, Staff Executive, Providence More, Manager for Strategic Planning, and Angela Burgess, Executive Director, IEEE Computer Society and R. Muralidharan, past chair, India Council, N.T. Nair, Chair, India Council, Chairs of several India sections, Some 40 officers of sections, branches and society chapters, Some 200 volunteers, members and friends of IEEE, Executives and managers from several companies from India participated in the meetings and deliberations. The ad hoc committee identified 'Focus on India' – goals as

***Better understanding of the needs of the technology community in India***

***Develop productive relationships with industry***

***Increase IEEE's overall presence and impact; more technical activities***

***Increase the participation of Indian technology professionals in IEEE activities***

***Increase membership at all levels; more GOLD members; more active sections, chapters, student branches***

The ad hoc committee visited five (5) cities : Bangalore, Mumbai, Delhi, Hyderabad, and Chennai and conducted a series of meetings with Corporations, Academic Institutions, Government Contacts, Volunteer Leaders, Members/Students/Friends of IEEE.

The preliminary findings of the ad hoc committee was that the commitment of IEEE volunteer leaders in India is significant and impressive, and their leadership will play a vital role in IEEE's long-term success in India. **The IEEE brand in India is very highly regarded and respected.** The IEEE value proposition is in question and IEEE needs to **think differently** about doing business in India - IEEE has to enable and provide better support for its dedicated volunteer leaders, IEEE must operate as a “model global association”, IEEE needs to learn how to more effectively service technical professionals in India for the long term.

The goal is to build on what volunteer leaders have already accomplished. The most significant challenge to volunteers are time constraints and resources to support local activities. IEEE needs to provide support materials, processes, and physical space that make it easier for IEEE members to volunteer.

**The opportunities for IEEE in India in diverse areas identified as -**

In **Market Segments** : IT/Software Development, Health/Telemedicine, Agriculture, Working with and for the disabled: in **Corporate Partnership** : Nurturing the professional pipeline (includes support for accreditation and continuing education), Humanitarian projects, Membership Development (Individual, Industry, Government, Academia): in **Professional Development** : Continuing Education, Training, Speakers/Lectures, Credentialing/Certification, Collaboration and Networking, Caliber of the Workforce; in **Accreditation** : Curriculum improvement and modeling, Consistency of learning environment, Caliber of faculty and graduates: **Standards; IEEE as a Convener** – Building Communities, More Conferences, Identify emerging issues, Identify experts, Convene the leaders/Workshops, Broadcast the event (Media), White papers, research, More PhD.s for innovation; in **Membership Development** : Experimental low cost membership models, Membership-like affinity beyond individuals (companies, academic institutions, government agencies), Increase value of networking to support career development.

The committee made recommendations on - ***Membership Development, Opportunities for increased technical activities, Collaboration with Indian standards bodies and companies, Humanitarian/Sustainability Programs.***

**The following are the proposed goals -**

Membership Development Goals

Assess opportunities for membership growth, including increasing the number of higher grade members and improving membership retention of student

Study the impact of facilitating local currency conversion on the recruitment of new members

Opportunities for Increased Technical Activities Goals

Support volunteers to organize high-impact technical meetings in India

Enroll several companies and educational institutions as CSDA participants

Assess interest in WCET and Biometrics certification programs

Collaboration Around Standards Goals

Encourage Indian companies to increase their participation in global standards development

Recruit companies as Standards Association Corporate Members

Humanitarian/Sustainability Programs Goal

Identify and begin development of one high-impact program in each of the two topics

**The scope of the IEEE India Ad Hoc Committee, 2009 is to -**

***Explore opportunities in India as a Model for IEEE's Global Growth: The committee will build upon the 2008 effort and develop a plan, with well defined targets, in each of the four areas.***

***While this effort's focus is on India, the strategic goal is to develop a plan that could be deployed in other parts of the world with similar characteristics.***

**The Committee is composed of**

R. Kasturi, cochair

R. Muralidharan, cochair

Vijay Bhargava

Balvinder Blah

Sourav Dutta

Janina Mazierska

N.R. Narayana Murthy

N.T. Nair

Anil Roy

Lew Terman

Staff Support: Matt Loeb, Pete Sobel, Trish Sgromolo

**The Membership Development Committee volunteers, Mr. N.T. Nair and Prof. Janina Mazierska, identified following key issues for membership development -**

- ◆ *Products, services and programs need to be more attractive to members in India.*
- ◆ *Need better member development and retention for members and students.*
- ◆ *Need to develop motivation for student members to bridge over to professional membership.*
- ◆ *Members outside the section headquarters do not often get the benefit of section activities. Develop a plan to spread the message of IEEE outside the sections.*
- ◆ *Measurement – need to have clear metrics and measurement.*

### **The action by the committee resulted in**

- ◆ *MCI management company in Mumbai to provide a Rupee to Dollar Conversion service targeted for non-renewing student members. This will go into operation 15 December 2009*
- ◆ *In September 2008 a campaign was launched to upgrade the status of 706 India Associate Members. As a result of this effort, as of 14 August, 2009 the number Associate Members has been reduced to 429*
- ◆ *MD Staff conducted in-country telemarketing effort for higher-grade member recovery in May/June '09 time frame. Results (76 members recovered).*

### **The Technical Activities Committee volunteers, Vijay Bhargava, Balvinder Blah and Sourav Dutta identified following issues -**

- ◆ We need an association management company to help with conference and meetings
- ◆ Need a comprehensive list of all convention/meeting facilities, their costs along with nearby hotels and their capacities/prices for large and midsize cities
- ◆ Conferences – Goal is to explore ways in which more IEEE conferences, symposiums, workshops and tutorials are held in India at a cost affordable to participants from India.

### **The action by the committee resulted -**

- ◆ *Tried the use of an association management firm to provide logistics support for a local conference*
- ◆ *Compiling a list of conference facilities, their costs and nearby hotels*

### **The Industry and Government Partnerships Issues Committee volunteers, R. Muralidharan and Sourav Dutta**

- ◆ Identify corporate and government interest in standards activities
- ◆ Need to partner with companies and government in India for professional development – continuing education
- ◆ Explore potential opportunities for corporate group memberships, humanitarian activities, distinguished lecturer programs, focused webinars, etc.

### **The action by the committee resulted in**

- ◆ *Meeting with India Minister of Science and Technology and garnered support for working with 37 national research labs on standards education*
- ◆ *Standards Association has scheduled Standards education meetings in India in March 2010*
- ◆ *Working on partnerships with Infosys, GTT Connect and Uniform ID on professional development opportunities in software and biometrics*

### **Lew Terman and Anil Roy looked at Humanitarian Activities and related Issues:**

- ◆ The need to inventory and bring together Indian engineering and technology professionals working in humanitarian activities
- ◆ Opportunity to engage IEEE members and students
- ◆ Highlights contributions of engineering and technology professionals in improving conditions in India
- ◆ Increase IEEE's visibility as a home for engineering and technology professionals in India

### The action proposed is to

- ◆ Organized a one day conference to showcase the technologies and products available to advance humanitarian causes on August 28 in Bangalore
- ◆ The major focus was on the challenges faced in India in health care, education, agriculture, rural connectivity, disaster management, and energy
- ◆ Conference featured presentations and a poster session
- ◆ Attended by 90 participants.
- ◆ Logistics support provided by an association management firm, AMI
- ◆ Identified approximately 40 humanitarian technology activities and added them to the IEEE Humanitarian Technology Network repository

### Finally the ad hoc committee Recommendations Going Forward are summarized as

- Grow the number of higher grade members and increase membership retention
- Extend the ability to pay in local currency to all members, not just student
- Build a framework for members and volunteers to participate in humanitarian technology activities
- Increase conferences and technical meetings in India
- Infosys to sponsor conferences near Bangalore
- Compilation of conference facilities in India to be available by year end
- Partnerships with Government and Industry
- Standards information meetings in March with national research labs and Indian companies
- Partner with industry on professional development and certification
- Collaborate with industry on developing college teachers to improve quality of engineering education
- Establish a local presence in India
- To be effective, we need feet on the ground
- Establish office(s) and hire staff

The committee believes that the above recommendations readily apply to several other emerging market countries and recommend follow up studies in 2010 to confirm such opportunities.

Note- This summary is prepared by editing the presentation made by the committee in August 2009 as an interim report and the final report submitted in October 2009

## Special Alert - Beware of Bogus IEEE Emails

The IEEE has learned that IEEE email alias users may have received messages that appear to be from a legitimate IEEE source asking for confirmation of authentication information or credentials.

These email messages are not from the IEEE and are suspected to be phishing scams, please delete them. If included in the messages, please do not open any attachments or click on any URLs.

These types of email messages typically attempt to fraudulently acquire sensitive member information by claiming that such information is required for account verification, to prevent account termination or some other course of action in connection with IEEE services.

As a policy, the IEEE will never ask its members to provide or confirm sensitive information via email.

## New Member's Alert

This February, IEEE is preparing to unveil its latest members-only benefit that will give members access to over 200 e-books on IEEE *Xplore*. The e-book collection will span a number of today's technologies across nineteen different content areas, and include:

- practical handbooks;
- introductory and advanced texts;
- reference works;
- professional books.

Valued at nearly US\$25,000 retail, this collection of e-books will be offered to members at no additional cost.

## What's New on IEEE.tv

- New—Scalable video navigation. Upgraded searching, sorting, and other utilities
- New—Transcripts of every video available for download - Member Benefit
- New—Social media and RSS integration. Post videos on Facebook and other sites, or embed in an e-mail
- New—A full-featured homepage with improved navigation

### *Editor's Message:*



**Hitesh Mehta**  
Editor

Dear IEEE members,

This time we have brought newsletter with increased size of 8 pages instead of 4 pages, mainly due to India Adhoc committee report, which chairman wanted to share with all members. Hope, you will find information in this edition useful. I thank all members who responded to me with their suggestions. I especially thank Dr Kannan, Professor of IIT-Bombay, who send me an article which will benefit many IEEE members. Prof S. Sadagopan of IIIT-Bangalore also agreed to write regularly for our newsletter, members may be aware that his articles on upcoming technologies are very popular and being published in Times of India regularly. I urge more senior members and fellow to contribute to newsletter. Best Wishes of Holi to all.