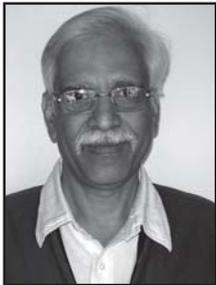




## IEEE THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC

### Chairman's Message



Dear Members,

IEEE is celebrating its 125<sup>th</sup> Anniversary all over the world starting from 13th May 2009. The Global celebrations are planned at 8 Sections from all the 10 Regions. IEEE HQ is commemorating its 125<sup>th</sup> Anniversary this year with a variety of activities surrounding the theme of "Celebrating 125 Years of Engineering the Future." Major anniversary events include the first IEEE President's *Change the World*

Competition's for college and university students worldwide; a global media round table and Webcast addressing emerging, world changing technologies; a series of celebrations in major world cities throughout the year; and IEEE Engineering the Future Day on 13 May 2009. The latest information is available on the new anniversary Web site <http://www.ieee125.org/>.

In India, all Sections, Society Chapters and Student Branches should plan and organize appropriate program to celebrate the event. Apart from the celebrations, the objective of the event is to spread awareness of IEEE in Industry, both core engineering and Information Technology, Academic Institutions, and Students in their region.

IEEE Power and Energy Society Bangalore Chapter along with the Bangalore Section is organizing a two day National Workshop on 'Large Scale Integration of Wind Energy into the Grid' on 20-21 Feb. 2009. INDICON 2009 is tentatively planned for 18-20 Dec. 2009 at Gandhinagar/Ahmedabad by the Gujarat Section. Approval for continuation of National Distinguished Lecture Program (NDLP) has been received from IEEE HQ. All Sections should make good use of this program as it is funded by the IEEE HQ. The details of NDLP program are available in the April 2008 Newsletter ([http://www.ewh.ieee.org/r10/india\\_council/newsletters/2008/apr08.pdf](http://www.ewh.ieee.org/r10/india_council/newsletters/2008/apr08.pdf)).

India council congratulates the Outstanding Volunteer Awardees Mr. Deepak Mathur, Gujarat section and Mr. Rajagopalan Kannan, Hyderabad Section on their achievement and flying the flag of volunteers high.

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

**Kasi Rajgopal**

Chairman, IEEE India Council  
[kasi.rajgopal@ieee.org](mailto:kasi.rajgopal@ieee.org)

Bangalore  
01 Feb. '09

### IEEE Code of Ethics

We, the members of the IEEE, in recognition of the importance of our technologies in affecting the quality of life throughout the world, and in accepting a personal obligation to our profession, its members and the communities we serve, do hereby commit ourselves to the highest ethical and professional conduct and agree:

**2. to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist**

### Tech News

#### Carbon Dioxide Measurement : *NASA Mission*

Measuring carbon dioxide very precisely in Earth's atmosphere all over the world, especially near Earth's surface is a challenging task.

For investigator David Crisp of NASA's Jet Propulsion Laboratory, Calif., and his team, the logical solution was an Earth-orbiting spacecraft to meet the mission's demanding requirements - An observatory containing a custom-built instrument designed to make the most difficult atmospheric trace-gas measurement that's ever been made from space.

All of Earth's trace gases combined, including carbon dioxide, make up less than one percent of Earth's atmosphere. In addition, carbon dioxide levels vary by only about two percent from pole to pole.

To substantially increase our understanding of how carbon dioxide sources (places where carbon dioxide is emitted) and sinks (places where it is absorbed, or stored) are geographically distributed on regional scales and study how their distribution changes over time, the new mission needed to be able to resolve differences in atmospheric carbon dioxide as small as 0.3 percent on regional scales every month.

While one spaceborne instrument is already making carbon dioxide measurements from space -the Atmospheric Infrared Sounder on NASA's Aqua satellite- it sees the gas high up in the atmosphere, not near the surface, where it is emitted and where some of it is absorbed into land systems and the ocean.

Carbon dioxide, like all molecules, has an affinity for certain colors, or wavelengths, of light that have exactly the right energy to make the molecule vibrate or rotate at specific frequencies.

So, if you could shine a light through Earth's atmosphere and see how the different colors that are sensitive to carbon dioxide respond, you could use that information to calculate how much carbon dioxide is present. By precisely doing this, it would be possible to see changes in carbon dioxide levels over time.

The observatory uses the sun as its light source. To measure changes in sunlight as it passes through the atmosphere, its instrument incorporates a trio of high-resolution grating spectrometers, which divide light from the sun into a very fine rainbow of colors called a spectrum.

As the Orbiting Carbon Observatory satellite circles the globe, the telescope on its instrument captures sunlight reflected by the surface below-light that has traveled from the sun, down through Earth's atmosphere and back up again to space.

It sends the light to the three spectrometers, and the resulting spectra can help to count the number of carbon dioxide or oxygen molecules in the atmosphere, the researchers claim.

### Editorial Board

<b>Prof. V. K. Damodaran</b>	- Editor
<b>N. T. Nair</b>	- Member; Publisher
<b>K. Ramakrishna</b>	- Member

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

Consider the postage stamp: its usefulness consists in the ability to stick to one thing till it gets there - *Josh Billings*

## From India Council Secretary



Fellow Engineers,

In this 125th Anniversary Celebrations Year for IEEE, I wish all IEEE members a happy & fruitful results year of IEEE activities to be carried out with great ecstasy and zeal. I also wish that every Section in India comes out with an announcement marking the 125th Anniversary of IEEE in all its

events. We welcome highlights of all such events of 125th year in your Section for wide circulation through IEEE India Info News Letter.

IEEE India has lot of potential to rise to global leadership with the excellent strength of its current resources . However, our objectives of the Indian Sections are scattered in different directions though technically focused. The India Council should develop an appropriate strategy to work towards such an extent of bringing cohesiveness in our actions and thoughts which can yield effective and efficient results of all our selfless efforts. Let us discuss the problems collectively with a strategy to achieve common goals and also work for the resources to enact them for which IC is precisely looking ahead viz. necessary support from Sections and Headquarters for all these years. However, this gap was bridged to some extent by our predecessor IC committees and we look forward to strengthen support from all the Sections to make a bright IEEE India in future.

It is a matter of pride to announce that IC's National Distinguished Lecturer Program (NDLP) initiative has received a pat from the Headquarters to continue further for the year 2009 also. Request all the members to give wide publicity to this initiative (details of which are available in the India Council web site) so that the motto of IEEE – "Fostering Technological innovation for the benefit of Humanity" is truly achieved.

With Best Regards,

**K. RAMAKRISHNA**

Secretary

Email: kramakrishna@ieee.org

## Quotes

Competition has been shown to be useful up to a certain point and no further, but cooperation, which is the thing we must strive for today, begins where competition leaves off.

- **Franklin D. Roosevelt**

‘People ask the difference between a Leader and a Boss..... The Leader Leads, The Boss Drives.’

- **Theodore Roosevelt**

Economy is a savings-bank, into which men drop pennies, and get dollars in return

- **Josh Billings**

## IEEE News and Events

### SAMPARK 2009



IEEE Gujarat Section organized its brand event ‘Sampark’ on 18<sup>th</sup> January 2009 to mark 125<sup>th</sup> year celebration of IEEE. Sampark was started with the objective of planning during networking. The event is organized by IEEE student volunteers for student members of the Gujarat Section. This provides an excellent opportunity to network and discuss about the program from IEEE for the year so that membership can provide value addition as desired/perceived by Student members.

In ‘Sampark’ student share their experiences about IEEE, discuss with section’s leaders and also participate in team building activities. The idea was to create interesting events that reinforced the students’ commitment to work as active IEEE volunteers. Gujarat Section started this event in 2006 and has been very popular and successful.

The venue of the event was selectively kept at a nature park in Gandhinagar to provide a perfect place with proper ambience to network and discuss future IEEE programs. The event was participated by 100+ members representing all 6 active student branches (GCET, DAIICT, ISTAR, UVPCE, ADIT, NIRMA) of Gujarat Section. All section leaders along with Section Chair Dr Anil Roy and Past Chair Mr. Deepak Mathur addressed the students and provided useful guidance for organizing program for adding value to their profile.

Ravi Shah of UVPCE Student branch took lead in organizing ‘Sampark 2009’ and did a perfect job. A brief presentation was made on various IEEE related activities like WIE, GOLD, 125 year celebration, IEEE member benefits, Journal and affiliate IEEE societies, Careers, and IEEE educational activities. After the presentation, students participated in team building activities. The day long activity was full of fun and action, which provided students an opportunity to decide their future IEEE activities.

The names of other volunteers who actively contributed in organizing the event and running the activities: Harshil Bhatt, Nishesh Patel, Kevin Naik, Dhruv Patel, Nashush Barad, Viraj Sheth, Parth Jadeja and Yash Gorakh.

[Reported by: **Deepak Mathur**, Gujarat Section]

## IEEE News and Events

### 2008 R10 Outstanding Volunteer Awards

*Message from Y W Liu, R10 Awards Committee Chair:*

Dear R10 Section Chairpersons,

The 2008 R10 Outstanding Volunteer Award result has been worked out by the Awards Committee. Three outstanding volunteers are selected as recipients of the Award.

They are:

Deepak Mathur of Gujarat Section

Rajagopalan Kannan of Hyderabad Section

Hideyuki Sawada, Shikoku Section

Rajagopalan Kannan of Hyderabad Section will be invited to receive his award at the 2009 Region 10 Meet dinner banquet in Hanoi. His travelling expenses will be reimbursed by R10. The other certificates will be posted to the Section Chairs for presentation at an appropriate Section event.

The competition was intense and all volunteers nominated have made great contributions to the IEEE family. For candidates not selected this time, it is because of the rule and limitation set in the Awards Program. Please do continue your good work and I am sure that your effort will be recognized very soon.

Congratulations again on a job well done by winners.

Y W Liu

### Congratulations!

Congratulations to all the Outstanding Volunteer Awardees on behalf of the IEEE India Council.

My congratulations to both Mr. Deepak Mathur and Mr. Rajagopalan Kannan on their achievement and flying the flag of volunteers high.

**Prof. Kasi Rajgopal**  
Chairman, IEEE India Council

### NDLP News

IEEE New Initiatives Committee has approved the continuation of NDLP Project for 2009 as the funds allotted last year are yet to be utilized fully. All section coordinators may plan NDLP programs as per the guidelines and submit claims for reimbursement. NDLP programs may be held at locations other than the headquarters of sections/subsections to extend the benefit of IEEE to members from other areas.

with warm regards

**S. Gopakumar**  
National Coordinator, NDLP, India Council  
SAC, Kerala Section  
My Skype id: sgopakumar

### Recognition for Gujarat Section Volunteers

'Conference Presentation Online' – a project under new initiative scheme of IEEE has been successfully completed in Dec 2008 by the IEEE Gujarat Section. The project was sanctioned to the Gujarat Section under the leadership of Mr. Deepak Mathur and Dr. Anil K Roy in Feb 2008. The outcome was appreciated by the committee headed by the then President-elect Dr. John Vig and the report has been recommended as a model for forthcoming New Initiative Seed Grant Projects.

Dr Anil Roy, Chair IEEE Gujarat Section has been invited to serve on an Adhoc with Dr. Ron Jensen, the current chair of the IEEE Strategic Planning Committee, as the chair of the ad hoc, which will further look into the implementation of recommendations of the initiative. This is, indeed, an exemplary recognition for any volunteer.

Dr Roy has also been invited by the IEEE President Dr. John Vig to serve on another very focused Adhoc on 'India Initiative' with Dr. R. Kasturi and Mr. R. Muralidharan, as co-Chairs, that will explore opportunities in India as a Model for IEEE's Global Growth. Mr. N.T. Nair is also one of the IEEE volunteers from India who has been selected to contribute in this Adhoc.

## Obituary

### Mathew Joseph IEEE volunteer, passed away

We report with deep sorrow the sad demise of Mathew Joseph, an upcoming IEEE volunteer and technical wizard, at Trivandrum on Jan 19, 2009 after a cardiac arrest. He was working with Reliance Industries.

Mathew was Joint Secretary of IEEE FISAT student branch, Vice President of LINK 2006, Vice Chairman of nautilus-the convergence, FISAT tech fest & AKSC 05, and also recipient of Best Student Volunteer Award of LINK 07.

*May his soul rest in peace.*

[Editorial Team]

**Message from Dr. Mini S. Thomas, R10 SAC**

Dear Council, Section & SAC Chairs, and Student volunteers,  
A very happy new year to all of you! Let me thank all of you for the support received in 2008 for the activities of the SAC committee and request all of you for continued support in 2009.

I am happy to announce the first set of R10 SAC activities/contests/awards lined up for 2009.

1. **IEEE 125th Anniversary R10 student Congress 2009**, July 16-19 2009, Singapore <http://iee125sc.org>
2. **PG & UG Student Paper Contests**: Deadline 15th March 2009
3. **Branch Counselor's Congress proposals**: Deadline 15th March 2009
4. **Larry K. Wilson Award** Deadline 28th February 2009
5. **R10 Outstanding Student Branch Award & Exemplary Student Branch Certificate**: Deadline 28th February 2009
6. **The R10 website contest** deadline will be 15th April 2009
7. **The outstanding Branch counsellor/Adviser award** (HQ level) deadline is 28th February 2009

For details, please visit Student activities page at the R10 website at [http://www.ewh.ieee.org/reg/10/Student\\_Activity/Student\\_Activity\\_Main.htm](http://www.ewh.ieee.org/reg/10/Student_Activity/Student_Activity_Main.htm)

Please actively participate in all the events.  
For More Information Please Contact Me.

Best wishes

**Mini S. Thomas**

R10 SAC coordinator

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**Editorial****Green Technologies  
Where are they?**

You might say that there are several green technologies already on the ground and that we in India are inclined to go for it. Is it really true? I really admit that there are many in the horizon and some are being utilised hesitatingly in India. We discuss a lot as to why we should reduce the GHG emissions as a developing country, finding fault with the polluting developed countries. Even where green technologies are agreed to as cost effective and beneficial on the long run, there are many things in the codes of practices and the manuals that any user has to obey, that makes the real practicing of it rather an uphill task. So, what we do? Where are those green technologies that we can put to practice - especially in the EE arena?

I think IEEE in India has to work in unison with our Standards bodies, bodies prescribing codes of practices and agencies certifying new materials and processes for application, so that the professionals at design and implementation levels have a free hand to practice what we preach. Can that be a priority activity of India Council this year? Can the issues related to all these be discussed in some meetings of the Sections with other experts too, as many EE areas down the hill are interdisciplinary or inter related.

Regards,

Kisumu, Kenya  
11 Feb 2009

**V.K. Damodaran**

To

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**FEBRUARY 2009**

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