



# IEEE

## India Info



# IEEE India Council Newsletter

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## Message from Chairman



Dear Members,

My hearty New Year greetings to all of you. I am happy to have the opportunity to serve the IEEE community in India through IEEE India Council as its Chair. I congratulate all the newly elected members of India Council 2013.

As all of you are aware, IEEE is a knowledge Resource for the Circuit Branch Professionals in the world. It serves its members through IEEE Regions, Councils, Sections, Student Branches, Chapters, Societies and Affinity Groups. IEEE Regions are formed to plan and implement programs in consonance with the mission of IEEE, in support of the local organizational units in meeting the needs of the members of the Region. Councils are formed through an agreement of a Group of contiguous Sections in a Region and they exist at the pleasure of the Sections. A Section is the basic operating organizational unit of IEEE constituted by a minimum of 50 members other than students, established to serve by activities that meet the needs of the members and further the mission of IEEE. Volunteerism is the motto of IEEE and thus, the IEEE members serve as volunteers to meet the needs of the IEEE community within the frame works of IEEE Regulations to achieve the Goals and Objectives of IEEE. Having said this, I would like to emphasize that team spirit and unity are essential to fulfill the vision and mission of IEEE.

My dear Members, I have been a Member of IEEE since 1981 and serving IEEE community at different capacities as Member, Senior Member, Student Counselor, Executive Council Member, Vice-Chair and Chair of IEEE Madras Section for nearly 30 years, as a Volunteer. I assure all the members that having taken over as the Chair, IEEE India Council, I, with the Council Executive Members, will work towards the benefit of IEEE community in India. Though the Council exists for several years, still there are some issues need to be solved. The present council will try to address the unsolved issues in the best interest of the IEEE Indian Community.

I, on behalf of the IEEE India Council, would like to appreciate and put on record the excellent contributions made by the Past Execom of IC, as reported by the Past Secretary. I request them to continue to

extend their fullest cooperation to achieve the mission of IEEE India Council.

I would like to appeal to the Section Chairs to share their experiences and activities with other Sections through India Council. IEEE India Council exists for the pleasure of the Sections. Please feel free to express your views and suggestions to make India Council function more effectively.

Happy news is that IEEE India operations started functioning in India, having its Head Office in Bengaluru with Mr. Harish Mysore as its Director. This will help us in solving the financial transactions with IEEE Head Quarters. Currently the Academic world in India is facing skill gap problems of the Engineering graduates. When we met with Mr. Harish and his colleague Mr. Srikanth Chandraseakaran in the office IEEE Madras Section along with the Section Chair, Secretary-cum-Treasurer and Newsletter Editor, we discussed at length to provide a solution to this problem. We suggested that IEEE India operations can evolve skill based programs, involving Industries associated with the IEEE Chapters and Societies and offer through the IEEE Sections. In this connection I would like to appeal to the various IEEE Chapters and Sections to support this Initiative.

Our hearty congratulations to Dr. Gopi Bulusu, CEO and Chief Technologist and Professor of SoC and SoS Modeling, Sankhya Technologies Private Limited, Visakapatnam for his effort to form IEEE India Council Vehicular Technology Technology Society Chapter with himself as its Chair.

As the members are probably aware the IEEE R10 Annual Meet is scheduled to be held during 2nd and 3rd March 2013 in Chiang Mai, Thailand. I will be participating in the Meet. I request the Section Chairs to inform me about their participation in the R10 Meet. A sideline meeting of the India Council is scheduled to be held during 7.00 a.m. to 8.30 a.m. on 3rd March 2013. Mr. Lawrence Wong, MGA SD & EA (Strategic Development & Environmental Assessment) Chair of IEEE will be addressing us during the sideline meeting. All are requested to participate in this meeting.

I thank you all for your kind support to the IEEE activities in the past and looking forward for your continued support and inputs in future.

With kind regards,  
M. Ponnaivaikko  
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## Message from Editor



**H.R. Mohan**

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Blog: <http://infoforuse.blogspot.com>

Dear Friends,

IEEE India Info wishes its readers a HAPPY NEW YEAR 2013.

We present "IEEE India Info" the newsletter of the IEEE India Council in a different but conventional format which will undergo some more changes in the months to come. Our thanks to the past editor Mr. Hitesh Mehta.

IC Newsletter is the best medium to let others to know about you, your activities, and your experiences and so on. Hence we request our members, Student Branches, Society Chapters, and Sections to regularly send reports on various events being conducted by them. Broad guidelines to submit matter for publication in the newsletter is available at <http://goo.gl/dzSIJ>. Pl. send the matter by email to [ieeeindiainfo@gmail.com](mailto:ieeeindiainfo@gmail.com) on or before 7<sup>th</sup> of each month for inclusion in the same month newsletter.

Our Chairman, Dr. Ponnnaviakko in his message has highlighted about the skill development programmes. With the Govt's directives on corporate world spending its profit on CSR-Corporate Social Responsibility initiatives will make about 12,000 crores available in the year 2013 and societies like ours have a chance to join hands with the corporate world and get involved in taking up projects of relevance to the society which in turn reflects the IEEE's mission and vision.

In this issue of the newsletter, we have published the minutes of the India Council Execom meeting, IEEE India Council 2013, AGM minutes and the Secretary's report for the year 2012 along with the report on the flagship event INDICON-2012 held at Kochi.

As one of IC's objectives to know what is happening in our Sections, to start with in the "Section News" column, we have briefly published about four interesting events held under the Madras Section.

In addition to Prof. Sadagopan's regular monthly column on summary of IT related happenings, we have introduced a new column on "Information Resources" which we hope will be of interest to our members in providing certain developments and the links for additional inputs. We also propose to publish brief reviews on books of relevance to our members. To have more interaction with our members, a new feature "Tech Quiz" is also introduced. The publishers have come forward to present the books reviewed to the winners in the quiz.

It is noted that many of our members stop just with the membership with the parent organization IEEE whereas at a fraction of additional cost one can join a no. of technical societies relating to their area of work. Particularly, the students have greater opportunity through reduced membership rates. An additional amount of USD 13 entitles a student member to join the IEEE Computer Society with full membership benefits and the access rights to its Digital Library. This would help students of all branches of engineering since computers have become pervasive and the need to know about computing both for survival and job prospects is vital. Similarly, IEEE Communications Society offers its membership at an additional cost of USD 13 which is within the reach of the students. These societies allow the student branches to start the society branches with just 6 members and a staff coordinator. When we have a society chapter, one gets opportunity to network with the industry professionals and derive benefits such as industrial visits, final year projects and job opportunities. It is the initiatives and the follow-up by the student branch councilors will make the students to get benefited more. We hope in the near future, these things will happen.

## Report on INDICON 2012

The premier three-day conference of IEEE in India, INDICON 2012, concluded successfully at the Rajagiri School of Engineering and Technology, Kakkanad, Kochi, on 9 December 2012. The Conference brought together over 300 researchers, engineers, students, teaching faculty, practitioners and industry representatives from India and abroad. In addition, the Conference saw about 15 of the top international leaders from IEEE and Region 10 (Asia Pacific), as well as representatives of the IEEE Sections in different parts of India.

IEEE is the world's largest fraternity within the engineering community, with over 400,000 members in 150 countries around the world. IEEE is mandated with several important scientific and technical responsibilities including creating and maintaining technical standards; providing publishing services for scholarly papers; organizing technical conferences; providing technology for humanitarian and social purposes; and providing professional services for members.

Over 220 scholarly papers were presented at INDICON 2012 in five parallel tracks. All papers presented at the conference have been selected to be published in IEEE Xplore, which is the widely respected digital library of IEEE that is an international benchmark among scholarly publications.

### *The Conference had several side events, including:*

- Entrepreneurship summit by IEEE Graduates of the Last Decade (GOLD), where eminent experts discussed ways of promoting entrepreneurship in general, and startups in the Indian context in particular
- A Session on "Women in Engineering", where common issues being faced by women in the engineering profession as well as those planning to take up engineering as a profession were discussed
- The Symposium on "Engineering Education in India" had an eminent panel discussing the current crisis in the engineering education in Kerala. The recommendations of the panel will be submitted to the Government of Kerala
- The First All India IEEE Computer Society Student Congress, had student representation from 5 states in the country, where a number of technical and organizational aspects were discussed. The Student Congress also had a Session on "Aakash, the new Tablet PC for India" addressed by a top official of Datawind, the company that produces Aakash
- The session on Humanitarian Technologies discussed different strategies for IEEE to take up and promote the development of technologies that could be used for humanitarian purposes for populations around the world, particularly for Asia, Africa and Latin America

- Session by IEEE Standards Association: This session discussed developments in creation and maintenance of international standards
- Meetings of IEEE India Council: The India Council brought together Section representatives from different sections in India who were present in INDICON

***Five pre-conference tutorials on technical subjects were also held as a part of INDICON 2012. These were:***

- “Recent Trends in FACTS Devices in Distribution Systems” by Dr Bhim Singh, IIT, Delhi
- “Engineering Software for Complex Systems, A Systemic & Cybernetic approach” by Dr Hari Devarapalli and Mr MGPL Narayana, TCS, Hyderabad
- “Compressed Sensing and its Applications” by Dr K P Soman, Amrita University, Kollam
- “Reinforcement Learning Applications to solve multistage Decision making problem” by Dr T P Imthias Ahamed, King Saud University, Riyadh
- “Neuromorphics Logic Circuits : Towards Building A Brain Computer” by Dr Alex P James, IIITM, Trivandrum

The Conference also had a cultural programme for the benefit of visiting IEEE dignitaries and delegates from around the country, where the rich traditions of Kerala performing arts traditions such as Mohiniyattom and Kathakali, as well as martial arts such as Kalari were performed. The cultural programme was widely appreciated by the guests, and helped reinforce the Kerala 'Brand'.

#### ***Dignitaries and Participants***

INDICON 2012 was one of the most well-attended editions of the conference ever held. An impressive array of dignitaries from IEEE Headquarters as well as Region 10 (Asia-Pacific) took part, including:

1. Peter Staecker (IEEE President - 2013)
2. Matt Loeb (Executive Director, IEEE Foundation)
3. Mike Lightner (Past President, IEEE)
4. Burt Dicht (IEEE Educational Services)
5. John Walz (IEEE Computer Society President)
6. David Alan Grier (IEEE Computer Society President-elect)
7. Angela Burgess (IEEE Computer Society Executive Director)
8. R. Asthana (Region 10 Coordinator, Industrial Relations)
9. Deepak Mathur (Region 10 Coordinator, Humanitarian Activities)
10. Amarnath Raja (Chair, IEEE Ad-Hoc Committee on Humanitarian Technologies)

11. SV Sankaran, Vice President, Member & Geographical Activities Board, IEEE Computer Society
12. Harish Mysore (IEEE India Office, Bangalore)

#### ***Keynote and Plenary Talks***

The Keynote address was delivered by Dr. Gangan Prathap, Director, CSIR-NISCAIR, Delhi, during the Inaugural Session on 7th December 2012.

Four Plenary talks were delivered on 8th and 9th December by:

- Dr. David Alan Grier, IEEE Computer Society President-elect
- Shri N Murugesan, Director-General, Central Power Research Institute, Bangalore
- Mr. John Walz, President, IEEE Computer Society
- Mr. V Vivekanandan, Secretary, FishMARC

#### ***Panel Discussions***

Several panel discussions were held during the conference, including:

- “Entrepreneurship in Kerala”
- “Enhancing the quality of engineering education in Kerala”
- “Women in Engineering: Challenges and Prospects”
- “Local Technology Development for Humanitarian Applications”

Speakers at the panels included:

1. Prof. VK Damodaran, EMC/INGCORE
2. Mr. S Gopakumar, CDIT/ex-VSSC
3. Prof. Poullose Jacob, CUSAT
4. Mr. NT Nair, IEEE/EKL
5. Mr. C. Balagopal, PENPOL
6. MR Matt Loeb, IEEE
7. Dr. Sivanandan IAS (retd)
8. Ms Ramalatha Marimuthu, Chair, IEEE Women in Engineering
9. Mr. Satish Babu, IEEE/ICFOSS
10. Prof. Sudha Rajagopal
11. Dr. MV Rajesh
12. Mr. Ranjit Nair
13. Mr. Anil Kumar
14. Ms. Annie George, CEO, BEDROC, Nagapattinam
15. Mr. V.Vivekanandan, FishMARC
16. Mr. Amarnath Raja, Chair, IEEE HAHC
17. KJ Shanthi, SCT, Trivandrum
18. Mrs. I.S.Ambika, FACT



19. Prof. Shobha Cyrus, CUSAT
20. Ms. Mini Ulanat, CUSAT
21. Mr. Sarada Jayakrishnan, Penpol

The Conference gave the R & D, engineering and student communities of Kerala and south India an opportunity to showcase their work as well as to interact with top leaders of IEEE. The Conference also provided an opportunity to showcase Kerala's achievements in engineering to the international community.



*Dr. Peter Staecker, President IEEE, inaugurating Indicon 2012*

There has been uniformly positive feedback on INDICON 2012 from participants, including IEEE dignitaries from abroad and India, representatives of IEEE Sections in India, paper presenters and delegates. The Conference has significantly boosted the reputation of both IEEE Kerala Section and Kochi Subsection, and it is now likely that other IEEE Conferences will start flowing to Kerala. An added benefit to Kerala is the decision of IEEE to grant the status of "Friend of IEEE" to the Rajagiri School of Engineering and Technology, the venue of INDICON 2012, in appreciation of their excellent support to the event.



*India Council AGM*



*David Alan Grier delivering his Plenary Talk*



*The Women in Engineering panel discussion*



*Participants of the All India IEEE Computer Society Student Congress*



*A view from the Cultural Programme*

## IT in December 2012



**Prof. S. Sadagopan**  
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### General

- Union Government gets both the houses to pass FDI legislation in the first week of December 2012
- Gujarat Chief Minister Narendra Modi scores a hat-trick; becomes Chief Minister for third time in a row on December 20, 2012
- GMR loses the contract to operate Male Airport on December 6, 2012 after the arbitration in Singapore rules in favour of Maldives government
- After the voting on November 30, 2012, Palestine becomes an "observer state" in United Nations effective December 1, 2012
- Delhi girl, a victim of rape dies in Singapore hospital on December 29, 2012 causing considerable anger and sympathy across the Nation

### Products

- Apple iTunes Store starts India operations on December 4, 2012
- Apple launches iPad Mini for Rs 21,000 on December 7, 2012
- Yahoo launches revamped email on December 12, 2012
- Google's Gmail suffers outage in December 12, 2012
- Apple iPhone to be available in 100 countries by December 2012

### Markets

- India's economic growth slips to 5.3% in July-September 2012 quarter, the lowest in 4 years
- Jerry Rao founded MphasiS (part of IT services major EDS, a HP company) buys Digital Risk, US-based data analytics company on December 3, 2012 for \$200 million
- Sutherland decides to buy Apollo Health Street for Rs 1,000 Crores on December 12, 2012

### Indian IT companies

- Wipro wins \$200 million contract from Europe on December 9, 2012
- Infosys was awarded the number one spot globally (280 companies from 45 countries participated in the 14<sup>th</sup>

survey) for its corporate governance practices by IR Global Rankings (IRGR) on December 13, 2012

### MNC Companies in India

- On December 13, 2012 Hitachi had its first board meeting outside Japan and held it in India; they also fixed an India strategy till 2015-16, and plan to spend up to Rs 6,700 Crores in India and invest in factories and to hire people
- NDS (Cisco subsidiary) opens R & D office in Bangalore on December 4, 2012
- All State Insurance starts their software development centre in Bangalore on Dec 12, 2012
- Motorola decides to shut down Chennai plant in February 2013; stops selling phones in India from December 5, 2012
- Texas Instruments fires 150 people in India in December 2012

### Applications

- SMS is 20 years old on December 4, 2012

### People

- India-born Rangaswamy Srinivasan (Lasik Laser surgery pioneer) awarded the US National Medal of Technology for Innovation by President Obama on December 21, 2012
- Indian mathematician Srinivasa Ramunjan's 125<sup>th</sup> birthday was celebrated on December 22, 2012 across the globe
- Ratan Tata retires as Chairman of the Indian MNC Tata Sons (with \$100 billion annual revenue) on December 28, 2012; Mistry takes over charge on December 29, 2012
- Pandit Ravi Shankar passed away on December 12, 2012
- Bar code inventor Norman Joseph died on December 21, 2012

### Some interesting numbers

- Bangalore International Airport Ltd. (BIAL) clocks 50 million passengers on December 19, 2012
- Telecom subscriber base on October 31, 2012 stood at 935.18 million with 904.23 million mobile subscribers and 30.95 million wire-line subscribers (with net reduction of 2.39 million mobile subscribers and 0.14 million wire-line subscribers in October 2012) (TRAI Press Release No.231 dated December 12, 2012)
- India's Foreign Exchange on December 21, 2012 stood at \$296.5 billion (RBI)
- Indian Rupee stood at 55.78 against USD on December 31, 2012 (RBI)
- Sensex (India's stock market index) on December 21, 2012 stood at 19242 (RBI)



## News from Sections

### Madras Section

#### Seminar on “E-Governance for developing countries”



A one day seminar on “E-Governance for developing countries” was organized at Kumaraguru College of Technology, Coimbatore on 11<sup>th</sup> Dec 2012 by the Dept. of IT in collaboration with IEEE Computer Society, GOLD and Women in Engineering.

Mr. John Walz, President of Computer Society, IEEE USA was the chief guest and addressed the participants on “E-Government through Information & Communications Technology (ICT)” and provided a global perspective.

Mr. H.R. Mohan, Associate VP (Systems), The Hindu and Chair of IEEE Computer Society, Madras was the guest of honour and presented a session on “Indian E-Governance Initiatives” and highlighted the various schemes implemented by the Govt. of India.

In a panel discussion, moderated by Dr. S. Thangasamy, Dean (R&D), Kumaraguru College of Technology, the panelists Mr. John Walz and Mr. Mohan dealt with various issues and challenges associated with E-Governance such as: E-Governance meaning and applicability; Reasons for adopting E-Governance; Nature of Indian citizens response to E-Governance Initiative; E-Governance Plan and Implementation; India's preparations for E-Governance; IEEE E-Governance Initiative; National E-Governance Plan; and Applications and their impact on Indian Citizens.

A number of key messages and outcomes with recommendations devised as a result of the seminar like:

- E-Governance initiative of Indian Government should be made publically accessible.
- Actions should be taken while planning and implementing E-Governance systems with due consideration for poor and downtrodden people.

- Involvement of engineering/computer science based students is mandatory for popularizing the E-Governance initiative among the rural population of the country.
- The participants were urged to take up projects on E-Governance implementation.

Dr. Ramalatha Marimuthu, Chair, WIE and Prof. S. Karthik, Dept. of IT at KCT coordinated in organising this seminar.

#### International Conference on Communication, Computing and Information Technology



The Department of Computer Science, M.O.P.Vaishnav College for Women, Chennai in association with NASSCOM, IEEE, IEEE Computer Society and International Journal of Computer Applications organized an International Conference on Communication, Computing and Information Technology - ICCCMIT 2012 on 21<sup>st</sup> and 22<sup>nd</sup> December 2012.

Mr. Atul Anand, IAS, Managing Director, ELCOT inaugurated the conference and released the proceedings and spoke about the Government's initiatives in eGovernance and the support being extended to IT/ITES companies. Mr. N. R. Panicker, Founder, Executive Chairman, Chief Executive Officer and Managing Director, Accel Frontline Ltd., in his presidential address shared his experience as an entrepreneur and advised the participants to be innovative in the highly competitive global environment.

The conf. aimed at fostering communication among Academia, Research Scholars, Industry Professionals and Students working with a common interest to improve the research outcomes. Out of 205 papers received, 88 were selected after a careful review process. The selected papers will be published in the International Journal of Computer Applications (IJCA). The conf. attracted 400 participants from academia and industry from all over the country and abroad.

In the conf. 63 papers were presented in parallel sessions in the areas of Communication Networks, Information Technology, Data Mining, Biometrics, Artificial Intelligence Digital Electronics, Computing, Cloud Computing and Software Engineering. Senior academicians chaired the sessions and coordinated the presentations.

The conf. had nine invited talks by eminent academicians and industry professionals. The highlight of the conf. was a Panel Discussion on “Industry Institute Interface” moderated by Dr. K. Nirmala Prasad, Principal, MOP Vasihanv College with panelists representing the academia and industry analyzing the issues and presented solutions for better interface between industry and institutions.

The conf. concluded with a Valedictory session in which Dr. V. Jayaraman, Satish Dawan Professor & Senior Advisor(Space Applications), ISRO, Bangalore, Former Director, National Remote Sensing Centre, Hyderabad delivered the valedictory address explaining how the computing and communication which grew over the years have now merged and become pervasive and realities in the over dependence of technology. Mr. H. R. Mohan, Associate Vice President (Systems) at The Hindu and the Chairman of IEEE Computer Society and Interface to technical societies at ACM & CSI presided over the function and highlighted the importance of the technical associations in keeping abreast with the ever changing information and communication technologies and also briefed on the trends in ICT and how our country is progressing to become a super power in IT. Ms. Radha, HOD, MCA presented the conf. highlights and Ms. Sakthi Kumares, Associate Professor, Dept. of Computer Science proposed the vote of thanks.

### IEEE Pathfinder Workshop on Entrepreneurial Thinking



To cater the need of many new startups and to guide budding entrepreneurs, IEEE GOLD Affinity Group of Madras Section organized a Pathfinder workshop in association with the IEEE Madras Section Student Network and IEEE Region 10 GOLD Committee on 29<sup>th</sup> Dec 2012.

About 50 delegates from different Academic and Industry backgrounds participated in the workshop which was flagged off by Mr. T. S. Rangarajan, Chairman of IEEE Madras Section and Mr. H. R. Mohan, Vice-Chair of IEEE Madras Section. Mr. Srivatsava, Co-Founder and CEO of JadeMagnet and Mr. Manik Kinra, Co-founder and CMO of JadeMagnet were the resource persons to guide the delegates to take baby steps in the path of Entrepreneurship.

After a brief session in which the participants introduced themselves and shared their expectation out of the workshop, Manik and Sitash took the delegates to a different level of thinking by elucidating the concepts of Entrepreneurship in an interactive manner. They gave an insight on how to identify the megatrends at a given point of time and use it to the benefit of

the startup. They also explained on how to solve problems and how to take examples from the experiences of global organizations running successful business model in the respective domains.

The post-lunch session featured on building an effective business plans and the revenue stream. Manik and Sitash then threw light on the processes that needs to be followed to build a long running start-up. Incorporation, Sales/Marketing, Human Resources, Financial Management and Governance were dealt in this session. Manik emphasized the importance of effective documentation and on-time payment of Government taxes.

The one-day workshop came to a formal ending with the note of gratification by Nivas Ravichandran, Lead of Chennai Hub IEEE Madras Section Student Network. The programme had wonderful feedback from all the participants and we hope to see a lot of young entrepreneurs and successful startups in the near future. Both Manik and Sitash were quite engaging and answered the questions of the participants. The Slide Deck of the presentation can be downloaded <http://goo.gl/vECYd>

In continuation to this event, the GOLD Affinity Group of IEEE Madras Section is planning to start a Special Interest Group on Entrepreneurship which would effectively focus on continued support to anyone who would want to venture into a start-up.

### FDP on “A Research Perspective Issues on Human Computer Interaction (HCI) = Ubiquitous + Pervasive + Haptic Technologies”



The IEEE Madras Section in association with IEEE SB, National Engineering College (NEC), Kovilpatti organized a Faculty Development Programme (FDP) on the topic “A Research Perspective Issues on Human Computer Interaction (HCI) = Ubiquitous + Pervasive + Haptic Technologies.” on 30<sup>th</sup> Nov and 1<sup>st</sup> Dec 2012. This was the 23<sup>rd</sup> FDP in a series of programs aimed at improving the quality of teaching in Engineering Colleges in Tamilnadu.

The resource persons for the program were Dr. S. Radha Krishnan, Senior Professor/CSE, Kalasalingam University; Dr. V. Vijayarangan, Dean/TCP, NEC; Dr. V. Kavitha, Director/CSE, University College of Engineering, Nagercoil; Dr. M. K. Kavitha Devi, Assistant Professor/IT, Thiyagarajar College of Engineering, Madurai; Dr. V. Vaidehi, Professor/Electronics, MIT Campus, Anna University,



Chennai; Dr. V. Gomathi, Associate Professor(SG)/CSE, NEC and Mr. B. Senthil Kumar, Usability Manager, CSC India Pvt. The topics in the FDP included: Evaluation of Pervasive Computing for real world applications; An Overview, HCI-Needs evaluation and future; Recent Trends and Research Issues in Cloud Computing; An Overview, Haptic Devices; Application of WSN for Pervasive and Ubiquitous Computing; Haptic Technologies and Application of Haptic Technologies.

This FDP attended by 39 faculty members of colleges and universities from all over Tamilnadu received an excellent feedback from all the participants. The coordinators of this FDP were Dr. N. Kumarappan, Professor, Annamalai University and IEEE Madras Section Educational Activity Chair, Dr. B. Paramasivan, Professor and Head/CSE, NEC, and Dr. M. Wiljuice Iruthayarajan, Associate Professor and Head/EEE, NEC.

#### **Workshop on Stress Management through Meditation and Music**



A unique workshop programme on “Stress Management through Meditation and Music” to realise the power of the mind for a healthy life & role of music in controlling the mind comprising of a lecture on “Body, Mind, Stress, Disease and Music Therapy based on Chakras” delivered by Dr. P. S. Lalitha, Reiki Grandmaster & Acupuncturist and Founder- Art of Healing and a guided meditation for self-healing and for relaxing the mind & body through famous Tamil compositions rendered by Padma Seshadri Sisters Randhini-Roshini. Padma Bhushan, Kalaimamani Smt. P. Susheela, Playback singer was the Chief Guest at the event held on 17<sup>th</sup> Nov 2012.

#### **New Student Branches**

The following new student branches in Madras Section were approved by the IEEE HQ

- Saveetha School of Engineering, Chennai. Computer Society
- Thiagarajar College of Engineering, Madurai. Antennas and Propagation Society
- Thiagarajar College of Engineering, Madurai. Microwave Theory and Techniques Society

- MOP Vaishnav College for Women, Chennai. Computer Society
- VIT University, Chennai - Power Electronics Society

#### **Awards & Honours**

- Mr. D. Sampathkumar Veeraraghavan, Past Chairman of IEEE Madras Section GOLD Affinity Group, received the Young Alumni Distinguished Award of the Tufts University.
- Mr. H.R. Mohan, Chairman of IEEE Computer Society Madras Chapter has been named as a member of the Society's Golden Core and included in that elite group for his dedicated leadership and service which have made the IEEE CS the world's preeminent association of computing professionals.

#### **Madras Section Office Bearers for the year 2013**

- Chairman : Mr. T.S. Rangarajan, TCS
- Vice Chairman (I) : Mr. H.R. Mohan, The Hindu
- Vice Chairman (A): Dr. S. Arumugam  
Nandha College of Tech.
- Secretary : Major V.V. Chandrasekaran (Retd)
- Treasurer : Dr. N. Kumarappan  
Annamalai Univ.,

Execom members details at <http://goo.gl/u9xNd>

### **NCVESCOM 2013**

#### **6th National Conference on VLSI, Embedded Systems, Signal Processing & Communication Technologies**

3<sup>rd</sup> April 2013 at Chennai

*Organized by*  
Department of ECE  
Aarupadai Veedu Institute of Technology

*Supported by*  
IEEE COMSOC, IEEE CS, IETE  
CSI Div (IV), Broadcast Engineering Society  
Last date for paper submission: 23<sup>rd</sup> Feb 2013

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## Information Resources



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**2013 Tech to Watch:** IEEE Spectrum previews the coming year's technology projects whose launches have been announced or rumored but not fleshed out. In this special report, IEEE Spectrum tells you about 14 such nascent endeavors. Among them are a Brazilian company attempting to transform crops into fuel without raising food prices by turning sugarcane waste into cellulosic ethanol; Watson, IBM's smarty-pants AI program and "Jeopardy!" champion, going off to medical school; and Virgin Galactic aiming to put the average person with US \$200 000 to spare on a flight into the cosmos. Read the annual technology survey on the coming 12 months at <http://goo.gl/mlYSo>

**Systems Engineering for Dummies:** This IBM limited edition ebook, explains what systems engineering is and how it can help you simplify the development of smart, connected products. If you're looking for ways to expedite time-to-market, ensure business agility, and deliver high-quality smart products while cutting costs, this ebook is for you. Download it from <http://goo.gl/rSMpw>

**Embedded Software Development: Implementing an Agile Methodology to Improve Time and Quality:** The growing importance of software in smarter products is driving investment in improved development processes. This research-based paper at <http://goo.gl/8rQQO> reports on how companies are using agile methods to speed delivery and improve quality.

**IEEE Spectrum Newsletters:** You can subscribe to the following newsletters at <http://goo.gl/XCbGe> and stay current, competitive and informed.

- Tech-Alert Newsletter: Receive ground-breaking technology and science news from IEEE Spectrum Online every Thursday.
- ComputerWise News: Biweekly newsletter with news and analysis on Software, Systems, IT.
- Robotics News: Biweekly newsletter on latest advances and news in robotics, automation, control systems, interviews with leading roboticists, and more.
- EnergyWise Newsletter: Biweekly newsletter on latest news related to Power & Energy industry, Green Technology, and Conservation. Also includes opinions from industry experts.

**The Last Days of Cash:** This special report on the future of money explains on how E-Money technology is plugging us into the Digital Economy. Read the articles in this special report at <http://goo.gl/kBje9>

**Build Your Own Google Glass:** A wearable computer that displays information and records video. Last April, Google announced Project Glass. Its goal is to build a wearable computer that records your perspective of the world and unobtrusively delivers information to you through a head-up display. But if Google is able to start developing such a device, it means that the components are now available and anyone should be able to follow suit. So, the author of this post, Rod Furlan decided to do just that, even though he knew the final product wouldn't be as sleek as Google's and the software wouldn't be as polished. Read the post at <http://goo.gl/Pzddk>

**Stanford Names Seven Heroes of Engineering:** Since 2010, Stanford University has annually selected engineering heroes, engineers with some Stanford affiliation who have "advanced the course of human, social, and economic progress through engineering.". This year's (2012) class of engineering heroes numbers seven. Read about them at <http://goo.gl/ZUmhf>

**Wearable Computers the Size of Buttons to Monitor Health:** In just the latest of many recent developments, the press note from University of Texas at Dallas, states that patients who require continuous observation of their medical condition for example, to see if they're taking their medications on time could benefit substantially from button-sized wireless computers to monitor a person's health. An assistant professor of electrical engineering Roozbeh Jafari, is creating just such devices. Read the post at <http://goo.gl/VeIOJ>

**Your Car as Stress Monitor:** There has been an increasing push to warn drivers especially young drivers about the dangers of driving while fatigued. AAAA Foundation survey published earlier this month found that "one in seven licensed drivers ages 16-24 admitted to having nodded off at least once while driving in the past year as compared to one in ten of all licensed drivers who confessed to falling asleep during the same period." Read the full post at <http://goo.gl/rFkTK>

**When a robot signs a bill: A brief history of the autopen:** While serving as the 3rd president of the United States, Thomas Jefferson discovered a piece of technology that he could simply not live without. And no, it wasn't this thoroughly gonzo precursor to the home gym. It was the polygraph: a machine that made direct copies of handwritten letters. The user would write a version on one side of the machine, and by mechanical action, the words would be instantly facsimiled on the other. Being the technophile that he was, Thomas Jefferson purchased two: one for the White House, one for Monticello. Read the full story at <http://goo.gl/Y7tS8>

**Video: Food as Medicine:** Christa Orecchio is a clinical and holistic nutritionist and founder of The Whole Journey, a private nutrition practice and informational website established to help people live healthier, happier, and more energetic lives through whole food nutrition, quality supplementation, and healthy lifestyle guidance. Christa's goal is to holistically heal chronic health concerns from the root cause, in lieu of addressing individual symptoms. She also focuses on elements that nourish other than food, including honest and open relationships, a meaningful spiritual practice, a career or creative outlet that inspires, and physical activity that is enjoyable. Watch this 19 min TEDx Talk Video at <http://goo.gl/9aMjj>

**Video: Renewable Energy: Is the Future in Nuclear?:** Over the short term (the next two centuries), climate change is the largest threat to a salubrious planet that we can leave to our grandchildren. While it seems still an open question whether if we humans do manage to address climate change at all, Dr. Aubrecht will present that while undeniably controversial, nuclear energy may be the only choice for a fully renewable energy system for our future. Watch this 21 min TEDX video at <http://goo.gl/ci35h>

**Inspiring interview with Dr. Vinton G Cerf, Father of Internet:** On 1st Jan 2013, the world celebrated the 30th anniversary of modern Internet. Dr. Vinton G Cerf and his team dedicated the TCP/IP protocol to the world, bringing a new era of Internet and world wide web, which revolutionised the communication of the world. On 23rd Jan 2013, PodUniversal recorded an exclusive interview with Dr. Vinton G Cerf, who is considered as 'Father of Internet' on various aspects. Listen to his 10 min. inspiring interview at <http://youtu.be/V6VOAAQEyE0>

### **The 48 Laws of Power**

Authors: Robert Greene & Joost Elffers. Publisher: Viking Penguin. Pages: 452.

The 48 Laws of Power are a distillation of 3,000 years of the history of power, drawing on the lives of strategists and historical figures. The book is intended to show people how to gain power, preserve it, and defend themselves against power manipulators. Each law is its own chapter, complete with a "transgression of the law," "observation of the law," and a "reversal." Those laws are:

1. Never outshine the master.
2. Never put too much trust in friends; learn how to use enemies.
3. Conceal your intentions.
4. Always say less than necessary.
5. So Much Depends on Reputation Guard it with your Life.
6. Court attention at all costs.
7. Get others to do the work for you, but always take the credit.
8. Make other people come to you; use bait if necessary.
9. Win through your actions, never through argument.
10. Infection: avoid the unhappy and unlucky.
11. Learn to keep people dependent on you.
12. Use selective honesty and generosity to disarm your victim.
13. When asking for help, appeal to people's self-interests, never to their mercy or gratitude.
14. Pose as a friend, work as a spy.
15. Crush your enemy totally.
16. Use absence to increase respect and honor.
17. Keep others in suspended terror: cultivate an air of unpredictability.
18. Do not build fortresses to protect yourself. Isolation is dangerous.

19. Know who you're dealing with; do not offend the wrong person.
20. Do not commit to anyone.
21. Play a sucker to catch a sucker: play dumber than your mark.
22. Use the surrender tactic: transform weakness into power.
23. Concentrate your forces.
24. Play the perfect courtier.
25. Re-create yourself.
26. Keep your hands clean.
27. Play on people's need to believe to create a cultlike following.
28. Enter action with boldness.
29. Plan all the way to the end.
30. Make your accomplishments seem effortless.
31. Control the options: get others to play with the cards you deal.
32. Play to people's fantasies.
33. Discover each man's thumbscrew.
34. Be royal in your fashion: act like a king to be treated like one.
35. Master the art of timing.
36. Disdain things you cannot have: Ignoring them is the best revenge.
37. Create compelling spectacles.
38. Think as you like but behave like others.
39. Stir up waters to catch fish.
40. Despise the free lunch.
41. Avoid stepping into a great man's shoes.
42. Strike the shepherd and the sheep will scatter.
43. Work on the hearts and minds of others.
44. Disarm and infuriate with the mirror effect.
45. Preach the need for change, but never reform too much at once.
46. Never appear perfect.
47. Do not go past the mark you aimed for; in victory, learn when to stop.
48. Assume formlessness.

The laws are explained in detail at <http://goo.gl/faVZ1>

### **The Ten Forces That Flattened the World**

1. Collapse of Berlin Wall--11/89: The event not only symbolized the end of the Cold war, it allowed people from other side of the wall to join the economic mainstream. (11/09/1989)
2. Netscape: Netscape and the Web broadened the audience for the Internet from its roots as a communications medium used primarily by 'early adopters and geeks' to something that made the Internet accessible to everyone from five-year-olds to eighty-five-year olds. (8/9/1995)



3. **Work Flow Software:** The ability of machines to talk to other machines with no humans involved. Friedman believes these first three forces have become a “crude foundation of a whole new global platform for collaboration.”
4. **Uploading:** Communities uploading and collaborating on online projects. Examples include open source software, blogs, and Wikipedia. Friedman considers the phenomenon “the most disruptive force of all.”
5. **Outsourcing:** Friedman argues that outsourcing has allowed companies to split service and manufacturing activities into components, with each component performed in most efficient, cost-effective way.
6. **Offshoring:** Manufacturing's version of outsourcing.
7. **Supply-Chaining:** Friedman compares the modern retail supply chain to a river, and points to Wal-Mart as the best example of a company using technology to streamline item sales, distribution, and shipping.
8. **Insourcing:** Friedman uses UPS as a prime example for insourcing, in which the company's employees perform services--beyond shipping--for another company. For example, UPS itself repairs Toshiba computers on behalf of Toshiba. The work is done at the UPS hub, by UPS employees.
9. **In-forming:** Google and other search engines are the prime example. “Never before in the history of the planet have so many people--on their own--had the ability to find so much information about so many things and about so many other people”, writes Friedman.
10. **"The Steroids":** Personal digital devices like mobile phones, iPods, personal digital assistants, instant messaging, and voice over Internet Protocol (VoIP).

*Adopted from the book “The World Is Flat: A Brief History of the Twenty-first Century” by Thomas L. Friedman.*

*Publisher: Farrar, Straus and Giroux. Pages: 488*

## Books

### Electromagnetic Field Theory and Transmission Lines

Author: Gottapu Sasibhushana Rao. Published by: Wiley India, Pages: 436. Price Rs. 349/=

This is a comprehensive textbook designed to cover almost all the topics of electromagnetic field theory, transmission lines and waveguides. The theoretical basics are analyzed and physical interpretations are presented in an appropriate manner. The concepts are explained with the help of illustrations, diagrams and appropriate examples that follow the topic. Key equations and formulae have been highlighted. In addition, each chapter includes summary, multiple-choice questions and review questions that greatly assist in revision of the chapter. A useful Glossary is also presented at the end of the book.

The subject is covered in 10 chapters namely: Review of Coordinate Systems and Vector Analysis; Electrostatics; Magnetostatics; Maxwell's Equations; Electromagnetic Wave Characteristics I; Electromagnetic Wave Characteristics II;

Guided Waves; Transmission Lines I; Transmission Lines II; Waveguides.

This book serves as both text and reference book for students and teachers of UG, PG courses in Electronics & Communication, Electronics & Telecommunication, Electrical & Electronics Engineering, Computer Science & Engineering, and Information Technology.

### Paths of Innovators (Volume I)

Author: Dr. R Parthasarathy. Published by: Universities Press. Pages: 456. Price: Rs. 450/=

This is the first volume of a set of two volumes. It comprises a collection of about 125 scientists' lives, their struggles, their achievements and their laurels. The scientists have been grouped under five disciplines Engineering (32), Physics (32), Mathematics (27), Chemistry (20) and Life Sciences (12).

The reader meets people from various backgrounds, those with insufficient schooling, those with little money, those born into aristocracy, those with science in their blood, those battling with grave illnesses, those who moved from one discipline to another (as different as possible from each other); ultimately culminating in path-breaking scientific discoveries. The aim of these brief biographical sketches is to inspire a wider audience to take up the noble pursuit of pure sciences.

This is a compilation of the weekly feature appeared in the newspaper *The Hindu*. An ideal reference source to be added in libraries of engineering & science institutions. Students and professionals will find this publication useful in motivating them in academic and career aspirations.

## TechQuiz 2013-01

**(Two Prizes to win. Books reviewed in this issue will be presented to the winners)**

1. Boeing's new 787 Dreamliners were recently grounded due to the problem in ----- used in an auxiliary power system.
2. Name the country which has the highest percentage (about 78%) of its power being produced through nuclear power plants.
3. Dr. Vint Cerf is the co-developer of the protocol ----- which paved the way for the modern Internet in early 1980s.
4. On 1 January 1963, The AIEE and the ----- merged to form the Institute of Electrical and Electronics Engineers, or IEEE.
5. Who had coined the term 'robot'.

Email your answers by **20<sup>th</sup> Feb 2013** to [ieee.techquiz@gmail.com](mailto:ieee.techquiz@gmail.com) with subject **“techquiz-2013-01”**. Please provide your name, designation, company/institution, full postal address (to send the prize) and the contact phone nos. after the answers.

There are TWO prizes to win. These prizes will be in the form of books which are briefly reviewed in this edition of the newsletter. They are being offered by **Wiley India Pvt. Ltd** ([www.wileyindia.com](http://www.wileyindia.com)) and **Universities Press** ([www.universitiespress.com](http://www.universitiespress.com)). Answers along with the winners' info will be published in the next issue.

## Minutes of IEEE India Council Executive Committee Meeting Held at Kochi on 8<sup>th</sup> Dec 2012

The Executive Committee Meeting of IEEE India Council was held at 2.00 p.m. on December 8, 2012 at Kochi, in conjunction with IEEE IC Annual Conference INDICON. The following members were present in the meeting.

1. Dr. R. G. Gupta, Chair
2. Dr. V.R. Singh, Secretary-cum-Treasurer
3. Mr. M.G.P.L. Narayana, Hyderabad
4. Dr. Rajesh Ingle, Pune
5. Mr. Anthony Lobo, Mumbai
6. Mr. Raju Hira, Bombay
7. Mr. R.K. Asthana, Delhi
8. Mr. Ravikiran A, Bangalore
9. Mr. Ashok Jagatia, Bombay
10. Mr. Harish Mysore, Bangalore
11. Ms. Perna Gaur, Delhi
12. Mr. Satish Babu, Kerala
13. Mr. Deepak Mathur, Gujarat
14. Dr. Atul Negi, Hyderabad
15. Dr. Sivaji Chakarvarti, Kolkata
16. Prof. Bhim Singh, Delhi

1 The Chairman welcomed the members and briefed about the following developments:

- i) INDICON, the annual conference of IEEE India Council was successfully organized and held by IEEE Kochi Subsection and Kerala Section. The conference has been a grand success. Three Cheers to Mr. Satish Babu & his team, Kerala Section and Kochi Subsection. One new feature of this conference was the complimentary registration and accommodation to the IEEE R10 section Chairs, R10 Executive Committee.
- ii) Highlighted the recent activities of IEEE India Council which in a short span of time, a number of conferences and seminars have been organized at different places in the country. The general criteria of sponsoring these conferences were:
  - 50% and 50% share basis. In the case of loss, IEEE India Council share will be 0% and all of the loss will be borne by the organizing identity.
  - The students of organizing identity will be allowed to attend the lectures and tutorials.

iii) The Chairs/Officials of different Chapters of India Council and activities with no performance and participation in the recent past were replaced with active IEEE volunteers. These have shown remarkable improvement in the activities.

iv) The Bylaws of IEEE India Council were rewritten, got approved by the Executive Committee and AGM and finally by R10 and MGA.

v) The Slate for IEEE India Council for the year 2013 is under preparation and the Chair of nomination Committee was requested to expedite the same.

2 Since no comments have been received, the Minutes of the last EC meeting held at Kolkata (with R10 Meet) and the AGM held in conjunction with INDICON-2011 at Hyderabad were thus taken as approved.

3 The reporting by different Committee conveners is as follows:

i) All India Students Congress was organized successfully in Bangalore during 28-30, Sep 2012. Detailed report has been published in the Newsletter.

ii) There were three Distinguished Lectures this year.

4 Feedback from different chapter chairs was presented. Chairman mentioned that there was 'No response' from some IC Chapter Chairs and suggested to change the nonperformance Chairs. Accordingly it was suggested and approved to nominate Mr. Deepak Garg from Thapar University to take charge of IC Computer and Educational Chapters under IC. Prof. Perna Gaur was asked to work as Vice Chair of students activities.

5 The Section chairs presented the progress of excellent activities (see secretary's report of AGM).

6 M.V. Chauhan Contest has been successfully been conducted and prizes presented during INDICON-2012 to three students.

7 This year, five members have been elevated to Fellows. Several awards/ prizes and academic honors have been received by our members. Details have been reported in the Newsletter.

8 Accounts submitted to IEEE H/Q in L50 form were mentioned.



- 9 The highlights of INDICON-2012 were presented by Mr. Satish Babu. It has been an excellent event and the organizers deserve special appreciation. Execom conveyed its appreciation to Mr. Satish Babu and congratulated him and his team for the excellent performance.
- 10 Mr. Raju Hira presented the details of the preparations relating to INDICON-2013 to be held at IIT Bombay, by circulating the conference brochure to the members.
- 11 INDICON-2014 will be organized by Pune Section and INDICON-2015 will be held in Delhi (Tentative).
- 12 Three new chapters have been formed (see the annual report for details).
- 13 Eight monthly EC tele-conf meetings have been organized successfully. EC appreciated the efforts made by Mr. Anthony Lobo to organize the tele-conf meetings. Two person to person EC meetings have also been organized during the year.
- 14 The Chairs proposed to amend Bylaws for including all Execom members from India in R10 and IEEE MGA Committees as Ex-Officio members in India Council Executive Committee. This has been agreed and the Chair was requested to follow the procedure to amend the Bylaws accordingly.
- 15 Mr. Harish Mysore from IEEE India Bangalore office made presentation and discussed the issues related to releasing of funds/rebate from IEEE HQ.
- The meeting ended with a vote of thanks to the Chair.
- V.R. Singh, Secretary-cum-Treasurer,  
IEEE India Council*

## IEEE India Council 2013

Sl. No.	Post	Section	Name	Membership No.	Email
1.	Chair	Chennai	Dr. M. Ponnaivaiko	SM 04472254	ponnav@gmail.com
2	Chair Elect	Gujarat	Mr. Deepak Mathur	SM 40324184	deepakmathur@ieee.org
3	Secretary / Treasurer	Chennai	Major Chandrasekharan V.V. (Retd)	M 41302471	majorchander@yahoo.com
4	Immediate Past Chair	Delhi	Dr. Ram Gopal Gupta	SM 40110642	guptarg@nic.in
5	Vice Chair - Student Activities	Mumbai	Dr. Preeti Bajaj	SM 40286317	preetib123@yahoo.com
6	Vice Chair - Professional Activities	Bangalore	Dr. Surendra Pal	F 40147408	pal_surendra@hotmail.com
7	Vice Chair - Technical Activities	Delhi	Dr. Ved Ram Singh	F 07649932	vr Singh@ieee.org
8	Vice Chair - Educational Activities	Gujarat	Mr. R. B. Jadeja	M 90525637	rbjadeja2001@gmail.com
9	Vice Chair - Membership Development	Kolkata	Mr. Sanjay Kar Chowdhury	SM 40298723	sanjay.chowdhury@rp-sg.in
10	Vice Chair - Humanitarian Technology	Gujarat	Dr. Anil Roy	SM 41623732	anilkroy@ieee.org
11	Vice Chair - Industry Relations	Pune	Dr. Mandar Khurjekar	SM 41356203	mandarjk@gmail.com
12	Newsletter Editor	Chennai	Mr. H. R. Mohan	SM 4142691	hrmohan.ieee@gmail.com
13	Member at Large	Kerala	Mr. R. Srinivasan	M 90511907	srinitvm@ieee.org
14	Member at large	Pune	Dr. Rajesh Ingle	SM 40261758	ingle@ieee.org
15	Ombudsman	Mumbai	Mr. Anthony Lobo	SM 40331593	anthonylobo@ieee.org
16	Web Master	Mumbai	Mr. Quresh Bakir	SM 6667976	qbakir@ieee.org

## Minutes of the IEEE India Council AGM Held on 8<sup>th</sup> Dec, 2012 at Kochi

The Annual General Body Meeting of IEEE India Council was held on 8<sup>th</sup> December, 2012 at 3.00 p.m. during INDICON-2012 at Kochi. Following are brief points of discussions and approval:

1. The Chairman welcomed the members and briefed about the following developments:
  - INDICON, the annual conference of IEEE India Council was successfully organized and held by IEEE Kochi Subsection of Kerala Section. The conference has been a grand success. Three Cheers to Mr. Satish Babu & his team, Kerala Section and Kerala Subsection. One new feature of this conference was the complimentary registration and accommodation to the IEEE R10 Section Chairs and R10 Executive Committee.
  - Highlighted the recent activities of IEEE India Council which in a short span of time, a number of conferences and seminars have been organized at different places in the country. The general criteria of sponsoring these conferences has been:
    - 50% and 50% share basis. In the case of loss, IEEE India Council share will be 0% and all of the loss will be borne by the organizing identity.
    - The students of organizing identity will be allowed to attend the lectures and tutorials.
  - The Chairs/Officials of different Chapters of India Council and activities with no performance and participation in the recent past were replaced with active IEEE volunteers. These have shown remarkable improvement in the activities.
2. Since no comments have been received, the minutes of the AGM held in conjunction with INDICIN-2011 at Hyderabad were approved. The minutes were thus taken as approved.
3. The Bylaws of IEEE India Council were rewritten, got approved by the Exec. Committee and AGM and finally by R10 and MGA.
4. The Slate for IEEE India Council for the year 2013 is under preparation and the Chair of nomination Committee was requested to expedite the same.
5. The Secretary read the report on the activities organized during 2012. The report was then approved unanimously. (A copy of the report is published elsewhere in this newsletter).
6. Accounts for the year (1<sup>st</sup> Jan 2012 to 8<sup>th</sup> Dec 2012) were presented and approved.
7. All India Students Congress was organized successfully in Bangalore during 28-30, Sep 2012. Detailed report has been published in the newsletter.
8. Feedback from different chapter chairs was presented. Chairman mentioned that there was 'No response' from some IC Chapter Chairs and suggested to change the non-performance Chairs. Accordingly it was suggested and approved to nominate Mr. Deepak Garg from Thapar University to take charge of IC Computer and Educational Chapters under IC. Prof. Purna Gaur will be Vice Chair for Student Activities.
9. M.V. Chauhan Contest was organized successfully and prizes were presented during INDICON-2012 at Kochi.
10. This year, five members have been elevated to Fellows. Several awards/prizes and academic honors have been received by our members. Details have been reported in the newsletter.
11. INDICON-2012 has been a successful event. It was inaugurated by the President-elect of IEEE. Dr. R.G. Gupta, Chair, IC delivered the presidential address. AGM conveyed heartiest congratulations to the organizers, and in particular to Mr. Satish Babu, General Chair.
12. It was approved that INDICON-2013 will be organized by Bombay section and INDICON-2014 by Pune Section. Proposal from Delhi Section was considered for INDICON-2015.
13. MoUs with IE (I) and IETE have been materialized.
14. AGM was informed about tele-conference meetings of Executive Committee. Eight such monthly EC tele-conf meetings have been organized successfully. AGM appreciated the efforts made by Mr. Anthony Lobo to organize these meetings. Two in person EC meetings have also been organized during the year.
15. Three new chapters have been formed (see the annual report for details).
16. The Chairs proposed to amend Bylaws for including all Executive Committee members from India in R10 and IEEE MGA Committees as Ex-Officio members in India Council Executive Committee. This has been agreed by AGM and the Chair was requested to follow the procedure to amend the Bylaws accordingly.
17. President-elect Dr. Peter Staecker and General Manager Mr. Matt Loeb were the special guests during AGM. The Chair welcomed the honorable guests and requested Dr. Peter to address the AGM. Dr. Peter, in his address briefed AGM about the priorities of IEEE and the growing role of Indian IEEE Volunteers.
18. The meeting ended with the thanks to the Chair.

*Dr. V.R. Singh, Secretary-cum-Treasurer, IEEE India Council*



# IEEE India Council -- Secretary's Report - 2012

## 1. The IC Executive Committee 2012

The India Council Executive Committee 2012 comprises of:

Office	Name	Section
Chair	Dr. Ram Gopal Gupta	Delhi
Executive Vice Chair	Dr. M. Ponnaivaikko	Madras
Secretary/Treasurer	Dr. Ved Ram Singh	Delhi
Immediate Past Chair	Prof. Kasi Rajagopal	Bangalore
Vice Chair-Professional Activities	Dr. Dattatray J. Doke	Pune
Vice Chair-Student Activities	Prof. Kalyan K. Mallik	Calcutta
Vice Chair-Technical Activities	Mr. Satish Babu	Kerala
Vice Chair-Membership Development	Dr. Koduri Srinivas	Hyderabad
Vice Chair-Educational Activities	Dr. Y. N. Singh	Uttar Pradesh
Newsletter Editor	Mr. Hitesh Mehta	Bangalore
Ombudsman	Mr. Deepak Mathur	Gujarat
Members at Large	Dr. M. M. Shah	Bombay
Members at Large	Mr. Anthony Lobo	Bombay
Webmaster	Quraish Bakir	Bombay

Dr. G. Sai Narayanan, NDLP Co-ordinator

## 2. IC Execom Meetings held during the year 2012

- EC meeting was held at Kolkata, during the R10 Meet on 3-4 March, 2012.
- Two special meetings of few EC members were organized in 2012 and the minutes were e-circulated to other members.
- EC meeting was held at Kochi on 8<sup>th</sup> Dec 2012 earlier to the AGM-2012.
- During the year 2012, eight tele-conference meetings have been organised successfully almost every month except during summer vacation.
- The Bylaws of IEEE India Council have been approved by AGM, which have already been circulated to the members and sent to R10 and HQ for necessary inclusion.
- As there was no progress of the activities, from some IC Chapters, it was resolved at EC meeting held in

Kolkata, to change the non-performing Chairs. Accordingly, Mr. Deepak Garg from Thapar University, Patiala, was asked to take charge as Vice Chair of IC Computer & Educational Activities and Ms. Perna Gaur as Vice Chair of Student Activities.

## 3. Participation in R10

Dr. R. G. Gupta, IC Chair and Dr. V.R. Singh IC Secretary represented India Council at the R10 Annual Meeting held at Kolkata, India during March 3-4, 2012.

## 4. INDICON and IC Support

INDICON-2012 is being organised by Kerala Section jointly with IEEE India Council during 7-9 Dec, 2012 with the theme "Innovative Technologies in Engineering Education". This year, more than 250 papers worth publishing in IEEE explore have been received.

- INDICON-2013 will be held at Bombay as decided in previous AGM-2011 during Dec 13-15, 2013 at IIT, Bombay.
- INDICON-2014 will be held at Pune.
- INDICON-2015 will be held at Delhi (Tentative).

## 5. M.V. Chauhan Student Paper Contest - 2012

It was successfully conducted and following are the winners:

- **1st Prize:** Real-Time FPGA based Implementation of Fast ICA for Artifact Removal in Biomedical Signals by Abhinav Agarwal, Dept of EEE, IIT Guwahati, and Abhijeet Singh, Dept. of EEE, IIT Guwahati.
- **2nd Prize:** Measurement of Bulk Charge Densities of High-K Dielectric Thin Films by B. Ashish Kumar, Dept. of EEE, Silicon Institute of Technology, Bhubaneswar.
- **3rd Prize:** The Study and Implementation of Natural User Interface using Kinect by Akhil Guliani, Div. of Instrumentation and Control Engineering, Netaji Subhas Institute of Technology, Delhi.

## 6. IEEE Newsletter

Electronic Newsletter has been published regularly during all the months of 2012. The issues are archived at [http://ewh.ieee.org/r10/india\\_council/newsletters.html](http://ewh.ieee.org/r10/india_council/newsletters.html)

## 7. Support to Chapters

With the new arrangement of disbursement of rebate there was no confirmation whether Section Society Chapters have received their rebate. In particular there was no breakup provided for the amount received. A request was

made to Mr. Hitesh Mehta to liaise with Mr. Harish for information.

#### 8. Participation in the ECI BOG Meetings at Delhi

Dr. V. R. Singh participated in the meeting of the Board of Governors of the Engineering Council of India and the General Body Meeting held in New Delhi on Feb 24, 2012, August 21, 2012 & Nov 29, 2012 representing India Council.

#### 9. NDLP

Several talks have been organized this year also at different places. The National NDLP Coordinator is Prof. G Sai Narayanan. Information related to NDLP are available at India Council website at [http://ewh.ieee.org/r10/india\\_council/index.html](http://ewh.ieee.org/r10/india_council/index.html). A roster of over 100 senior professionals, who have volunteered for NDLP is made available on India Council website. These volunteers are drawn from all the sections of India Council

##### NDLP: Section Coordinators

- Bangalore: Babu Narayanan MM - babu@cpri.in
- Bombay: Quaraish Bakir - qbakir@ieee.org
- Calcutta: P.K. Basu - pkbasu\_rpe@yahoo.co.in
- Delhi: Dr. V.R. Singh - vrsingh@ieee.org
- Gujarat: Deepak Mathur - deepakmathur@ieee.org
- Hyderabad: Arun Agarwal - aruncs@uohyd.ernet.in
- Kerala: C.V. Anil Kumar - cvanil@ceconline.edu
- Kharagpur: Chandan Chakraborty  
cc\_iitkgp@yahoo.com
- Madras: Dr. N. Kumarappan  
kumarappann@gmail.com
- UP: Dr. Nandini Gupta - ngupta@iitk.ac.in
- India Council: G Sai Narayanan - sai.jgk@gmail.com

#### 10. All India Student Congress

The All India Student Congress (AISC) for the year 2012 was organized successfully during 28-30, Sep 2012 at Reva Institute of Technology and Management (RITM), Bangalore. The theme of the congress was "Empowering Students to Interact, Lead, Innovate & Inspire". There were 200 students who took active interest, from 14 Sections/ Subsections and 60 Student Branches.

11. It is a great news that Mr K Ramakrishna from India has been elected as R10 Director for 2013-14, after a long gap after Mr. H.L. Bajaj.
12. Mr. Surendra Pal, IEEE Fellow & Past Chair of Bangalore Section has been elected as the President of IETE.
13. Dr. Shivaji Chakravorti was elected as Fellow of the National Academy of Science, India.

#### 14. IEEE Fellows

*2012 Elevated Fellows: The following members were elevated to Fellow grade membership:*

1. Thangavelu Asokan, GE India Technology Centre, Bangalore for contributions to the development technologies for electrical safety.
2. Kalyanmoy Deb, Indian Institute of Technology Kanpur for contributions to revolutionary multi-criterion optimization techniques
3. K. Gopakumar, Indian Institute of Science, Bangalore for contributions to design and control of multilevel converters
4. Ranjan K. Mallik, Indian Institute of Technology Delhi for contributions to channel characterization in wireless communication systems
5. Sushmita Mitra, Indian Statistical Institute, Kolkata for contributions to neuro-fuzzy and hybrid approaches in pattern recognition
6. Sivaram Murthy, Indian Institute of Technology Madras for contributions to resource management in high performance real-time computing and communication systems
7. Venkata Narayana Padmanabhan, Microsoft Research India, Bangalore for contributions to mobile communications systems
8. Raghunath Kashinath Shevgaonkar, University of Pune, Pune for leadership in electrical engineering education in India

##### 2013 IEEE Elevated Fellows: Recently Announced

1. Jayant Haritsa, Indian Institute of Science, Bangalore for contributions to data management systems
2. Om Prakash Calla, International Centre for Radio Science, Jodhpur for leadership in space applications of microwave technology and remote sensing
3. Sreenivasa Murthy, Indian Institute of Technology Delhi for contributions to self-excited induction generators and renewable energy applications
4. Bayya Yegnanarayana, International Institute of Information Technology (IIIT) Hyderabad for contributions to digital signal processing research and education
5. Pradeep Sinha, Pune University, Pune for leadership in distributed and parallel processing systems

#### 15. Awards/ Honours

##### 2012 MGA Leadership Award

- Ramalatha Marimuthu (R10), Madras Section. For inspiring leadership in transforming young engineers



*into socially responsible professionals and encouraging innovative IEEE Student Branch and Women in Engineering humanitarian activities across the Region.*

- Darwin Jose Raju (R10), Madras Section. *For influential leadership and commitment to member engagement and promoting IEEE and Women in Engineering among young engineering professionals.*
- Anil Kumar Roy (R10), Gujarat Section. *For distinguished leadership and making outstanding contributions as a volunteer serving IEEE for the benefit of its members and the engineering profession.*

#### **2012 MGA Achievement Award**

- Debabrata Das (R10), Bangalore Section. *For excellent and relentless pursuit of IEEE goals by enhancing relationships with industry, organizing conferences, and promoting student activities within the Section, Council, and Region.*

#### **2012 MGAGOLD Achievement Award**

- Mithun Bhaskar (R10), Hyderabad Section. *For consistent and commendable efforts to improve young professional and student participation in IEEE Chapter activities in India.*
- Barnabas Muthu (R10), Madras Section. *For continuous efforts and excellent leadership in substantially increasing member retention and transition through organizing IEEE STEP programs and collaborative GOLD events.*
- Ranjit Nair (R10), Kerala Section. *For exemplary contributions to IEEE GOLD in Region 10 and for bridging generations through GOLD activities.*
- Jaison Abey Sabu (R10), Kerala Section. *For outstanding leadership and achievements in engaging, guiding, and motivating IEEE GOLD members and students across India and Region 10.*

#### **2012 R10 Outstanding Volunteer Award**

- Mr M.G.P. L Narayana of Hyderabad Section. He will receive this in Thailand during R10 Conference in March, 2013.

#### **Academic Honours/Recognitions**

- IEEE HQ to the interim Chair of GRSS (Geo-science and Remote Sensing Society) Chapter of Kolkata Section. MTTS at Bombay Section and IEEE VTS under the India Council at Vizag Bay SubSection under Hyderabad Section
- IEEE Computer Society has signed a cooperative agreement with the Advanced Computing & Communications Society (ACCS), an organization for

professionals in India, to share technical information and work together in a variety of ways.

- From the statistics for Dec 2011, Delhi Section and Bangalore Section have the highest no. of member recruitment in 2011. R10 will give these Sections USD 500 each as an incentive.
- The winner of the 2011 R10 GOLD Award is Rayees Amar Nishad from the Kerala Section.

#### **2011 R10 Distinguished Large and Small Section Award**

The R10 has selected Hyderabad Section as the 2011 R10 Distinguished Large Section.

#### **R10 GOLD Hall of Fame**

Two GOLD Affinity Groups in Region 10, namely, Kerala GOLD and New Zealand North GOLD Affinity Group are recipients of the MGA IEEE GOLD Hall of Fame Award.

#### **R10 WIE Awards**

The following two WIE Affinity Groups were selected as winners.

- Delhi Section WIE: the winner of the 2011 R10 WIE Section Affinity Group of The Year Award.
- The Student Branch WIE, Institute of Technology, Nirma University, Gujarat Section - the winner of the 2011 R10 WIE Student Branch Affinity Group of The Year Award.

#### **Industry Awards**

Region 10 Industry Relations Coordinator announced the winners of two awards as under:

1. Historical Achievement Award to Prof. V. K. Damodaran, Kerala Section
2. Academia-Industry Partnership Award to Dr. R. G. Gupta, Delhi Section

#### **Other Honours**

- The IEEE Milestone Plaque for the "First Millimetre-wave Communication Experiment" by Sir J.C. Bose in 1894-1896 was formally dedicated on 15<sup>th</sup> Sep 2012 at the Presidency University in Kolkata. In a glittering ceremony the plaque was handed over to Prof. Malabika Sarkar, Vice-Chancellor of Presidency University by Dr. Peter Staecker, IEEE President Elect. The milestone plaque was subsequently installed at a prominent location within the Presidency University campus. Dr. Peter Staecker made a valuable presentation on the importance of this milestone as well as this event. He specifically expressed his happiness to be able to be present on the occasion of the dedication of first IEEE milestones in India. Congratulation to IEEE Kolkata Section.

- Engineering Council of India: A meeting between IEEE Bangalore Section was organized for possible cooperation with Broadcom Corporation, a major technology innovator and global leader in semiconductors for wired and wireless communications, for participation in students activities.
- 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<sup>st</sup> March to 2<sup>nd</sup> April 2012. It will be a 44 member delegation consisting of 28 young students from Information Technology / Electronics / Communication engineering background.
- First time the Government of India has included in the list of representative at International Organization at Sr. No. 5 for Institute of Electrical and Electronics Engineer (IEEE).
- Again for the First time The National Innovation Council, directly under the Prime Minister has invited IEEE to attend the ceremony while their Second Report to the People being presented to the President of India, Shri Pranab Mukherjee, on 2nd November, 2012 at the Durbar Hall, Rashtrapati Bhavan. About 10 IEEE representatives from all over the country attended the same.
- Sahabana Urooj has achieved Young Associate Professional Membership Award for presenting a paper in an International Conference "Innovations in Biomedical Materials 2012" organized by American Ceramic Society at Raleigh NC USA during 10th to 13th Sep 2012.
- Mr. Deepak Mathur of IEEE Gujarat Section has been appointed as R10 Humanitarian Technology Activities Coordinator for 2013-14 (Earlier for 2009-11, he was R10 Section Congress Coordinator and 2012, R10 Humanitarian Technology Activities coordinator)
- Mr. Deepak Mathur has been elected to IEEE's Board of Governors of SSIT (IEEE Society on Social Implications of Technology) for 3 years terms starting from 1st January 2013.
- Mr. Deepak Mathur has also been serving as Newsletter Editor of SSIT.

### **Global Website Contest**

Third Place: Region 8 - IEEE IST Special Mentioning (Tie): Region 10 - Amity School of Engineering and Technology & Region 8: Student Branch TEI of Piraeus

### **Outstanding Branch Counselors**

Ranjith C - KMCT College of Engineering

Ms. Vimal Gaur - Maharaja Surajmal Institute of Technology

### **16. Visits of IEEE Distinguished Personalities**

- IC organized the Visit of Prof. V. K. Bhargava, IEEE ComSoc, President-Elect who visited Bangalore, Chennai and Delhi.
- IC organized the visit of Prof. Hugh Griffiths, IEEE AESS President-Elect, who visited Delhi, Jaipur, Bangalore, Pune, Bombay and Chennai.
- Meeting with Mr. Matt Loeb, CAE on 1st Nov regarding the development of IEEE Standards in association with R&D institutes in India.

### **17. Events/ Conferences Supported by India Council**

- 2012 First IEEE International Symposium on Cost Effective Museum Exhibits in Engineering and Applied Science to be held from 30<sup>th</sup> Nov to 2<sup>nd</sup> December 2012 at the B.M. Birla Science Centre in Hyderabad.
- 2013 2nd International Conference on Information Management in the Knowledge Economy (IMKE) at Chitkara University, Panjab.
- IACC 2013 is being organized at Engineering College, Gaziabad. Computer Society Chapter, India Council sponsored without any funds.
- First ever high valued summer school on Advanced Algorithms on 4-15 June, 2012 at Thapar University, Patiala, Punjab.
- 6th International Conference, ICACCT - 2012. Sponsored by IEEE Computer Society Chapter Delhi Section on 3<sup>rd</sup> Nov 2012 at APIIT SD India, Panipat.
- Asia Conference on Computer Science for Industry and Management (ACCSIM 2012). ACCSIM 2012 will be held in April, 2013 at Shanghai in cooperation with IEEE China.
- PrimeAsia 2012, sponsored by the IEEE Circuits and Systems Society, to be held on December 5-7, 2012 in Hyderabad, India.

- 3<sup>rd</sup> International Conference on Mobile Communication for Development (M4D2012) in Delhi on Feb. 29, 2012 for Education and Research Development in collaboration with the HumanIT, Karlstad University, Sweden.
- Global Institute of Technology, (GIT), Jaipur in association with IEEE MTTS India Council has organised National Level Conference on “Microwave Devices and Components” (NCMDC-2012) on 22-23, March 2012.
- IEEE International Conference on Technology Enhanced Education (ICTEE), January 3-5, 2012 at Amrita University, Amritapuri Campus.
- National Conference on "Recent Trends in Microwaves Techniques and Applications" (Microwave 2012) organized at Jaipur during July 30th to August 1st 2012.
- National Student Symposium on Future Technologies was held at PDM College of Engineering, Bahadurgarh on October 19, 2012.
- Workshop on Embedded Systems, PDM College of Engg, Bahadurgarh, April 16-17, 2012.
- The Dept. of ECE at Jaypee University of Information Technology, Solan is organizing the 2013 IEEE International Conference on Signal Processing, Computing and Control (ISPCC) under the aegis of IEEE Student Branch, JUIT, from 26-28 September 2013.
- “Technology and Society in Asia” IEEE SSIT Asia-Pacific Conference, Singapore, 27-29 October 2012. Sponsored by IEEE Singapore, IEEE India Council, IEEE Victoria, IEEE Society on Social Implications of Technology (SSIT), SSIT Japan, SSIT Australia.
- International Conference on Signal, Image and Video Processing 2012 at IIT Patna.
- The Aerospace Engineering Dept. of IISc organized the second edition of the conference ACODS 2012 on 16-18 February 2012
- A workshop held in Vizag which had 80 participants, three of which had come from Vietnam and Singapore.
- SIGHT - Special Interest Group on Humanitarian Technology, Gujarat.
- Sensors Conference to be held in Ahmedabad in 2013.
- On 15 Sep 2012, IEEE Milestones program was held. Dr. Peter Staecker, Pres-Elect of IEEE was present. There were 300 participants.

- 2012 Electrical and Fire Safety Workshop (EFSWIN), 8-10, Nov 2012 by Industry Applications Society - IA
- 2012 IEEE EPICS Workshop in Hyderabad Dec 2-5, 2012 supported by IEEE and Purdue Univ. at Hyderabad Section.
- 2013 IEEE Conference on Information and Communication Technologies (ICT-2013) during 11<sup>th</sup> and 12<sup>th</sup> April 2013 at Dept. of ECE of Noorul Islam University and IEEE India council is jointly organizing.
- National seminar on Glimpse of Computer Vision Research in European Countries, March 30, 2012 at PDM College of Engineering, Bahadurgarh.

#### 18. New Chapter Formation and Reactivation

- New chapter of Robotics and Automation Society is in progress of formation.
- A new chapter of Microwave Theory & Techniques (MTT) Society in Bombay Section has been formulated on 13 October, 2012.
- A chapter of the IEEE Geo-Science and Remote Sensing Society had been formed in Kolkata.
- Vehicular Technology chapter has been formed.
- Solid State Society CAS/EDS chapter has been formed in Mumbai.
- Dielectrics and Electrical Insulation Society chapter has been formed in Kolkata.
- IEEE India Council Computer Society chapter reactivated.
- EMBS chapter formation is in progress.
- IEEE India Council Education chapter reactivated.

#### 19. Slate for 2013

The nomination process for India Council office bearers has been initiated by the earlier Nomination Committee, which was approved by the Chair, consisting of Mr R K Asthana, Dr Suresh Chander Pal and Mr Raju Hira take up this activity.

#### 20. Treasurer's Report

Accounts submitted to IEEE H/Q in L50 form in time.

During 2012, a large number of activities have been organized by India Council at different places in India. I convey sincere thanks to all the members and the Chair-IC.

**Dr. V.R. Singh**

*Secretary-cum-Treasurer, IEEE India Council*



## Announcements

### Contributions

IEEE India Info, the newsletter of the IEEE India Council welcomes contributions from Sections and members.

The Section Chairs may pl. send brief reports on conferences, workshops and other major events held in the section along with info on new student & society branches added, honours & recognition to the members of the Section.

Call for papers & participation in national & international conferences organized or supported by IEEE Sections or Societies are also welcome.

While sending the matter, pl. ensure that they are in MS WORD doc / rft format. Pl. avoid matter in pdf / jpg format. For guidelines on submitting matter pl. visit <http://goo.gl/dzSIJ>

Pl. send the matter by email to [Ieeeindiainfo@gmail.com](mailto:Ieeeindiainfo@gmail.com) on or before 7th of each month.

### eBook Classics for IEEE Members

Fourteen new titles were added for the 2013 membership year. IEEE members now have access to more than 260 eBooks from the IEEE Press collection through IEEE Xplore, at no additional cost. The eBook collection spans a number of today's technologies across 15 different content area, and includes: practical handbooks; introductory and advanced texts; reference works; and professional books.

#### *Finding IEEE eBook Classics*

- Sign in to IEEE Xplore using your IEEE Account.
- Under the "Browse" heading in the left-hand navigation, click on "Books."
- Select the "Classics" tab from the top of the page. Under this tab you will find a listing of all the free titles.

### IEEE Member-Get-A-Member (MGM) Program

Through the Member-Get-a-Member (MGM) program, IEEE rewards your efforts in recruiting new members. For each new member you recruit, you earn an award which can be used toward IEEE dues, IEEE Society fees or the purchase of IEEE products and services. During the 2013 membership year (16 August 2012 through 15 August 2013), the IEEE MGM Program offers the following award schedule to members who recruit other individuals into IEEE membership.

Professional members can earn:

- US\$15 for each Professional member recruited;
- US\$5 for each Professional member recruited to e-Membership (offered in developing nations only);
- The maximum amount a member can earn during the membership year is US\$90.

Student members can earn:

- US\$2 for each Student or Graduate Student member recruited;
- US\$15 for each Professional member recruited;
- US\$5 for each Professional member recruited to e-Membership (offered in developing nations only);
- The maximum amount a member can earn during the membership year is US\$90.

More info at <http://goo.gl/u9PRP>

### Member Grade Elevation

IEEE membership enhances every stage of your career. Whether you are an established professional or just starting out, IEEE membership identifies you as superior talent. Advancing your member grade can bring added peer recognition to your accomplishments. Grade advancement is encouraged because it is required, in most cases, for key volunteer positions at the IEEE. More at <http://goo.gl/0QvKQ>

### Conferences & Events

IEEE sponsors more than 1,300 annual conferences and meetings worldwide. IEEE is also highly involved in the technical program development of numerous events including trade events, training workshops, job fairs, and other programs. For more information about an IEEE conference, search the IEEE conference database. Details at <http://goo.gl/pzJ47>

### Education & Careers

IEEE offers a wide range of learning, career enhancement, and employment opportunities within the engineering sciences, research, and other technology areas. The goal of these programs is to ensure the growth of skill and knowledge among professionals and to foster individual commitment to continuing education among IEEE members, the engineering and scientific community, and the general public. More at <http://goo.gl/kS4Kk>

### IEEE Medals, Technical Field Awards, and Recognitions

The IEEE Awards Board (AB) administers the highest medals, awards, and recognitions presented by IEEE. Through its Awards Program, IEEE advances the interests of its members by recognizing their contributions in advancing the fields of interest to IEEE to the benefit of society. By this means, the image and prestige of the organization, its members, and the profession are all enhanced. The IEEE Awards Program honors members and other professionals for their service to society. More at <http://goo.gl/mUeOR>

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## Our Newsletter

IEEE-India Council publishes: **IEEE India Bulletin**, a monthly newsletter for the benefit of IEEE members in India. This newsletter is sent free-of-cost to all IEEE members in India. **And now, this newsletter is also available on-line !**

**Want to write for IEEE India Bulletin ? :**

You are welcome to contribute articles for the newsletter.

Please right click and open in new window to get the required news letter

<b>2012</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">Jun</a>	<a href="#">Jul</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2011</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">Jun</a>	<a href="#">Jul</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2010</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2009</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2008</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2007</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2006</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2005</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2004</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2003</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2002</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>2001</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>

<b>2000</b>	Jan	Feb	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	Oct	<a href="#">Nov</a>	<a href="#">Dec</a>
<b>1999</b>	<a href="#">Jan</a>	<a href="#">Feb</a>	<a href="#">Mar</a>	<a href="#">Apr</a>	<a href="#">May</a>	<a href="#">June</a>	<a href="#">July</a>	<a href="#">Aug</a>	<a href="#">Sept</a>	<a href="#">Oct</a>	<a href="#">Nov</a>	<a href="#">Dec</a>

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