PART A - SECTION SUMMARY

A.1 Executive Summary

✓ INDICON-2010 organised jointly with IEEE India Council from 17th. To 19th. December, 2010 at Jadavpur University Campus.

✓ **Mini-colloquium**: EDS Chapter organised a series of 5 mini colloquiums between 29th. March to 9th. April, 2010 jointly with a) Siliguri Institute of Technology, Siliguri, b) IIT, Guwahati, c) North Eastern Hill University, Shillong, d) NIT, Silchar & e) Heritage Institute of Technology, Kolkata.

✓ IAS chapter received ‘Outstanding Small Chapter’ Award for 2009 from the IEEE IAS headquarters.

✓ IAS Chapter organized short term training courses on Power Electronics jointly with Department of Electrical Engineering, BESU.

✓ PES Chapter received ‘Outstanding Small Chapter’ Award for 2009 from IEEE PES headquarters.

✓ PES Chapter bagged High Performance Chapter Award (HPCA) for tenth time in a row

✓ PES Chapter was the technical sponsor for ‘International Conference on Future Power and Energy Engineering’ organized by Shenzen University, China from 26th. To 27th. June, 2010.

✓ PES Chapter organized a one week workshop on ‘LabVIEW™ and PIC Microcontroller Applications’ from 28th. To 3rd. July, 2010 at Jadavpur University, Kolkata.

✓ Mr. S. Sankaralingam, who has made a mark as a volunteer during INDICON-2010 has been nominated for felicitation for advancing the cause of IEEE in Kolkata. He has been awarded a plaque during the AGM.

✓ New Chapter ‘Computational Intelligence Society’ formed in the last quarter of 2010.

Photonics(formerly LEOS) chapter organized 3 Week long Summer School on PhotoSMART from 1st. to 18th. June, 2010.

Computer Chapter organized a 3-day workshop on ‘Mobile Computing’ jointly with MCKV Institute of Technology & School of Mobile Computing & Comunication, Jadavpur University.

CAS Chapter organized CASEDCOM-2010 jointly with EDS Chapter & ComSoc Chapter.

CAS Chapter organized CASCOM – Post Graduate Students’ Paper Conference-2010 jointly with ComSoc Chapter.

Calcutta Section has registered a membership growth of 7%.

Two new student branches opened at Bengal Institute of Technology & Management, Santiniketan and at Calcutta Institute of Engineering & Management, Kolkata.

Students’ Tech Fest by NIT Rourkela and ISM Dhanbad Branches.


WIE AG organized two day conference on ‘Microwave & Communiaction’ jointly with CoMSoc Calcutta at BIET, Suri on 19th. & 20th. February, 2010.

A joint meeting of WIE & GOLD AGs were held on the wings of INDICON-2010 on 17th. December, 2010 at J.U. Campus.

Annual Social was organized on 7th. March, 2010 at Nirala Resort, Deulti.

**A.2 Financial Report**

Opening Balance: **Rs. 20,30,268.34**

Income: Rs. 28,75,637.10

Expenses: Rs. 23,68,896.23

Closing Balance: **Rs. 25,37,009.21**

**A.3 List of Section Officer and Executive Committee Members**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Kalyan K Mallik</td>
<td>Chair</td>
</tr>
<tr>
<td>Prof. Debasish Saha</td>
<td>Vice-Chair</td>
</tr>
<tr>
<td>Prof. Chandan Kumar Sarkar</td>
<td>Vice-Chair &amp; Chair EDS Chapter</td>
</tr>
<tr>
<td>Mr. Sanjay Kar Chowdhury</td>
<td>Secretary &amp; Chair Membership Development</td>
</tr>
<tr>
<td>Dr.(Mrs) Iti Saha Misra</td>
<td>Treasurer</td>
</tr>
<tr>
<td>Prof. Salil Kumar Sanyal</td>
<td>Immediate Past Chair</td>
</tr>
<tr>
<td>Prof. Rabindranath Nandi</td>
<td>Member &amp; Chair CAS Chapter</td>
</tr>
<tr>
<td>Mr. Kalyan Kumar Das Gupta</td>
<td>Member</td>
</tr>
<tr>
<td>Prof. Dipak Kumar Basu</td>
<td>Member</td>
</tr>
<tr>
<td>Prof. Rana Dattagupta</td>
<td>Member</td>
</tr>
</tbody>
</table>
**B.1 Membership Development Programs**

**Total Member: 1564**

- **Effort in Membership Development:** Recognising efforts of members in rendering services as a dedicated volunteer, recruiting new members as well as retention of existing members by awarding citations & personalized plaques. This Year Calcutta Section has recognised the efforts made by a member by awarding a personalized plaque. The award was given to Mr. Sankaralingam S.

- In the current year Calcutta Section has instituted two awards as a part of membership development program. The awards will be given in the following category: a) Chapter with highest membership growth & b) Chapter with highest percentage of member from industry. This year the recipient chapters are a) PES & b) Computer Society. The current Chapter Chairs will be given the award.

- Calcutta Section has registered 7% rise in membership-up from 1465 to 1564 in 2010.

- PES Chapter has awarded Mr. Dipankar Sengupta a very senior member from the industry, a personalized plaque recognizing his efforts for growth & sustenance of the chapter.

- PES Chapter has conferred upon one of its active senior members the title of ‘Outstanding Chapter Engineer’ for the year 2010. The award was given to Prof. Suparna Kar Chowdhury.

- PES has recommended elevation of two of its members to Senior Member grade. Both the members have been duly elevated.

- IAS Chapter has recommended elevation of one of its members to Senior Members grade. The member has been duly elevated.
Photonics Chapter has recommended elevation of two of its members to Senior Member grade. Both the members have been duly elevated.

PES has reported 33% whereas Photonics chapter has reported about 8% rise in membership in the year 2010.

**Evidence of retention of members:** Each default member is contacted through email / mobile phone and persuaded to renew his / her membership. Attrition rate has come down corresponding to last year.

### B.2 Professional and Continuing Education Activities

Continuing Educational activities including conferences, technical event, training courses:

#### Technical Lecture Meetings organized by the Section

IEEE Calcutta Section has organized the following lecture meetings in various fields in the year 2010. The lectures were well attended and organized at various institutes with very good interactions among the members of industry and academia including students.

#### a. Technical Lecture

<table>
<thead>
<tr>
<th>Sl.</th>
<th>Speaker &amp; Affiliation</th>
<th>Topic</th>
<th>Venue</th>
<th>Attd.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Prof. Ashoke Kr. Barua, Emeritus Professor, Indian Association for Cultivation of Science</td>
<td>‘Climate Changes &amp; role of Green Energy’</td>
<td>Gandhi Bhavan, Jadavpur University</td>
<td>102</td>
<td>17th. December, 2010</td>
</tr>
<tr>
<td>6</td>
<td>Prof. Partha Pratim Chakrabarti, Professor, IIT Kharagpur.</td>
<td>Design Verification of Hardware &amp; Embedded Systems: Challenges &amp; Trends</td>
<td>Gandhi Bhavan, Jadavpur University</td>
<td>88</td>
<td>18th. December, 2010</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Sudhir Dixit, Scientist HP Lab., Bangalore</td>
<td>Simplified User Interaction Accelerated ICT Adoption</td>
<td>Gandhi Bhavan, Jadavpur University</td>
<td>89</td>
<td>18th. December, 2010</td>
</tr>
<tr>
<td>8</td>
<td>Prof. V. Ramgopal Rao, Professor, IIT Bombay</td>
<td>Convergence of Bio-Nano Information Technologies in more</td>
<td>TEQIP Building, Jadavpur</td>
<td>90</td>
<td>18th. December, 2010</td>
</tr>
</tbody>
</table>
b) Technical Co-Sponsorship

IEEE Calcutta Section extended technical Co-Sponsorships to the following conferences falling under the jurisdiction of Calcutta Section.

- NIT Rourkela from 27th. to 29th. December, 2010
- National Conference on Future Trends in Information & Communication Technology & Applications organized by Silicon Institute of Technology, Bhubaneswar from 10th. to 11th. September, 2011
- International Conference on Energy, Automation & Control organized by Siksha O Anusandhan University, Odisha in December, 2011.

OUTREACH ACTIVITIES

EDS Chapter organized one-day mini-colloquia at the following locations as a part of its outreach activities during the period 29th. March to 9th. April, 2010:

a) Siliguri Institute of Technology, Siliguri
b) IIT, Guwahati
c) North Eastern Hill University, Shillong.
d) NIT, Silchar.

The objective of these mini-colloquiums was to expose the academia to the recent developments in the area of nano-electronics. The program was attended by nearly 100 participants in each of these institutes.

EDS chapter also organized a mini-colloquium at Bhubaneswar & Berhampore on 29th. & 30th. December, 2010 jointly with EDS chapter Bhubaneswar & EDS chapter NIST Berhampore.

Power & Energy Chapter was the technical sponsor for ‘ICFPEE 2010: International Conference on Future Power & Energy Engineering’ organized by Shenzen University, China, on 26th. & 27th. June, 2010. Prof. Sivaji Chakravorti delivered the Keynote address.
Power & Energy Chapter organized a technical lecture session on 'Leveraging OPC for Dovetailing PLC Communication’ at BIT Mesra Ranchi on 21st August, 2010. Mr. Somnath Mitra AGM of SAIL Ranchi, deliberated on the subject. 95 participants participated in the lecture meet.

APMTT Chapter organized ‘India Antenna Week’ – a workshop on ‘Advanced Antenna Technology’ at Mayfair Beach Resort, Puri, Odisha, during the period 31st May to 4th June, 2010. The programme was organized in association with Institute of Radio Physics & Electronics, Calcutta University.

The week long residential workshop was aimed to give exposure to the young antenna researchers / scientists to the advanced state of the art technology. The workshop was attended by 55 delegates out of which 40 were below 35 years of age. Notable participants included senior scientists from ISRO & DRDO. The entire programme was technically & financially supported by IEEE AP Society.

Photonics Chapter organized a programme on Science & Technology for students of MCKV School, Liluah. The programme was held on 9th April, 2010. at MCKV School. The students were exposed to the basics of Lasers, display devices, infra-red laser of remote controls of TVs. Models were demonstrated before the students.

WIE organized a national conference on ‘Microwave & Communication NCMicroCom-2010’ at Birbhum Institute of Technology, Suri, Birbhum, West Bengal on 19th & 20th February, 2010. The programme was jointly organized in association with Calcutta Section & ComSoc Chapter. 147 participants took part in the two day conference.

As a part of CSR, IEEE Calcutta Section organised a one-day program at Birla Industrial & Technological Museum, Kolkata for under privileged children of Pratyush, Barasat. WIE AG, Calcutta was the lead partner in this noble venture.

**NATIONAL CONFERENCE: INDICON-2010**

Calcutta Section organized INDICON-2010 the flagship conference of IEEE India Council. The entire program was arranged within the campus of Jadavpur University with support from BESU, WBU, Tata Consultancy Services. The conference was held on three days from 17th to 19th December, 2010. The conference was inaugurated by Prof. Debesh Das, Hon’ble minister in charge of IT, Govt. of West Bengal. Section Chair Prof. K.K. Mallik delivered the welcome address. On the Inaugural day, keynote lecture was delivered by Prof. Ashok Barua, Emeritus Professor BESU & former Director, IACS. On day 2, three lectures were delivered in Plenary session. Lectures were delivered by notable speakers like Prof. Partha Pratim Chakraborti of IIT Kharagpur, who spoke on ‘Design Verification of Hardware & Embedded Systems: Challenges & Trends; Dr. Sudhir Dixit of HP Lab, Bangalore spoke on ‘Simplified User Interaction Accelerated ICT Adoption’; while Prof. Venugopal Rao of IIT Bombay spoke on ‘Convergence of Bio-Nano Information Technologies in more than Moore Era’.

Approximately 440 technical papers were received, out of which 204 papers were selected after scrutiny. Conference was organized on three tracks viz. Computation, Communication and Power & Energy. Invited Lectures on three tracks were delivered by Dr. Ranabir Bose of Fujitsu Network Communication, Texas; Prof. Sanghamitra Bandypadhyay of ISI, Calcutta and Prof. Sudip Mazumdar of University of Illinois, Chicago. On the conference day six parallel sessions were held in tracks I & II while 5 parallel sessions were held in track III.

**B.3 Students Activities**

**Number of Active Student Branches: 18**
Number of Student Branches Formed in the Year: 02
Total Active Student Member: 658
Total Active Graduate Student Member: 141

- **Active Student Branches activity**
  - NIT Rourkela Branch Organised Students’ Tech Fest.
  - ISM Dhanbad Branch organized Students’ Tech Fest with participation from Industry & Academia.
  - NIT Jamshedpur Student Branch organized CIBOLA -2010 – a multi round Technical Quiz contest with number of participants exceeding 400.
  - NIT Jamshedpur Student Branch organized monthly seminars on MATLAB programming and CDMA on MATLAB during September & October, 2010. More than 300 participants took part in the weekly event.
  - NIT Jamshedpur Student Branch organized Seminar on ‘Mobile Controlled Robotics’ for the 1st & 2nd Year Students on 22nd. December, 2010
  - NIT Durgapur Student Branch organized a workshop on LABVIEW spread over a period of two months and in batches of 20 students. Classes were held every Friday. Dr. C. Koley acted as the instructor in the workshop.
  - NIT Durgapur Student Branch in collaboration with CCA NIT Durgapur organized AAROHAN-2010, the annual techno-management fest of NIT Durgapur.

- **Recruitment of student members**
  Students from all branches have been recruited as Student Member all over the year. Present strength of Student Member stands at 658

- **Lecture Meet:**
  - Jadavpur University Branch organized a Lecture meeting on ‘Cell Cycle Phase Identification’ by Prof. K. Palaniappan.
  - Jadavpur University Branch organized MEET-2011, a one day workshop jointly with Computer & ComSoc Chapters on 17th. December, 2011.

- **Formation of New Student Branch**
  - Two new student branches opened at a) Bengal Institute of Technology & Management, Santiniketan b) Calcutta Institute of Engineering & Management, Kolkata.
  - Petition for formation new IEEE Student Branch at IIT Bhubaneswar has been forwarded to the IEEE Headquarters.

**B.4 E-mail and Newsletter Activities, Home Page**

- **Number of hard print Newsletter:** Discontinued
- **Number of electronic Newsletters:** 01 Circulated to all members on 10th. February, 2011. Also posted on Section website

- **Section, Chapters and Student Branches Web Pages:**
The IEEE CALCUTTA SECTION WEBSITE is active with address - www.ewh.ieee.org/r10/calcutta

- Section and some of the Chapters have websites linked mutually. The
- All announcements / activities are uploaded in the website.

B.5 Awards & Accolades:

- PES Chapter received ‘Outstanding Small Chapter’ Award for 2009 from IEEE PES headquarters.
- IAS Chapter received ‘Outstanding Small Chapter’ Award for 2009 from IEEE IAS headquarters
- PES Chapter bagged High Performance Chapter Award for 10th. year in row.
- ComSoc Chapter bagged the Chapter Activity Award for 2009.
- Student Member Mr. Sayantan Dhar received the second best paper award in MV Chauhan PG Paper contest.

B.6 Chapter Activities

Total Active Chapters: 09
One Chapter – Computational Intelligence Society formed in the current year.

Total Affinity Groups: 02

- AP-MTT Chapter organized a one day tutorial on Computational Electromagnetics on 10th. April, 2010 at Society for Applied Microwave Electronics Engineering and Research, Kolkata. Prof. P.K. Saha of IRPE, Calcutta University delivered lecture.
- APMTT chapter organized a One day Seminar on “Ultra wideband Antennas & High Speed Mobile Communication and Some Related Aspects” on November 22, 2010 under IEEE AP-S Distinguished Lecturer Program by IEEE AP-MTT Calcutta Chapter. Prof. Werner Wiesbeck, Institut für Höchstfrequenztechnik und Elektronik, Germany delivered two lectures each of one and half hour duration. In prelaunch session, he talked on ‘Ultra wideband Antennas’ and in post-lunch session, on ‘High Speed Mobile Communication and Some Related Aspects’. In both the lectures, he addressed state of the art technologies and challenges related to ultra-wideband modern communication systems and those were highly appreciated by the audience. More than 100 young researchers and students were present. Heritage Institute of Technology, Kolkata sponsored the venue and food. In the welcome session, Dr. Wiesbeck described the significance of IEEE Distinguished Lecturer Program and inspired the young participants to join IEEE. Four IEEE volunteers viz. Mr. Chinmoy Saha, Mr S. Sankarlingam, Mr. Sujoy Biswas and Mr. Sudhakar Sahu were felicitated by certificate and token gift for their outstanding contributions to successfully organizing Applied Electromagnetics Conference AEMC 2009 and Indian Antenna Week 2010.
- AP-MTT Chapter organized Lecture meetings on
  a) ‘Experience in working with Large Antennas for Deep Space Application’. Mr. Chandrakanta Kumar of ISRO delivered lecture. The lecture meet was held at IRPE, Calcutta University on 13th. April, 2010.
b) ‘Monolithic Microwave Integrated Circuits: Design & Interconnects’ Mr. Arijit Majumdar of SAMEER delivered the lecture. The meet was held at Heritage Institute of Technology on 23rd. September, 2010.

- PES Chapter jointly with Pailan College of Management & Technology, Calcutta organized a two day conference ‘TECHMEET 2010’. Distinguished speakers from Universities & Colleges around Calcutta spoke on various topics. 32 technical papers were presented in the conference which was attended by more than 100 delegates.


- PES arranged a one day tutorial on ‘Data Acquisition and Control in Power System on 17th. February, 2010 at Electrical Engineering Department, J.U. Prof. Sivaji Cakhravorti, Dr. Debangshu Dey & Dr. Biswendo Chatterjee conducted the tutorial sessions.

- PES conducted a week long workshop on ‘LabVIEW and PIC Microcontroller Applications’ from 28th. June to 3rd. July, 2010 at E.E. Deptt. J.U. The programme was designed in two sessions each day with the first session being focused on theoretical classes followed by lab sessions in the second half. 19 delegates took part in the programme.

- PES organized a one day workshop on ‘History of Technology & Technical Education in India: A synthesis’ jointly with INSA on 27th. August 2010 at J.U.

- PES organized Distinguished Lecture Programme on ‘Switching Surges in Power Systems’ on 24th. September, 2010 at J.U. Dr. Herman Dommel PES Distinguished Lecturer & IEEE Life Fellow conducted two sessions on the topic. The first session was on ‘Overview of Computer Simulation Methods for Electromagnetic Transients in Power Systems’ while the second session was on ‘Switching Studies in Power Systems’. The workshop was attended by over 160 participants from academia & industry.


- EDS chapter organized a two day tutorial on ‘Synopsys TCAD: Simulation of CMOS Devices for VLSI Application’ at Heritage Institute of Technology on 3rd. & 4th. June, 2010. The programme was designed for PG Students & Research Scholars in particular.

- The IA Chapter organized two short term training course on ‘Power Electronics’ jointly with Electrical Engineering Department BESU, Shibpur. The first one a 6-day course was held during January, 2010 & second one a 3-day course during July, 2010. Both the training courses were designed keeping in mind the requirements of Teachers, Researchers, professionals, students & practicing engineers. The classes consisted of theoretical as well hands-on laboratory training.

- IAS Chapter organized Technical Lecture sessions on:
  a) ‘Grounding Design and Analysis’ by Dr. Tapan Manna of Burns & McDonnel Engg., USA on 23rd. February, 2010 at BESU. The programme was attended by 32 participants.
b) ‘Recent Trends & Challenges in Condition Monitoring of Transformers’ by Dr. Debangshu Dey of EE deptt. J.U. on 17th, March, 2010 at BESU. The programme was attended by 49 participants.

c) ‘Eccentricity Fault Detection of Induction Motors using Nameplate Parameters’ by Dr. Subhasis Nandi of University of Victoria, Canada on 13th August, 2010 at BESU. The programme was attended by 22 participants.

d) ‘Electrical Power Distribution of a large Thermal Power Plant: Present Trend’ by Jiban K. Choudhury of DCL, Kolkata on 29th. September, 2010 at BESU. The programme was attended by 61 participants.

e) ‘Special DC Power Supplies for Atomic Physics Experiments’ by Dr. Suvarun Dalapati of Stesalit Ltd., Kolkata on 24th. November, 2010 at BESU. The programme was attended by 18 participants.

- COMSOC Chapter, organized a one-day Distinguish Lecture Programme at TCS Kolkata office.
- ComSoc organized jointly with CAS & EDS chapters a one day workshop at Kolkata.

- Computer Chapter organized a three day technical workshop on ‘Mobile Computing’ jointly with MCKV Institute of Technology & School of mobile Computing & communications, J.U, from 8th. To 10th. September, 2010. Around 30 participants attended the workshop. Prof. Sipra Das Bit, Dr. Sarmistha Neogy, Dr. Sarbani Roy, Prof. Nandini Mukherjee, Sm. Chandreyee Chowdhury delivered lectures.

- Computer Chapter organized a one day Seminar on ‘Cloud Computing’ on 13th. December, 2010. Sri. Sunirmal Khatua of C.U. Sri. Joydeep Biswas of KAVO spoke on related topics. The seminar was followed by a Cultural Programme to commemorate 150th. birth anniversary of Kabiguru Rabindranath Tagore. 55 participants took part in the day long programme.

- Computer Chapter organized technical lectures on:
  a) ‘Wireless Communications’ by Prof. Anurag Kumar of IISc Bangalore on 4th. January, 2010 at J.U. The programme was attended by 42 participants.
  
  b) ‘Wireless Sensor Networks’ by Prof. Asis Nasipur of University of North Carolina, USA on 6th. January, 2010 at J.U. The programme was attended by 43 participants.
  
  c) ‘Algorithms for Wireless Sensor Networks’ by Mr. Sajal Das of Centre for Research in Wireless Mobility and Networking, Texas on 7th. January, 2010 at J.U. The programme was attended by 46 participants.
  
  d) ‘Clustering of Multivariate Time Series Data’ by Prof. Roberto Baragone of University of Rome , Italy on 7th. January, 2010 at J.U. The programme was attended by 47 participants.
  
  e) ‘Semantic Image Knowledge to Medical Image Analysis’ by Prof. Mandava Rajeswari of University Sains Penang, Malaysia on 12th. March, 2010 at J.U. The programme was attended by 45 participants.
  
  f) ‘Design Automation of Embedded and Reconfigurable Systems’ by Prof. Prabhat Mishra of University of Florida, USA on 10th. August, 2010 at J.U. The programme was attended by 76 participants.
  
  g) ‘Testing & Analysis of Evolving Software’ by Prof. Abhik Roychoudhury of National University of Singapore on 13th. August, 2010 at J.U. The programme was attended by 21 participants.
  
  h) Secure Personal: Health Vaults: A new vision in Electronic Health Data Management’ by Dr. Indrakshi Ray & Dr. Indrajit Ray of Colorado University, USA on 15th. December, 2010 at J.U. The programme was attended by 51 participants.
i) ‘Cell Cycle Phase Identification Using Time-lapse Fluorescence Microscopy’ by Dr. Kannappan Palaniappan of University of Missouri-Columbia USA on 27th December, 2010 at J.U. The programme was attended by 42 participants.

- Circuits And Systems (CAS) chapter organized CASEDCOM-2010 jointly with EDS & ComSoc chapters. The theme of the programme was ‘Advances on Nano Electronics & Communication Systems’. A total of 130 participants took part in the programme.
- CAS chapter organized a one day lecture meet on ‘Nano-CAS 2010’ at TCS, Salt lake Office. The programme was held on 17th July, 2010 and was attended by 115 participants.
- CAS chapter organized a one day conference ‘CASCOM Post Graduate Students’ Paper Conference 2010’ jointly with ComSoc Chapter. The event was held at Dr. K.P. Basu Memorial Hall, J.U. on 27th November, 2010.
- CAS Chapter organised 3 technical lecture s on:
  a) 'FPGA Architectures' by Mr. R. Senrayaperumal of Vi Microsystems on 1st February, 2010 at ETCE Deptt. J.U.
  b) 'VLSI Based Embedded System Design' by Mr. R.S. Perumal of Vi Microsystems on 18th August, 2010 at ETCE Deptt. J.U.
  c) 'Optical Networks and its Components' by Prof. P.P. Sahu of Tezpur University on 28th September, 2010 at at ETCE Deptt. J.U
- Photonics Chapter organized a half day seminar on ‘Lasers in Urology’. Dr. Subrata Mukherjee Senior Clinical assistant of Fortis Hospital & Kidney Institute delivered lecture. The programme was held on 22nd April, 2010 at Dr. Meghnad Saha Auditorium, C.U.
- Photonics chapter organized a Summer School on ‘Photonics – Simulation Approaches & Research Trends (PhotoSMART) during 1st to 18th June, 2010. On an average 30 participants took part daily. The purpose of the School was to impart training to the participants for easy learning of the underlying physical processes of photonics and photonics semi-conductor devices and their applications.
- Photonics Chapter celebrated National Science Day on 3rd May, 2010 jointly with CU Students’ Branch at IRPE C.U. This year students of Calcutta Girls High School & Loreto Day School, Dharmatala were invited to participate in the celebrations.
- Photonics Chapter organized a professional meeting of its members with Prof. John Marsh, President Photonics Society on 12th April, 2010. The meeting was attended by 10 members.
- Photonics Chapter organized technical lectures on:
  a) ‘A compact Overview of Surface Plasmon waves’ by J. Sarma on 2nd February, 2010 at IRPE, C.U. The programme was attended by 26 participants.
  b) ‘Relativity for Everyone’ by N. Daditch from Pune, India on 23rd March, 2010 at IRPE, C.U. The programme was attended by 42 participants.
  c) ‘Semiconductor Optical Amplifier and its role in Advanced Optical Networking’ by A. Dasbarman, Kolkata, India on 5th June, 2010 at IRPE, C.U. The programme was attended by 60 participants.
- WIE AG celebrated International Womens Day on 8th March, 2010 jointly with at BITM, Kolkata. The programme was interact with the school children on the occasion.
- WIE AG organized a one day visit to Birla Industrial & Technological Museum for the children & women of Pratyush, Barasat on 15th May, 2010. The program was organized jointly with IEEE Calcutta Section.
- WIE AG organized technical Lecture meetings on:
a) ‘Semantic Image Knowledge to Medical Image Analysis’ by Prof. Mandava Rajeswari of University Sains Penang, Malaysia on 12\textsuperscript{th} March, 2010 at J.U. The programme was attended by 45 participants

b) ‘Diminishing Digital Divide for Mothers of Engineers: How to use Pc?’ on 23\textsuperscript{rd} August, 2010 at ISI Calcutta. The day long workshop had practical sessions to acquire computer skills.

c) ‘Sensing System for Health & Environmental Monitoring’ by Prof. S.C. Mukhopadhyay of Massey University on 16\textsuperscript{th} November, 2010 at BESU.

- GOLD AG organized technical Lecture on ‘Clusters of Vector Time Series based Statistical Modelling & Multiobjective optimisation’ by Prof. Roberto Baragona of Italy. The programme was held on 7\textsuperscript{th} January, 2010.
- GOLD AG organized technical Lecture on ‘Demonstration on VX-Works (Real Time Operating Systems’ by Mr. Srujan Babu of G. Coreel Technologies, Bangalore, on 21\textsuperscript{st}. September, 2010.

PART C – GOALS AND PLANS

C.1 Goals
- Retention of existing members through membership development programs like elevation to Senior Member grade, recognizing the efforts of active members by awarding them citations or personalized plaques.
- Increasing activities of section by arranging more lecture meetings, not necessarily technical but also on public affairs, professional activities, educational trips for students to nearby industries.

- To spread the message of IEEE within Calcutta Section jurisdiction.

C.2 Implementation Plans
- Institution of awards in the following category:
  a) Best Chapter Award based on Yearly Activity.

- To organize one day program involving all Branch Counsellors from all student branches.

- To organize one day excursion programs involving students and also Student Paper Contest

PART D - OTHERS

D.1 Relationship with National Societies
- The relationship with National Societies like The Institution of Engineers (India), The Institute of Electronics & Telecommunication Engineers India, Computer Society of India is cordial.
- Secretary of Calcutta Section is also the Jt. Convenor of Electrical Division of The Institution Of Engineers (India)

D.2 Special Events

D.3 Concern areas and suggestions
- Inactive Student Branches- explore for re-opening through incentive schemes
✓ Non-renewing members – persuasion for timely renewal.