

## 15<sup>th</sup> Annual Symposium on Technological Advances and IT Applications for Indian Power Sector

IEEE Bangalore section is one of the most vibrant sections in India. Every year, it organizes an Annual symposium on the topic of current interest, with the goal of bringing together the corporate, academia and the students. It provides a platform for discussions, interactions and networking of professionals with in the field. The theme for the 2006 annual symposium was "Technological Advances and IT Applications for Indian Power Sector."

The 15<sup>th</sup> Annual symposium was organized over 2 days



(24<sup>th</sup> and 25<sup>th</sup> November 2006 at Central Power Research Institute, Bangalore ) with three sub themes —Professional Paper Presentations, Industry Invited Talks and Student Paper contests ( BRV Varadan Undergraduate paper contest & IEEE Bangalore section Post Graduate student paper contest).

The Annual symposium was inaugurated on 24<sup>th</sup> Nov 2006 by IEEE Bangalore section Chairperson – Shri A K Tripathy, Director General, CPRI. The guest of honour was DR. Lin L. Chase, Director of Accenture Technology Labs India. She also delivered the plenary talk on Home Automation and



Robotics. The sessions on the day were on: Power System Operation & Power Electronics applications, Regulation and Allied Topics, Distribution Automation, Power System Stability and featured papers from both-professionals from organisations like CPRI, Kalki, PRDS and Academic institutions like IISc, IIT-

Kanpur, Dayalbag College of Engineering,Agra, MSRI. Another invited talk was by Prof. John L Schmalzel, PhD, PE (Rowan University) regarding Intelligent Sensors.

On 25<sup>th</sup> Nov 2006 Invited talks were delivered by G. Ilango, Easun Reyrolle Ltd on AMR- an Insight , and Shri N. Murugesan of CPRI on SCADA for KPTCL the Power Transmission utility in Karnataka. These talks set the stage for the subsequent sessions on Distributed Automation and on IT & Home Automation featuring eminent speakers from ECIL, IIIT-Hyderabad, JSS Academy. A wide range of topics were discussed such as Information Security framework for utilities, Communication over power lines etc.

The symposium devoted half a day to the interesting session of student paper contests- undergraduate and Postgraduate. It was pleasure to interact with enthusiastic students from various colleges and to get a peek at their research as exposed in their paper presentations. A total of 43 papers were presented during the symposium. The convenor for the symposium was R.K.Hegde of CPRI and proceedings were organized by Shri M.M. Babunaryanan of CPRI.



## TECHNICAL ACTIVITIES

During the last quarter of 2006 the following technical/professional activities were carried out.

A full day tutorial was conducted on the 4<sup>th</sup> Nov 4, 2006. This lecture by : Prof. Lawrence Jenkins, IISc on "Real time and embedded systems" at the Golden Jubilee Seminar Hall, IISc.

A second full day tutorial on "Fiber Optic communication Systems" was conducted on the 30<sup>th</sup> Dec 2006 at the Swayambu Hall, CPRI. The tutorial was delivered by two Speakers: Prof. Rajappa Papannareddy, Purdue University and Dr. T. Srinivas, IISc.

Distinguished lecture by Dr. MICHAEL ROSEMANN, Professor for Information Systems, Business Process Management Group, Queensland University of Technology, Australia. The lecture topic was "BUSINESS PROCESS MANAGEMENT – HYPE AND REALITY" was conducted on the 24th November 2006 at The Chancery Hotel, Bangalore.

## STUDENT ACTIVITIES

Student Branch at Gousia Engineering College, Ramnagar was inaugurated on the 15th of October. Mr.A. Ravikiran, Student Activities Chair and Dr.T. Srinivas attended the function.

Inaugural function of the Student Branch at Canara Engineering College, Mangalore was conducted on the 11th of November 2006. Dr. T. Srinivas, attended the function and delivered a lecture on "Optical Networks"

Student Leadership Workshop was conducted on the 11th and 12th November 2006 at BVB Engineering College at Bagalkot. Office bearers from 9 student branches participated in the event.

## BRV VARDAN UNDERGRADUATE PAPER CONTEST

### FIRST PRIZE

Prabha R.Kumar, BIT for his paper on "Signal conditioning of MEMS sensors"

### SECOND PRIZE

Navin Harwalkar, Pushkar G S, RVCE for the paper on "Physical Layer Aware Routing For Wireless Sensor Networks"

*"Reconstruction Algorithms For Non-Cartesian Data : Their Implementation, Comparison And Analysis" – a paper by Mr. Rakesh.S.Anigundi and Pramod P S of RV College of Engineering.*

## POSTGRADUATE STUDENT PAPER CONTEST

### FIRST PRIZE

Ayon Roy,IISc "Dimensional Photonic Band Gap based Microwave Resonator at 10 GHz in Micro strip Technology.

### SECOND PRIZE

"Power System State Estimation Based On Sequential Linear Programming Using Modified Upper Bound Optimization Technique" paper by M. S. S Phaniram, IISc

## REPORT ON INTERNATIONAL SYMPOSIUM ON MICROWAVES (ISM 06)

The second International Symposium on Microwaves (ISM 06) was conducted between 15<sup>th</sup> and 17<sup>th</sup> December 2006 at the Nimhans Convention Centre, Bangalore. Pre symposium tutorials were conducted on the 15<sup>th</sup> December on cutting edge technologies in the field of microwaves. Dr. Stavros Eizekeil of University of Cyprus conducted a Tutorial on "Millimeter Wave and Fibre RADIO Applications" followed by a tutorial on "Application of MEMS in Microwaves Products" by Prof. Shibani Koul of IIG Delhi. The full day tutorial on "Microwave School" was conducted by eminent professors and professionals from various institutions and R&D organizations was an added attraction. This tutorial was organized for the benefit of student community and as a fresher for the professionals. The Symposium was formally inaugurated by Dr. K. N. Shankara, Director, ISRO Satellite Centre inaugurated the Symposium on the 15<sup>th</sup> Dec 2006. A Souvenir was released



during the occasion . Prof. N. Balakrishnan, IISc, Bangalore delivered the key-note address. Technical presentations were made in three parallel sessions on the 16<sup>th</sup> and 17<sup>th</sup> December and about 125 high quality papers were covered during the two days of symposium. Each session had a invited talk by leading expert in the field and eminent personalities were Chairing the sessions. On 16<sup>th</sup> night a cultural program was organised which was followed by symposium dinner. There

was also an indoor exhibition in which many Indian and foreign companies, R&D Organisations, PSU's had displayed their products. Thanks to the magnanimity of 6 sponsoring organizations the registration fee was kept at a very nominal level. Under Dr.S.Christopher, Director, CABS as the Symposium Chair, Mr. H.Ramakrishna as the Technical Committee Chair and with Mr.A.K. Tripathy as the General Chair, the event was a grand success. ●

# **AGM NOTICE**

V.V. Srinivasan,  
Secretary, IEEE Bangalore Section

January 2007

Dear Member:

On behalf of the Section, Warm Greetings for a Happy and Prosperous New Year !

This communication is to inform the slate for the Executive Committee for the year 2007 and also call for the Annual General Body Meeting of the Section at which the Executive Committee and the Office Bearers for the year 2007 will be elected.

Annual General Body Meeting

The AGM is scheduled to be held on Sunday, 18<sup>th</sup> February 2007 at Ball Room, Hotel Taj Westend, Racecourse Road, Bangalore at 10:00 AM.

The IEEE Bangalore Section continues to be active with major events like conferences, symposium, tutorials and workshops conducted on cutting edge technologies covering wide spectrum of fields. The

AGM meet is the chance to meet your peers and seniors, interact with them, enrich your professional lives and promote your career interests. Enhance your understanding of the Section, its activities, and how it is run. Meet the members who are going to be the office bearers for the year 2007. Offer your valuable suggestions - and your services too - so that the Section is better aware of your needs and can serve to the aspirations of the current membership. Members are encourage to bring their spouse for this AGM and the lunch that follows it. Kindly make a note of the date in your calendar and we look forward to your attending and active participation at the AGM.

Since arrangements are to be made for lunch and memento you are requested to communicate your participation (with/without spouse) This will help us to arrange the event in a much better way. Your cooperation in this regard is highly solicited.

## **IEEE BANGALORE SECTION ELECTIONS TO THE EXECUTIVE COMMITTEE FOR 2006**

Dear Member:

The Nominations Committee this year with Dr.S.Pal as Chairman and Prof. Lawrence Jenkins and Dr.P.V. Ananda Mohan has proposed the following Slate for the Executive Committee (EXECOM) of the IEEE Bangalore Section for the year 2007:

1. Shri. A.K. Tripathy, DG, CPRI	Chairman
2. Shri. K. Ramakrishna, POWERGRID	Vice-Chair
3. Wg.Cdr. H.R. Parthasarathy, Ex-CDOT	Vice-Chair
4. Shri. R. K. Hegde, CPRI	Treasurer
5. Shri. V.V. Srinivasan, ISRO	Secretary
6. Prof. Anurag Kumar, IISc	Member
7. Shri. Hitesh Mehta, M/s. Eagle Photonics	Member
8. Shri. A. Ravi Kiran, M/s. SIEMENS	Member
9. Shri. H. Ramakrishna, Ex-CRL	Member
10. Dr. T. Srinivas, IISc	Member
11. Prof.K.J. Vinoy, IISc	Member
12. Shri. M. M. Babunarayan, CPRI	Member
13. Prof. K. Jayaraman	Member

As per Bye-laws, the Section nominations of Office Bearers by petition are also welcome. Any such nominations should be duly signed by at least 15 active members and received by me on or before 14<sup>th</sup> February 2007. Elections will be conducted by due process as during the AGM.

Annual General Body Meeting

The AGM of the Section for the year 2006 will be held on Sunday, 18<sup>th</sup> February 2007 at Ball Room, Hotel Taj Westend, Racecourse Road, Bangalore at 10:00 AM.

### **AGENDA**

- Welcome
- Approval of the Minutes of Previous AGM
- Presentation of the 2006 Activities Report
- Presentation of the 2006 Financial Report
- Reports of Society Chapters and GOLD group
- Report on Student branches
- BRV Vardan Student Paper Prize Awards
- Felicitation of Elevated Senior Members
- Awards Presentation
- Slate Presentation
- Election to Executive Committee for 2007
- Address by New Chairman
- Presentation of the new EXECOM
- Any other items
- Vote of Thanks

If you wish to have any item included in the agenda the same may be communication to me on or before 14<sup>th</sup> February 2007.

The AGM will be followed by lunch. You are cordially invited to bring your spouse to the AGM and the lunch. Please make it convenient to attend the AGM. Request you to please confirm your attendance by e-mail or fax to me (indicate 'with spouse' if applicable).

Best Wishes for a Happy and Prosperous New Year !!

Jan. 2007

V.V. Srinivasan  
Secretary, IEEE Bangalore Section  
Ph.: 2508 3787  
e-mail: vvs@isac.gov.in

## CHAIRMAN'S MESSAGE

The Executive Committee of IEEE Bangalore Section joins me in wishing all IEEE members of the Section a very Happy New Year 2007.

I wish to thank all Executive Committee members for the whole hearted support they have rendered to make 2006 a successful year.

The memorable event of the year was the visit of IEEE International President Dr.Mike Lightner to Bangalore Section on 27-28 April 2006. The IEEE members and student members had a good interaction with the President. The President addressed scientists at CPRI and IISc.

The IEEE got an office for itself at the premises of Centre for Collaborative & Advanced Research, CPRI and is now functioning from this office.

A two-day workshop on CDMA Technology was organized successfully. It was largely attended by students and response was overwhelming. In December 2006, we had the International Seminar on Microwaves(ISM)-2006 which included an Exhibition and a Tutorial. The event was a grand success.

The annual symposium of IEEE was organized successfully at CPRI's Silver Jubilee Auditorium on 24<sup>th</sup> and 25<sup>th</sup> November, 06. The subject was Technological Advances and IT Application for Indian Power System. The response to the BRV Vardhan paper contest was very good.

GE & IEEE organized an Indian energy symposium on 2<sup>nd</sup> March, 06 which was well attended.

In 2006, several IEEE Students units of various institutes had their technical fete and several student branches were opened. IEEE Headquarters extended full support.

I am happy that three tutorials were held which were well attended. Our Vice-Chairman Shri

K. Ramakrishna attended INDICON-2006 at Delhi and Region 10 meeting at Chiangmai, Thailand.

The year 2007 will be a year of challenges. We have INDICON-2007 lined up in September, 07 and also COMSWARE 2007. We shall endeavour to enroll more students and see that memberships are also upgraded.

In 2007, there is plan to open the Power Engineering Society Chapter and I need the support from the Power System fraternity of Bangalore.

Wishing you again a very Happy New Year.

A. K. Tripathy  
Section Chair-IEEE  
Bangalore Section

## SECTION MEMBERSHIP

Current IEEE Grade Code	Current IEEE Grade Description	Number of Members
A	Associate Member	102
AF	Affiliate	43
F	Fellow	6
LF	Life Fellow	1
LM	Life Member	3
LS	Life Senior	14
M	Member	1196
S	Student	1785
SM	Senior Member	150
	Total	3300

### FOR PRIVATE CIRCULATION

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Editor : Hitesh Mehta  
Mobile : 93412 63396  
E-mail : hmehta@ieee.org