

## IEEE EDS Kolkata Chapter Consolidated Activity Report 2018

### **List of Distinguished Lecture (DL) Talk**

Date	DL name	Topic	No. of Attendees	Place
February 20, 2018	Dr. Soumya Pandit	Low Power VLSI Design	60	Techno India-Batanagar
February 24, 2018	Prof. (Dr.) C K Sarkar		60	Silicon Institute of Technology
March 29, 2018	Prof. (Dr.) S K Sarkar	Future Challenges and Advanced Innovations in VLSI Design		Techno India-Batanagar
June 10, 2018	Prof. (Dr.) S K Sarkar Dr. Angsuman Sarkar Dr. Manash Chanda		35	RCC Institute of Information Technology
September 4, 2018	Prof. (Dr.) C K Sarkar Dr. Angsuman Sarkar Dr. Manash Chanda			Guru Nanak Institute of Technology
December 17, 2018	Prof. Sanatan Chattopadhyay Dr. Angsuman Sarkar Dr. Atanu Kundu		80	Acharya Prafulla Chandra College

### **Mini Colloquium sponsored by the Chapter**

Date	DL name	Topic	No. of Attendees	Place
July 26, 2018	Prof. (Dr.) S K Sarkar Prof. Y S Chauhan Prof. G. N. Dash		37	Kalyani Govt Engineering College

### **Conferences/Seminars/Paper Contest sponsored by the Chapter**

Date	Name of the Conference	Place	No. of Attendees
November 24-25, 2018	Electron Device Kolkata Conference (IEEE EDKCON) 2018	Pride Plaza, Kolkata	

### **Workshop sponsored by the Chapter**

Date	Organized by	Description	Judge
February 23, 2018	Techno India – Batanagar	Technical project competition	Dr. Angsuman Sarkar Dr. Manash Chanda

### Project Contest sponsored by the Chapter

Date	Name of the student	Organized by	No of Attendees
February 23-24, 2018	Two days National Workshop on Recent Trends in VLSI Devices & Circuits (RTVDC-2018)	Departments of Electronics & Communication Engg. and Applied Electronics & Instrumentation Engg. in association with IEEE EDS Bhubaneswar-Kolkata Chapter & IEEE ED KGEC SB Chapter at Silicon Institute of Technology	70

### IEEE EDS sponsored Workshops / Project Contest

1. On 23<sup>rd</sup> February, 2018, a technical project competition has been organized by IEEE EDS Kolkata Chapter and IEEE Techno India – Batanagar Student Branch. More than 80 projects were demonstrated by the engineering and school students. Prof. (Dr.) Angsuman Sarkar, Chair, IEEE EDS Calcutta Chapter and Prof. (Dr.) Manash Chanda, Secretary, IEEE EDS Calcutta Chapter judged the competition under the project category of ECE & EE division. More than 150 students participated in the project competition including around twenty number of IEEE student members.

2. Two days National Workshop on Recent Trends in VLSI Devices & Circuits (RTVDC-2018)" on 23<sup>rd</sup>& 24<sup>th</sup> February 2018 Organized by The Departments of Electronics & Communication Engg. and Applied Electronics & Instrumentation Engg. in association with IEEE EDS Bhubaneswar-Kolkata Chapter & IEEE ED KGEC SB Chapter. Venue: Silicon Institute of Technology, Silicon Hills, Patia, Bhubaneswar, Odisha-751024. . Almost 70 peoples attended the program out of which twenty IEEE members and sixteen student members attended.

### IEEE EDS DL/Technical Talks

1. The ED Calcutta Chapter and IEEE Techno India-Batanagar Student Branch in association with ED Calcutta University Student Branch Chapter jointly organize one day Technical talk on "Low Power VLSI Design" by Dr. Soumya Pandit, Assistant Professor, Institute of Radio Physics and Electronics, University of Calcutta, SRC Vice Chair, IEEE Electron Devices Society, Region 10, Past Chair, IEEE EDS Calcutta Chapter, on 20<sup>th</sup> February. The talk started from 3pm and it was of approximately 90 minutes duration. The topic of the talk was "Low Power VLSI Design". Almost sixty students attended the event. Out of the sixty students, almost fifteen IEEE student members attended the talk.

2. The ED Calcutta Chapter and IEEE Techno India-Batanagar Student Branch, in association with Dept. of ECE will organize one day IEEE EDS DL Talk on “Future Challenges and Advanced Innovations in VLSI Design” by Prof. (Dr.) Subir Kumar Sarkar, Senior Member

IEEE & IEEE Distinguished Lecturer of Electron Device Society, Professor & Former Head, Department of Electronics and Telecommunication Engineering, Jadavpur University on 29<sup>th</sup> March, 2018.

3. ED Kolkata Chapter organized IEEE EDS Outreach Program in Silicon Institute of Technology on 24<sup>th</sup> February, 2018. Almost 60 peoples attended the program out of which twenty IEEE members and ten student members attended. Prof. Chandan Kumar Sarkar delivered an IEEE EDS DL talk on this occasion.

4. The one-day IEEE EDS outreach program was successfully organized by ECE Department, RCCIIT and sponsored by IEEE EDS Kolkata Chapter on 10th June, 2018. Participants were acquainted to various device scaling phenomena and Ultra Low Power design approach for their prediction. It helped the participants to get some ideas of this branch of Electronic Devices and also it indicated some new research dimensions for the research scholars. Dr. Angsuman Sarkar, Prof. Subir K Sarkar and Dr. Manash Chanda delivered talks in the program. Prof. Subir K Sarkar delivered an IEEE EDS DL talk in the program.

5. The one-day IEEE EDS outreach program was successfully organized by ECE Department, GNIT and IEEE EDS Kolkata Chapter on 4<sup>th</sup> September, 2018. Participants were acquainted to various device scaling phenomena and Ultra Low Power design approach for their prediction. It helped the participants to get some ideas of this branch of Electronic Devices and also it indicated some new research dimensions for the research scholars. Dr. Angsuman Sarkar, Prof. Chandan K Sarkar and Dr. Manash Chanda delivered talks in the program. Prof. Chandan K Sarkar delivered an IEEE EDS DL talk in the program.

6. IEEE ED Kolkata Chapter also arranged an EDS Outreach program on 17<sup>th</sup> December, 2018 at Acharya Prafulla Chandra College, Sajirhat, New Barrackpore to develop the professional identity in IEEE's designated fields of interest in technology and engineering among the students and faculty members. In addition, membership benefits have been discussed also. Prof. Sanatan Chaterjee, IRPEL, Calcutta University; Dr. Angsuman Sarkar, Chairman, IEEE ED Kolkata Chapter and Dr. Atanu Kundu, Ex Chair, IEEE ED Kolkata Chapter delivered technical talks in this outreach program. Almost 80 members participated in the program. Out of 80, almost 15 IEEE Members and 10 IEEE Student members participated in the program. All the participants were immensely benefited from the program.

### **IEEE EDS MQ**

1. IEEE EDS Kolkata Chapter and IEEE ED KGEC SBC jointly organize the mini Colloquium on 26<sup>th</sup> July. Three IEEE EDS DL, Prof. Subir K Sarkar, Prof. Yogesh S Chauhan and Prof. G. N. Dash delivered the DL talks in the program. Almost twenty IEEE members and seventeen IEEE student members attended the MQ. All the attendee immensely benefitted from the talk.

## **IEEE Conference**

1. IEEE ED Kolkata Chapter has organized Electron Device Kolkata Conference (IEEE EDKCON) 2018 on 24<sup>th</sup>-25<sup>th</sup> November, 2018 at Pride Plaza, Kolkata. IEEE EDKCON 2018 had called for the submission of papers in multifarious topics, ranging from Device Modeling and Simulations to Process and Manufacturing Technology, from FPGA and Real time Embedded Systems to Biodegradable and Flexible electronic Devices, to which we received an overwhelming response from the authors, both academia and industry. We are grateful to the technical program committee members and other reviewers who put forward their efforts in recruiting papers, reviewing submissions, and made valuable remarks that helped in enriching the quality of the conference. We received a total of 338 submissions from varied locations and institutes which have been evaluated on the basis of their scientific merit, novelty, contributions to the field, and technical quality. We have maintained an acceptance rate of 38.2%, accepting 129 out of 338 submissions, to maintain a high standard in terms of the quality of work. Reviewer's concerns have been addressed by revised versions of the manuscripts submitted by the authors. Total 149 Reviewers from India and Abroad has been assigned for review process. Out of 149, total 48 Reviewers are from Abroad and rest are from India. Each manuscript has been reviewed twice or thrice. In brief almost 74% of the total papers have been reviewed thrice. To enhance the quality of the conference, 3 Plenary Talks, 4 key note Talks and 3 Technical talks have been scheduled in IEEE EDKCON 2018. Total Eight journals have shown their interests to publish the selected papers of IEEE EDKCON 2018. Out of the eight journals, two journals are SCI indexed with high impact factors, two journals are Emerging SCI indexed, and four journals are Scopus Indexed. Almost fifteen Honourable IEEE EDS Distinguished Lecturer (DL) and seven Honourable IEEE Fellow Members were associated with IEEE EDKCON 2018.