

IEEE Kolkata Section Events

39th Annual General Meeting



The 39th Annual General Meeting of the IEEE Kolkata Section was held on Monday, January 15, 2018 at 19-30 hrs. at 'The Lalit Great Eastern' 1,2,3 Old Court House Street, Dalhousie Square, Kolkata 700069. The AGM was attended by more than 200 IEEE members. The total 14 active chapters, three affinity groups, one India Council Chapter and one Sub-section participated in the AGM.

IEEE Heritage Institute of Technology Student Branch



The IEEE Electron Devices Heritage Institute of Technology Student Branch Chapter organized a 3-day hands-on Autonomous Robotics Workshop 'Lord of the Tracks 1.0' during 20-22 February 2018. Ten teams comprising of 40 students from second year B.Tech. ECE participated in the workshop. The teams were mentored and guided by 10 student member volunteers, Student Branch Counselor Dr. Mousiki Kar and ED HIT SBC Advisor Dr. Atanu Kundu.



The IEEE Electron Devices Heritage Institute of Technology Student Branch Chapter organized a 3-day hands-on Autonomous Robotics Workshop 'Lord of the Tracks 2.0' during 13-15 March 2018. The workshop was proactively executed by 10 student member volunteers, Student Branch Counselor Dr. Mousiki Kar and ED HIT SBC Advisor Dr. Atanu Kundu. A total of 45 students from 2nd year B.Tech. ECE participated in the workshop.

IEEE IAS Kolkata Section

The first technical lecture meeting of the IAS Kolkata for 2018 is planned to be conducted on 26th March 2018 at Indian Institute of Engineering Science and Technology, Shibpur, Howrah in which . Dr. Karun Malhotra, Managing Director, Murata Business Engineering (India) Pvt. Ltd., will speak on "Opportunities in Power Electronics". The seminar will focus on two main topics. -- energy eco-system and the technologies, products and strengths (and limitations) of Murata.

IEM-IEEE Communications Society Student Chapter

The chapter, since its formal approval from IEEE on 16th Feb 2018; has been working for the preparations and successful completion of three major events, viz. The Cryptanalysis Workshop (13-14 Mar 2018), De Cipher (31st Mar and 1st Apr 2018) and eHaCON (6th and 7th Apr).

Cryptanalysis Workshop



This was a two day workshop held during 13-14 Mar 2018 with an inaugural address by Dr. Mohuya Chakraborty, HoD/IT. The workshop attended by students of various branches was conducted by Prof. Tapan Kumar Hazra, Dept of IT and Prof. Arup Kumar Chattopadhyay, Dept. of IT. The topics discussed included: Steganography and its types, viz. image, text and audio; Implementation of steganography of image and extraction of hidden message; Cryptography and various encryption techniques with the different types of Ciphers; and frequency analysis with examples. This workshop was aimed to provide a guiding platform to preparation for the upcoming coding event De Cipher.

National Seminar “Renewable Energy Converters And Storage Towards Efficient Power Utilization” .



A national seminar on Renewable Energy Converters and Storage towards Efficient Power Utilisation was organized by Electrical Engineering Section, Department of Applied Physics, University of Calcutta under the auspices of UGC SAP DRS II program on 17th Feb 2018 at Meghnad Saha Auditorium, University of Calcutta. The program was technically co-sponsored by IEEE Kolkata Section, IEEE-PES, IEE-CSS-IMS, IEEE-IAS, Kolkata chapters, Center for Excellence in Green Energy and Sensor Systems (CEGESS), IEST, Shibpur, Howrah and financially supported by IET, Kolkata Network.

Prof. Jitendranath Bera, Coordinator of DSR II program of Applied Physics welcomed the gathering.. Dr. Kaushik Das Sharma briefly spoke on the present activities related to development of smart grid prototype initiatives of the Department. Professor Amlan Chakrabarti, Dean, Faculty of Engineering and Technology, University of Calcutta delivered the inaugural address. Professor Subhsis Neogi, ex-Director, School of Energy Studies, Jadavpur University delivered the address as a Guest of Honour. Dr. Amitava Biswas delivered vote of thanks to all. the other speakers were: Prof Sujit K. Biswas, Ex. Professor, Jadavpur University and Chair IEEE Kolkata Section; Professor Partha Sarathi Sen Sharma, IIT, Kanpur; Er. Abhishek Ghosh, Exide R & D India Ltd; and Er. Alekhya Datta, TERI, New Delhi. The sessions were chaired by Er. Sanjoy Kar Chowdhury, CESC Ltd., Kolkata and Er. Satyaban Roy, Ex-Chief Engineer, WBSEDCL, Kolkata. The event was attended by a total 288 participants, including 19 faculty members, 21 industry professionals, 15 research scholars and the rest students of UG & PG in engineering.

IEEE Bhubaneswar Sub Section Activities

IEEE: Orientation, Membership Benefits and Volunteering Opportunities



The first activity of the year 2018-19 was a talk on "IEEE: Orientation, Membership Benefits and Volunteering Opportunities" by Ankit Dave, an IEEE Young Professional on 16th Feb 2018 at IIT Bhubaneswar. Dr. Subhansu Ranjan Samantaray, Secretary, IEEE Bhubaneswar Sub Section and Dr. Debi Prosad Dogra, Treasurer, IEEE Bhubaneswar Sub Section, Councilor, IEEE Student Branch addressed the students on this occasion. 45 students including B.Tech, M.Tech and Research Scholars attended this talk.

China bank opens 1st unmanned branch with robots, holograms: A state-owned Chinese bank has opened the country's first unmanned bank equipped with robots and machine holograms to talk to customers. The bank uses facial recognition technology for identification while a robot greets customers at entrance to answer questions. Machines inside the bank allow visitors to buy gold, change currency, or scout real estate investments using virtual reality goggles.

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CONNECTERE 1.0: Workshop on Networking Fundamentals



The workshop on basic networking fundamentals was conducted on 24th Mar 2018 in the School of Electrical Sciences, IIT Bhubaneswar for the students of the institute at free of cost. The workshop started with a Welcome address by Dr. Debi Prosad Dogra, Treasurer, IEEE Bhubaneswar Sub Section, Councilor, IEEE Student Branch. The lecture on “Transformation from Computer Network to SDN” given by Dr. P. L. Bera from SES, included FTP Applications, Client Server Applications, Network

Topology, SDN Flow Setup and Control etc. Hands-on session on networking simulators such as mininet, OpenDayLight, OpenFlow 2.0 was also provided to the participants. Out of 80 plus students applied for the workshop, 40 students were shortlisted and 36 from various disciplines attended and completed the workshop successfully and received the certificate.

IEEE Techno India College of Technology Student Branch Activities



Techno India College of Technology jointly organized a two-day workshop with CDAC-Kolkata on “Emerging Technologies and Applications in Electronics and Information Technology” during 21-22 Feb 2018.

Dr. Amit Chaudhuri, Group Head ICT & Services, CDAC-Kolkata inaugurated the workshop in presence of Dr. R.T. Goswami, Director, TICT; Shri Alokesh Ghosh, Joint Director, CDAC and other dignitaries.

The speakers, in this two day’s workshop, attended by over 100 students from different Techno India Group colleges, discussed the current scenarios to implement latest technologies in Electronics and Information Technology. Sessions were conducted by eminent speakers from CDAC-Kolkata and Jadavpur University which include: Dr. Amit Chaudhuri Group Head ICT & Services, CDAC-Kolkata; Dr. Nabarun Bhattacharyya, Director, CDAC-Kolkata; Prof Rajib Bandyopadhyaya, Jadavpur University; Shri Ritesh Mukherjee, Joint Director, CDAC; Shri Biswajit Saha, Joint Director, CDAC; Dr. Arun Jana, Senior Engineer, CDAC; Shri Amitava Akuli, Principal Engineer, CDAC; and Shri Sanjay Chowdhury, Joint Director, CDAC.

Device streams videos using 10,000 times less power: University of Washington researchers have developed a device which consumes up to 10,000 times less power to stream videos. They claimed to offload most of the energy-consuming work to another device using wireless transmissions. The device, which can be attached to glasses, was able to broadcast a 720P signal at 10 frames per second from a customised camera, researchers added.

Amazon working on building household robots: The robot prototypes have advanced cameras and computer vision software and can navigate through homes like a self-driving car. The company is expecting to seed the robots in employees' homes by the end of this year, and potentially with consumers as early as 2019.

IEEE EMBS Student Chapter Activities

Special Lecture on "EXPLORING THE POTENTIAL OF MEMBRANES FOR HELIUM SEPARATION FROM NATURAL GAS"



School of Bioscience and Engineering and IEEE EMBS student chapter (Jadavpur University) organized a Special Lecture on "EXPLORING THE POTENTIAL OF MEMBRANES FOR HELIUM SEPARATION FROM NATURAL GAS" By Dr. Ujjal Kumar Ghosh, Ph.D. Assistant Professor, College Of Engineering Qatar University on 29th Jan 2018. The talk imparted knowledge on basics of Helium separation from Natural Gases and the use of different kinds of membranes in that process. The lecture also imparted an overview of the application of helium gas in different sectors. Students from Jadavpur University, Heritage Institute of Technology, Netaji Subhash Engineering College and University of Engineering and management attended the lecture and benefited. Prof Chiranjib Bhattacharjee, Professor, Department of Chemical Engineering and Dean, Faculty of Engineering Jadavpur University delivered the closing remarks and also shared few of his experiences. Dr. Sukumar Roy, HOD, Netaji Subhash Engineering College also shared his valuable comments on IEEE student chapter and importance of special lectures.

IEEE Young Professional Affinity Group, Kolkata section Activities

IEEE YP technically sponsored 5th International Conference on Emerging Applications of Information Technology (EAIT 2018), at Indian Institute of Engineering Science and Technology (IEST), Shibpur, West Bengal, during 11-13 Jan 2018.

IEEE YP organized a lecture on "Chaos based Security and Authentication in Public Domain Communications" by Prof. J. K. Mandal, Department of Computer Science & Engineering, University of Kalyani, West Bengal, at Computer Science and Engineering Dept., Jadavpur University, on 8 Feb 2018.

IEEE YP technically sponsored Technological Fest at Bengal Institute of Technology, Kolkata, West Bengal, during 22-23 Feb, 2018.

IEEE Photonics Society Kolkata Section Activities

The IEEE Photonics Society Kolkata Section organized an outreach program on 10th Mar 2018 in Badaldih High School, Purulia to celebrate the National Science Day jointly with the IEEE Calcutta University student branch. The program was to increase awareness and interest in science among the students of schools. The participants numbering around 100 were students of Class IX – XI from Badaldih high school and seven other nearby schools. Sri P. C. Mahato, Headmaster of school presided over the inaugural session following which there were two lectures by Prof. P. K. Basu and Prof. N. R. Das on "Application of photonic devices in daily life" and "Light around us" respectively. The main emphasis of the program was the demonstration of Hands-on models on different aspects of basic and applied sciences prepared by students of IEEE student branch of Calcutta University and members of IEEE Photonics Society Calcutta Chapter.

The models were on Electricity, Magnetism/ Electromagnetism, Properties of Light, Heat and few daily life usages of science and technology demonstrated by Paulami Rakshit, Shampa Guin, Sonali Basak, Santu Sarkar, Soumyadip Das, Shreerupa Biswas, Piyali Mukherjee, Anamika Das, Moubani Bandyopadhyay and Madhusudan Mishra. The program was very successful which was reflected from the feedback of students and teachers. They also requested us to organize similar program in future.

ED MSIT Student Branch Chapter Activities

The ED MSIT Student Branch Chapter and MSIT Student Branch, in association with the Department of ECE, MSIT organized a one day IEEE EDS DL by Prof. Muhammad Mustafa Hussain, Professor, Electrical Engineering Computer

Electrical Mathematical Science and Engineering Division King Abdullah University of Science and Technology (KAUST) on 11th Jan 2018. The DL on "Electronics for all" was attended by around sixty students including 25 IEEE student members. All the students were immensely benefitted by the DL and the interactive sessions after the lecture.

One week summer training on “Advance VLSI Design and IoT” was organized by the ED MSIT Student Branch Chapter in association with the Department of ECE during 5-12 Jan 2018 in the Advance VLSI Design Lab. The program was organized to guide the Pre-Final year students towards the Advanced VLSI design and embedded systems. Mainly Transistor level modelling and simulation of the arithmetic and logical building blocks using Non-planar MOSFET, Internet on Things (IoT) based projects etc were dealt in depth. A total 20 students attended this program out of which 13 were the IEEE student members. Students were immensely benefitted from the training as it has enriched them for the final year major projects.

A membership awareness program was organized by the IEEE ED MSIT Student Branch Chapter on 13th Feb, 2018 to share the importance of IEEE membership and the activities of the ED SBC with the 2nd year students of the Dept. of ECE.

On 24th Mar, the event, “Electroclash” was organized by ED MSIT SBC in association with the “Megatronix” club in “PARIDHI 2018. The event was based on “spot simulation” and certain problem statement was provided to individual one. The student who could provide an optimal solution using minimal components for the program was given the prize. A total of 38 members registered for the event including 20 IEEE members.

The event “Electro-survivor” was organized by the ED MSIT SBC on 25th Mar in association with the “PARIDHI 2018”. This event was organized to encourage the students towards circuit design in the field of electronics. 22 teams of two members each participated in the event including 30 IEEE student members. The first round was circuit rectification and the next round was to design a circuit on the basis of problem statement given.

Student Branch, JIS College of Engineering Activities

On 21st Feb 2018, JIS College of Engineering organized an International Conference on impact of digital co creation in business.

On 13th Mar 2018 the student chapter had organized a Special Lecture (SL) on “Application of Power Electronics for Control of Electrical Apparatus” by Prof. Debasish Chatterjee, Professor, Jadavpur University.

On 29th Mar 2018, a guest lecture (GL) by Dr. Partha Sarathi Bera on "Power System Stability & Protection" has been organized.

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Unhappy People	Happy People
Wait for something to make them happy	Feel happy now, enjoy every moment of their life
Envy successful people	Admire great achievers, learn from them
Envy what others have	Enjoy what they have
Brooding, vengeful	Understanding, forgiving
Self-focused, antagonistic	Compassionate, loving, sociable
Frustrated	Self-confident, kind, and friendly
Negative thinkers	Positive thinkers
Fear change	Create positive change
Hate their job	Love what they do
Stressed	Creative, innovative