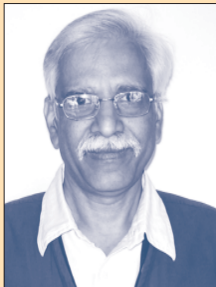




Chairman's Message



Dear Members,

I remind and appeal to all the members for renewing immediately the IEEE membership, if you have yet not done so.

The year 2009 is coming to a close. We had celebrated the IEEE 125th anniversary at Bangalore, one of the eight venues chosen by the Head Quarters for celebration. The IEEE All India Student Branch Counselor Congress, Women in Engineering Congress WIE'CON '09, and Region10 IEEE GOLD Congress were successfully held at Bangalore to

bring together different sections of IEEE.

The IEEE conference on Technologies for Humanitarian Challenges organized by the India Ad Hoc Committee in August and the INDICON 2009 by Gujarat Section are the two major technical events. The International Conference on Vehicular Electronics and Safety by Bombay Section in November at Pune, World Congress on Nature and Biologically Inspired Computing (NaBIC-2009) at Coimbatore during 9-11 December 2009, and International Conference on Applied Electromagnetics AEMC 09 to be held at Hyatt Regency Kolkata during December 14-16, 2009 are some of the major technical conferences of the year.

I wish to thank Prof. V K Damodaran and Mr N T Nair, the Editor and Publisher of the IEEE India Info, who have rendered yeoman service to IEEE and the India Council Info/ Newsletter. Their contributions are immeasurable.

The distinctions won by many of our Members, Sections, Chapters, Branches etc, reported in our newsletter from time to time are commendable. In particular, the achievement of students from B.V. Bhoomaraddi College of Engineering and Technology, Hubli, Karnataka bagging second prize of \$ 5000 in the IEEE President's "Change the World" Competition is commendable.

'AGROBOT - Robots in Agriculture' by Nagendran Rajendran, Udumalpet and 'Information System on Human and Health Services (ISHHS)' by Sampathkumar Veeraraghavan, Medford, USA, and 'NIDAAN - An e-Healthcare Solution for the Under Privileged' by Sumit Pandey, Gandhinagar - each won \$ 1000 in the competition. They also deserve rich accolades from all of us.

The recent additions to this: Election of Prof. Mini Thomas, New Delhi, India to MGA Vice Chair-Member Development, Dr. Arun Agarwal (Hyderabad Section) receiving the 2009 R10 Outstanding Volunteer Award, and Prof. Ramalatha Marimuthu receiving 2008 Outstanding Branch Counselor/Advisor Award. Congratulations to you all and also other IEEE members and volunteers who made their mark in 2009.

This year we have an all time high of 6 IEEE Fellows elected from India to 2010 IEEE Fellow Class. We congratulate **Tinku Acharya**, Intellectual Ventures, Kolkata, **Shivkumar Kalyanaraman** IBM India Research Laboratory, Bangalore, **Shiban Koul Koul**, IIT Delhi, **Ashwini Kumar Nanda**, HPC Research Inc, New Delhi, **Bhim Singh**, IIT Delhi, **Vishwanath Sinha**, The LNM IIT Jaipur.

I hope the New Year will bring more members and committed volunteers to IEEE movement in India, which will enable us to remain as a major force to reckon with in the Asia - Pacific Region.

I wish you all a Very Happy Christmas and A Very Happy, Healthy and Prosperous New Year-2010!!

Kasi Rajgopal
Chairman, IEEE India Council
kasi.rajgopal@ieee.org

Bangalore
01 December '09

Message from N.T. Nair, Publisher



Dear Members,

It was a long journey from the two-page IEEE newsletter of the early 90s to this Dec '09 issue in your hands. In our country, a good number of IEEE members are centered round the HQs of the Sections and Sub-sections. The plight of the remaining members, not insignificant to be ignored, but thinly spread in other regions away from the active centres, is not anything to be proud of. They just get the Spectrum and the notices of the IEEE meetings that are to be held in far away city centres. The real connecting link among all these members for all

these years has been the *IEEE Newsletter*, reaching every member with clockwork precision every month, without fail for the past two decades. It informs every member about the happenings in IEEE forums in India, in a simple, sincere, and effective way, also acting as the unique thread tying all our members together.

This networking of IEEE members was possible because of the unstinted support extended to newsletter activity from time to time by those at the helm of affairs in IEEE entities in India, and of course, the members. Prof. V. K. Damodaran, Editor, led the way and I could in my humble role as publisher, lend support. The only difference is that these roles switched during the long innings both had during the past two decades.

With this Dec'09 issue of newsletter, we two are stepping down from our saddles, thanking the entire IEEE fraternity in India for their goodwill and the confidence they bestowed on us during the entire period of newsletter activity under IEEE India Council.

Thank you, thank you!!

Trivandrum
01 December '09

N.T. Nair, Publisher
ntnair@ieee.org

IEEE INDIA COUNCIL PROPOSED SLATE FOR 2010

The Nomination Committee chaired by Er N T Nair and consisting of Er R. Muralidharan and Er R. K. Asthana has proposed the following slate for the IC for the year 2010. Additional nominations, if any, may kindly be sent to Er K. Ramakrishna, Secretary, India Council, Bangalore at kramakrishna@ieee.org before 4 pm on 31 December 2009.

Serial No.	Post	Section	Name
1	Chair	Bangalore	Prof. Kasi Rajgopal
2	Exe. Vice Chair	Chennai	Dr Suresh Chander Pal
3	Secretary / Treasurer	Bangalore	Shri K. Ramakrishna
4	Immediate Past Chair	Kerala	Shri N. T. NAIR
5	VC - Professional Activities	U. P	Dr Ajit K. Chaturvedi
6	VC - Student Activities	Mumbai	Prof. B. R. Prabhu
7	VC - Technical Activities	Gujarat	Shri Deepak Mathur
8	VC - Educational Activities	Hyderabad	Dr M. B. Srinivas
9	VC - Membership Development	Delhi	Dr R. G. Gupta
10	News Letter Editor	Bangalore	Shri Hitesh Mehta
11	Ombudsman	Gujarat	Mr Arup Ranjan Dasgupta
12	Member at Large	Kolkata	Prof. K. K. Mallik
13	Member at Large	Mumbai	Shri Quraish Bakir

If there are no nominations by petition for the above Slate according to the IEEE Bye Laws, the above panel will be declared as elected and the office bearers may take charge of the respective port folios from January 1, 2010. The Final Slate will be published in the January 2010 issue of the Info.

From India Council Secretary



Dear Members of India Council,

This is the last issue of Newsletter in the year 2009 brought forward to you by India Council. You may be aware that there is an expected change in the editorial board of this Newsletter from the year 2010. Further, continuance of print version of the Newsletter may also become an issue of concern and may have to be decided during the AGM of India Council scheduled in this month. Whatsoever the case may be, the soft copy would always be mailed

to all members who are in the mailing list of India council. It is therefore requested that every IEEE Member in India is required to check & update his/her e-mail and other contact details by browsing through My Profile Portal of IEEE Web site.

I sincerely urge one and all to renew the IEEE membership dues for 2010 on priority and also advise interested friends/colleagues to become part of the prestigious IEEE world wide technical/professional community by simply logging on to the IEEE Membership Portal, for which you may keep your web account user name and password ready.

The IEEE GOLD Congress has just concluded at Bangalore with the success note of grand participation both by delegates and eminent speakers on 5 and 6 December 2009. A report of the same with photos and videos can be found in the Bangalore Section website. INDICON 2009 being organized by the Gujarat Section, on behalf of India Council, is scheduled from 18 to 20 Dec 2009 at Gandhi Nagar. All Members are requested to actively participate in this last India Council event for the year 2009.

It is also requested that the multiple benefits of IEEE membership and IEEE like networking, problem solving, knowledge sharing, etc may be spread amongst your friends and volunteers so that the new members can be inducted into the IEEE India in the coming year.

Wish you all a very bright, challenging and successful IEEE year of 2010.

Yours sincerely
K Ramakrishna
Secretary
Email: kramakrishna@ieee.org

NCISE 2010

2nd National Conference on Information and Software
Engineering 26-27 February 2010

Organized by:

IEEE Computer Society Madras Chapter; IEEE Computer Society Branch
Chapter-AVIT; Department of Information Technology, Aarupadai Veedu
Institute of Technology and Vinayaka Missions University

In Association with CSI Division-II (Software)

The two day National Conference has two main tracks presenting special lectures by the eminent persons from industries/academia. Contact:

Dr.A.Anthony Irudhayaraj,

Program Chair - NCISE 2010 at ncise2010@gmail.com

Website: www.avit.ac.in

IEEE 3-5 Year Goals

The following Goals are outcome-oriented statements that represent what will constitute the organization's future success:

- ◆ Industry professionals and their employers will value IEEE as a major resource to achieve success.
- ◆ IEEE will improve the professional competencies of students and professionals through education.
- ◆ IEEE will increasingly be valued by the global community as a catalyst for a balanced dialogue on technology-related issues.
- ◆ The public will increasingly value the role of IEEE and technical professionals in enhancing the quality of life and the environment.
- ◆ IEEE members will increasingly find value and enjoyment through their involvement in the organization.
- ◆ IEEE will operate as a model global association, with aligned purpose, energy, and infrastructure that facilitates the development and execution of coordinated strategy.

IEEE Fellows 2010 from India

1. **Tinku Acharya, Intellectual Ventures, Kolkata**
For contributions to very large scale integration algorithms and architectures for electronic image processing
2. **Shivkumar Kalyanaraman, IBM India Research Laboratory, Bangalore**
For contributions to traffic management in computer communication network
3. **Shiban Koul Koul, IIT Delhi**
For contributions to analysis and design of microwave and millimeter wave components and circuits
4. **Ashwini Kumar Nanda, HPC Research Inc, New Delhi**
For leadership in high performance computer systems
5. **Bhim Singh, IIT Delhi**
For contributions to active power filters and multipulse AC-DC converters
6. **Vishwanath Sinha, The LNM IIT Jaipur**
For contributions to electrical engineering education

Congratulations from India Council and our members in India

Congrats Dr Mini Thomas!

The MGA Assembly meeting held in New Brunswick, NJ this November elected Dr Mini Thomas, New Delhi Section to MGA Vice Chair-Member Development. Mini is Professor in the Department of Electrical Engineering, Jamia Millia Islamia (JMI), a prominent Central Government University in New Delhi, India.

She is an incumbent Region 10 Student Activity Committee Chair. *Excellent recognition for her drive and initiative in invigorating the Student activities!*

Congratulations from IEEE Fraternity in India



TECH NEWS

Energy Labelling to save Rs. 80,000 Crore

Our target for avoided facilities for postponed generation of around 10,000 MW (in the first 3 years it is over 4400 MW) can realize a saving of Rs. 80,000 Crore in investment for the nation – BEE Chief Dr. Ajay Mathur estimates so. From January 7, 2010 the labeling programme is to have a wider and fuller reach for the products already targeted for labeling.

Solar Energy Can Help Meet Global CO2 Challenges Quickly

Global solar industry leaders have come to COP15 to showcase the immediate capability of solar power to deliver clean energy and reduce harmful carbon dioxide emissions (CO2). The European Photovoltaic Industry Association (EPIA) and the U.S.-based Solar Energy Industries Association (SEIA) are spearheading the **SolarCOP15** initiative in Copenhagen, supported by over 40 solar trade associations from around the world.

According to a new report released by the group, photovoltaics (PV) alone could provide up to 12 percent of the European Union (EU) electricity demand by 2020. In the United States, the combination of PV and Concentrated Solar Power (CSP) could deliver 15 percent of electricity by the same year. Together, this would reduce CO2 emissions by nearly 1 billion tons annually and create 6.3 million jobs. Accelerated and baseline projections are presented in the report, including China, India, and Sunbelt countries among others.

In Europe alone, meeting the 12 percent PV industry target would imply an avoidance of 220 million tons of CO2 annually by 2020.

“Solar technologies are available now and ready to deliver clean energy while creating economic opportunities around the world,” said SEIA President and CEO Rhone Resch.

Land Degradation also causing Climate Change

Dry lands cover more than one third of the world's terrestrial area. Land degradation in these regions is a driver of climate change. Conversely, dry land ecosystems and populations are among those most affected by the adverse effects of such change. Yet the linkages between climate change and dry land degradation have so far scarcely featured in climate policy debate.

In a recent book entitled ‘climate change and dry lands’, a comprehensive overview of the state of research on the complex issues surrounding the subject is given. It reveals systematically the various interrelations and feedback mechanisms, with detailed information about the contribution of dry lands to climate change. The authors also discuss how sustainable land management can be made part of the response to climate change. The book compiles facts and figures, charts the way forward, and highlights knowledge gaps, uncertainties.

Source: oekom verlag München 2009

Happy vs. Unhappy

Happiness is as a butterfly which, when pursued is always beyond our grasp; but if you sit down quietly, it may alight upon you - *Nathaniel Hawthorne*

Unhappiness is best defined as the difference between our talents and our expectations - Edward de Bono

Use energy more efficiently; Save 20% on energy needs –says Kirit Parikh

India needs to grow at 8-10 per cent for the next two decades if the country is to eliminate poverty. This will require our energy consumption to grow 4 -5 fold. Our power capacity has to increase from around 170,000 MW, including captive plants, to 800,000 to 1,000,000 MW by 2030.

With the full development of hydropower, an optimistic nuclear development scenario and improved availability of natural gas, we will need around 500 MT of oil products, 200 billion cubic metres (bcm) of gas and around 2,000 MT of coal by 2030.

This compares with an oil consumption of 133 MT, gas consumption of 37 bcm and coal consumption of about 525 MT (Indian coal equivalent) in 2008. Even with the nuclear agreement, the nuclear capacity is not likely to reach more than 100,000 MW by 2030.

Our import dependence may grow as high as 90 % for oil, 30 % for gas and 30 % for coal. We can reduce this by promoting energy efficiency and renewable resources.

Coal will remain our main energy source. It is generally believed that we have very little oil and gas, but large coal reserves. However, the currently known extractable coal reserves will run out in 45 years if our coal consumption keeps growing at 5 per cent per year, as it has been in the past 25 years.

Thus, it is important to promote energy efficiency, including in coal use. The growing threat of climate change also requires this.

The first task in saving energy is to increase the efficiency of electricity use. A unit saved at the consumer end saves 1.25 units of generation and saves further energy, as coal does not have to be transported.

INDICON 2009 18-20 December 2009

INDICON 2009, is scheduled to be held at DA-IICT, Gandhinagar, Gujarat.

The formal inauguration of the conference is for 1630 hrs to 1800 hrs followed by the inaugural dinner. Dr. Rangachar Kasturi has confirmed his participation.

On behalf of the organizing committee of INDICON 2009, Anil Roy, Chair Gujarat Section will be happy to get those volunteer leaders confirm their presence and participation along with the accommodation requirements. Indicating the range of room that each one may be looking for to stay will also help. For detailed schedule of INDICON 2009 you may visit our website <http://ewh.ieee.org/r10/gujarat/indicon2009/>.

I've failed over and over and over again in my life and that is why I succeed - Michael Jordan

EDITORIAL



Parting Notes

Change is essentially needed for all organizations to grow. It should be true of IEEE and the India Council Info too. And the two unsung direct players in this field are bowing out gracefully. As N.T. Nair has recollected in his remise note in page 1, it has been a relay running with this Newsletter afloat, between Nair and me, repeated three rounds. We have enjoyed every bit of it. We have felt that we are privileged to have been chosen to keep the only physical connecting link between our members alive for so many years. The very same 'Post office' as seen by Rabindranath Tagore decades back, is still delivering the Bulletin to the members who are even at the remotest corners of India, with the sentiments of the addressee remaining the same!

If our Secretary's note in this issue is any indication of the prevailing thought of our Section office bearers and the IC collectively, the printed organizer viz., the IEEE India Info has a shorter life expectancy than many would imagine, amidst the expectations of the views-unsolicited scattered members of the IEEE in India. As Technology changes, priorities change and this kind of activities also would change for the better! – But, what is 'better' is subjective to each and every one of us, and certainly it can not be objective. Whether the print version survives or not, the binding stuff can still be found in the web space, a space which we all love to visit. That is it.

Resource constraint being what it is it never was possible for us to make it an attractive publication, containing illustrated accounts of all the transactions under the IEEE banner in India every month. As Editors, we two have to take the responsibility for all that has been missing in the volumes that we brought out over the past nearly 20 years. What we carry with us is the pride that ours could be the hands that delivered the issues without fail every month. Also, we could be the volunteers of this great

professional Society, where many remember our names and faces for so long! What more can any volunteer expect from a growing organization?

If our members would approve the Slate for 2010, as used to be in the past, Mr. Hitesh Mehta will be editing the Info from January 2010 onwards and the publication centre will move to Bangalore. As a well wisher of the Info, I am confident that with a larger member concentration in Bangalore and with up-to-date facilities in the city and added vigour from the new team, a totally new Info will emerge to the satisfaction of all of us and may be conserving money too. Let us all look forward to the New Issues of IEEE India Info and please permit us to bid farewell to the cyclic monthly demand on our time, while assuring all of you that we would continue as volunteers in several other fronts of IEEE activities as well as in the Kerala Section, which had always assisted us to be punctual.

Thanks are due to the several IC Chairmen and Secretaries, and Section Office bearers with whom we worked so effortlessly and also to the countless members and officers who helped us with reports, news, photographs and advice to get the pages of Info full of reports on the novel efforts from various corners of the country and the concise bulletin allowed to go on unflinchingly for this many years.

Regards

Trivandrum
12 December 2009

V K Damodaran
Editor, vkd@ieee.org

Editorial Board

Prof. V K Damodaran	– Editor
N T Nair	– Member; Publisher
K Ramakrishna	– Member
S L N Murthy	– Member

visit: http://www.ewh.ieee.org/r10/india_council

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