

### **MESSAGE FROM THE SECTION CHAIRMAN PROF. SIVAJI CHAKRAVORTI**



At the outset, I convey my sincere thanks to all the members of IEEE Calcutta Section for reposing faith on my leadership by electing me as the Chairman of IEEE Calcutta Section for 2011. I hereby state with emphasis that I will do my level best to make IEEE Calcutta Section a happening Section in 2011. Please join me to welcome the Executive Committee of the section for 2011.

Rephrasing an old saying, I would like to state here that it takes seven touches to turn a prospective member into an IEEE member. The importance of the section newsletter should be gauged in this context. A good newsletter can i) secure the loyalty of existing members – and remind them about the full range of services that are being offered, ii) win the confidence and interest of potential new members who may have paid only a few visits to the website and iii) make it easy for existing members to pass referrals to people they know who are likely to be interested to become member.

With the above in view, our section intends to bring out the section newsletter quarterly. It will be circulated to all the section members electronically using the IEEE Listserv utility. For this purpose, it is necessary that our section members keep their email addresses current and up-to-date at the IEEE database. I request every member of our section to create IEEE account and log in to IEEE account from time to time to see that their profile information are up-to-date. This will help us to reach out to all the section members efficiently in this cyber age.

Please come forward and take part in all the section activities, the information about which can be had from our website. If you have any new idea for increasing the visibility of the section, please let us know. The section can only grow further with active participation of its members.

In the end, I take this opportunity to convey the appreciation of the services rendered by Prof. Kalyan K Mallik, immediate Past Chairman of the section, on behalf of the section members in general and section executive committee in particular. I am sure he will deliver more goods to IEEE activities as the Vice-Chairman (Student Activities) of IEEE India Council in 2011.

With fraternal greetings,

Sivaji Chakravorti

Date: May 24, 2011



### SECRETARY SPEAKS

**Sanjay Kar Chowdhury**

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The 2<sup>nd</sup>. Issue of E-Monitor is being published with a message from the new Chairman Prof. Sivaji Chakravorti, who has taken over the reins of Calcutta Section effective January'11. This year Calcutta Section steps into 33<sup>rd</sup>. Year of existence and following successful organization of INDICON-2010, we have ventured into yet another flagship program of Calcutta Section – CALCON-2011.

Over the years, our current website became a bit outdated and a burning need was felt for a new look section website which will contain all current information regarding section operation, activities, membership development and so on. Please visit our new look website at [//ewh.ieee.org/r10/cal](http://ewh.ieee.org/r10/cal) and give us your valued suggestion.

I would urge upon the members to send in their comments for improvement both in contents & look without hesitation to the undersigned. We shall work upon further, based on your feedback to make the E-MONITOR more lively and interesting.

Lastly I wish all the members and their family a good health.

With greetings,  
Sanjay Kar Chowdhury.

## SECTION EXECUTIVE COMMITTEE

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## Chapter Activities

### APMTT

#### International Events/Seminar/Tutorial/Meeting: January-April, 2011

January 6, 2011, "Some examples from data acquisition, processing, and transmission systems in Well-Logging Industry", Dr. J. C. Goswami, *Schlumberger, U.S.A.*

January 25, 2011, "High Power Microwave Devices: Challenges and Opportunities for Young Engineers in India" Dr. S. N. Joshi, *CEERI-Pilani, Rajasthan, India*

### Outreach Program at NIT Durgapur

An Outreach Program of the chapter was organized at ECE Department of National Institute of Technology Durgapur, about 192 km. away from the city of Kolkata that is the main office of the chapter. The program was in the form of One day Seminar addressing Antenna Technology and EMI issues. Prof. D. R. Poddar, *Jadavpur University* and Prof. D. Guha, *University of Calcutta* were the primary speakers. This event was aimed to encourage the faculty and students of this department. This chapter has got four new members this year from this department. Chapter Chair addressed the audience and met the IEEE members separately to discuss the possibilities of organizing some events in the industry city of Durgapur in the near future. The lunch was sponsored by Jyoti Electronics., *Ahmedabad* and Pinnacle Infotech. Pvt. Ltd, *Durgapur*. This program was attended by 49 numbers of participants out of which 8 IEEE members and 41 students were present.

### Lecture Meeting addressed by AP-S President

IEEE AP-S president Prof. Magdalena Salazar Palma addressed an audience on March 10, 2011 at the Department of Electronics and Communication Engineering, Bengal Engineering and Science University (BESU), Shibpur, one of the premier Engineering Institutes of Asia. This lecture meeting was jointly organized by IEEE AP-MTT Calcutta Chapter and ECE Dept., BESU. This meeting was attended by 21 IEEE members and More than 50 young researchers, students and faculty members. Prof. Salazar inspired the audience to join IEEE and invited the students to form student branch. In her technical talk, she addressed "A History/Chronology of Broadcasting". The concluding speaker of the meeting was Prof. T. K. Sarkar of Syracuse University. He talked on "RFID Standards". Both the technical talks were highly appreciated by the audience. The meeting was followed by a Banquet Dinner in a floating restaurant on river Ganges.



**Prof. Magdalena Salazar Palma**

### Photonics



**Tech Lecture: April, 04, 2011**

**Venue:** Institute of Radio Physics & Electronics

**Topic:** Preliminary aspects in the Modeling of Light Emitting and Laser Diodes

**Speaker:** Jayanta Sarma (UK)

### Celebration of Indian National Science Day: March 11, 2011

**Venue:** (Inauguration) Meghnad Saha Auditorium (University College of Sc. & Tech. , C.U.)

(Demonstration) Institute of Radio Physics & Electronics

**Joint Organiser:** Calcutta University Student Branch

#### About the Event:

Celebrating National Science Day has become a yearly event (and integral part) of IPS Calcutta Chapter. School/College (newly selected each year) children are invited. Students' participation in the event is Free. The importance of studying Science and the role of students in community are explained. Basic Demos for hands-on experience of students on Science topics are arranged. This year Demos were mainly based on the basic Sciences the students learn in books/schools. Or, these basic models would **help students learning Science faster**. The students and Research scholars of Radio Physics and Electronics and IEEE CUSB Branch mainly take part in the demonstration of Models. Some example demos are :

Convection of Heat, Properties of light (pinhole camera, reflection, refraction, optical illusion...), Electricity (Ohm's law , Quiz Circuit, Rain Alarm), Electromagnetism: Faraday's Law Automatic Pump, Chemistry (Vanishing colour, Science versus Superstion), CRT-Showing electrodes and circuits inside, LED and LCD, Laser, Optical Fiber and Voice link.

**Participating Schools (2011):** (Classes IX & X)

- Salt Lake School, Kolkata

- Loreto Day School Sealdah, Kolkata

**No. of participants (approx.):**

School students & their teachers: 97

Others: 55



## CIS

### **A report on the activities of the Calcutta Chapter, IEEE Computational Intelligence Society**

The Calcutta Chapter of the IEEE Computational Intelligence Society has been approved by the IEEE on October 13, 2010. I take this opportunity to express my sincere thanks to the officers of the IEEE CIS and of the Calcutta Section for their great support in the formation of this Chapter.

Although, this is a very young chapter with few members, with their active support so far we have been able to organize two technical meetings. The first one was a technical seminar held on February 9, 2011 in Jadavpur University. In this seminar Prof. Roberto Barogona of the University of Rome, Italy gave an interesting presentation on "Structural Breaks in Time Series". In his presentation, he highlighted the importance of structural breaks in share-market time-series and explained the significance of evolutionary algorithms to handle the problem. The seminar was attended by several distinguished researchers and students from different parts of the city of joy.

The second event was a one-day workshop on "Computational Intelligence in Brain-Computer Interface and Context-Aware Service Management", March 14, 2011. This event was organized jointly by the Calcutta Chapter of IEEE CIS and Indian Statistical Institute, Calcutta. Two distinguished researchers, Prof. Chin-Teng Lin, Fellow IEEE, Director, Brain Research Center, National Chiao-Tung University, Taiwan and Prof. Amit Konar, Center for Excellence in Cognitive Science, Jadavpur University elucidated the recent advances in brain computer interface (BCI) along with various issues that demand attention from

researchers. In particular, Prof. Lin stressed the needs of understanding driving cognition using BCI, while Prof. Konar narrated on the control aspects of BCI for neuro-prosthetic applications. To make it self-contained the workshop started with an introduction to computational intelligence. The workshop was attended by more than eighty participants including students, researchers, and professors from different universities and colleges



Prof. Amit Konar,  
Center for Excellence in Cognitive  
Science,  
Jadavpur University,

## COMPUTER

A lecture meeting on "A sneak-peek at Data-Driven Products, Infrastructure and Technologies at LinkedIn" was held on Friday, May 06, 2011 at 3:30 pm in A. Dey Memorial Seminar Hall, Department of Computer Science & Engineering, Jadavpur University. The lecture was delivered by Dr. Bhaskar Ghosh of LinkedIn, USA, and organised by the Computer Chapter, IEEE Calcutta Section in collaboration with Dept. of C.S.E., Jadavpur University. The lecture was well attended by persons from academia including students, research fellows and faculties as well as from industries. The lecture generated great interest in the audience

## IAS

**Following are the activities of the IEEE Industry Applications Calcutta Chapter in the first quarter of 2011:**

Organized one technical lecture meeting on February 1, 2011 in the seminar room of the Department of Electrical Engineering, Bengal Engineering and Science University, Shibpur. The lecture was on "Natural Harmonic Elimination of Square-Wave Inverter for Medium-Voltage Application", delivered by Dr. Gautam Poddar, Associate Professor, Indian Institute of Technology, Kharagpur. It was attended by 34 persons (8 IEEE members) including students, teachers and researchers and industry personnel also.



Organized a short term training course on 'Power Electronics Applications in Industry' JOINTLY with the Department of Electrical Engineering, Bengal Engineering & Science University (B.E.S.U), Shibpur, Howrah, India-711103 during February 4-6, 2011. The course included lecture sessions and hands on demonstration sessions including experimentation and simulations. The lecture sessions were mostly delivered by the teaching faculties of B.E.S.U and also by an invited speaker, who is associated with Research & Development in a reputed industry house of the Kolkata city in the field of power supplies. The feedback received from the participants appears extremely encouraging

**PES**

### Report of the IEEE Power & Energy Chapter, Kolkata

#### Seminar:

A National Seminar on "Industrial Communication – Recent Trends" was organized by Dept. of Applied Physics, University of Calcutta in association with IEEE Power & Energy, Kolkata Chapter and IET, Kolkata Network on 19<sup>th</sup> February, 2011 at the Meghnad Saha Auditorium, Rashbehari Siksapranagan



#### Educational Activity:

IEEE PE Kolkata Chapter was the technical sponsor for the National Conference on "Modeling and Experimental Techniques in Electrical Engineering" organized by Department of Electrical Engineering, Birbhum Institute of Engineering and Technology Suri, Birbhum, West Bengal, from 5<sup>th</sup>-6<sup>th</sup> February, 2011 at the BIET, Suri



## Report from Bhubaneswar

### ACTIVITIES OF IEEE STUDENT BRANCH- SILICON INSTITUTE OF TECHNOLOGY BHUBANESWAR

#### IEEE TECH QUIZZARD - THE INTRA COLLEGE TECHNICAL QUIZ

The IEEE Student chapter of Silicon Institute of Technology, Bhubaneswar, conducted an intra college technical quiz. The quiz was held in two rounds. Round 1 was a written prelims round which was held on 22<sup>nd</sup> Feb 2011. The participation of the students was very inspiring with more than 85 teams (consisting of two members per team) appearing in the preliminary round. Nine teams were selected for the final round. The final round was held on 16<sup>th</sup> of March. The event was judged and presided by distinguished faculties of the college who encouraged the students. The event was a success and the student chapter at Silicon Institute looks forward to conducting such events in future on larger scale.



Winners of Intra  
College Technical  
Quiz

## Awards & Accolades

PES & IAS Chapters have won the High Performance Chapter Awards for 2010.

PES has won the 3<sup>rd</sup>. position in Membership growth Contest for 2010.

## CAS- Information

The Circuits and Systems Chapter (CAS) of IEEE Calcutta Section is trying very hard to reorient its activities in multidirectional manner apart from the conventional ones. The Chapter has been considered by the Section as its collaborator to organize the triennial event, CALCON 11, to be held during November 4-5, 2011 at Jadavpur University. The Chapter has proposed to the CAS Society of IEEE, USA to organize special Educational Programs for the enrichment of the knowledge in Electronic Circuit Design among the student community in the discipline of Electronics and Telecommunication Engineering and a special funding to the tune of \$ 2,000.00 has already been sanctioned for this purpose. The Chapter is also actively considering the organization of a Circuit Design Contest followed by Student Paper Contest in November 2011 in association with the IEEE Student Branch, Jadavpur University for the encouragement towards the hardware circuit design by the student community

### 2011 Executive Committee for the CAS Chapter of the Section

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### In Lighter Vein

# HUMOUR!



To all our colleagues  
who Exercise  
and of course  
those who don't.....



If walking is good for your health,  
the postman would be immortal.



A whale swims all day, only eats fish,  
drinks water and is fat.

A rabbit runs and hops and only lives 15 years.



A turtle doesn't run, does nothing... yet lives  
for 450 years.

**TO HELL WITH EXERCISE ! SLEEP Well EAT Well !**

### Answer to last edition's quiz

1. 116;
2. Ecuador;
3. Sheep & Horses;
4. November;
5. Squirrel Fur;
6. Dog;
7. Albert
8. Crimson;
9. New Zealand;
10. Orange .

**NOTE: For publication of activities of chapters under Calcutta Section in the next edition of E-Monitor, Chapter Chairs & Secretaries are requested to send in their material by 15<sup>th</sup>. July, 2011 to Prof. Salil K. Sanyal, Newsletter Editor (email id. [s\\_sanyal@ieee.org](mailto:s_sanyal@ieee.org)).**