
Annual Report of DEIS Chapter for the Year 2018

Introduction:

DEIS is the Dielectrics and Electrical Insulation Society whose field of interest includes the study and application of dielectrics from the molecular level, through nano-structured materials, to insulation systems in industrial, commercial, and power system equipment, to emerging applications such as those at high power levels and in biological and other small-scale systems. The geographic area under the jurisdiction of IEEE Kolkata Section has several groups active in the area of Dielectrics and Insulation Engineering. This chapter provides a platform for close interaction between academicians, researchers and practicing engineers.

A. Student Activity:

Title of the Activity: Circuistic of Convolution 2018

Organized by: Students of the Department of Electrical Engineering, Jadavpur University in Collaboration with IEEE DEIS Kolkata Chapter.

Date: 23rd-25th February, 2018

Venue: Electrical Engineering Department, Jadavpur University

Fig.1: The students participating in making circuits.

Circuistic5.0, organized by the Students of the Department of Electrical Engineering, Jadavpur University, Kolkata, India, in collaboration with DEIS Kolkata Chapter, was a competition where students from various institutions in groups took part in making circuit solutions related to practical engineering problems. There were 3 separate competitions this year under this event, namely, Junior Group for the first year students, Sophomore Group for the second year students and Senior Group for third and fourth year students. Design competition part lasted for six hours. The Jury comprised of eminent academicians and technologists to judge the award winners of the competition. Accordingly prizes and certificates were given to the participants holding the first, second and the third positions in Junior Group, first and second prizes for the Sophomore Group and only first prize was given for Senior Group. There were in total 180 participants (45 teams approx.) in this event this year.

B. Workshop:

Title of the Workshop: Advanced Renewable Energy System and its implications on Electrical Insulation (ARESIEI-2018)

Speaker:

Prof Saibal Chatterjee, Professor, Dept of Electrical Engineering, NERIST
Prof Debasish Chatterjee, Professor, Dept of Electrical Engineering, Jadavpur University
Prof S Gao, Professor, Dept of Electrical Engineering, NERIST
Mr. Sudipto Poddar, Field Engineer, Marketing, Quarbz Info Systems
Mr. Pranay Kumar, Application Engineer, Quarbz Info Systems

Topic Discussed:

DTC and Vector control of Induction Motor Drive; Vector control of PMSM, SRM and BLDC Drives; Power Electronics in Wind energy systems ; Grid integrated Power Converters; Converter typologies for stand-alone and grid connected solar PV; Advancement of Wind energy conversion systems and its recent challenges; Generation and Measurement of High Voltage for testing Insulation.; Condition Monitoring of Equipment and PD Testing

Date: From 19th -23rd February, 2018

Venue: Electrical Engineering Department, Jadavpur University

Participants: 61 Students from NIT AP; 5 From NERIST; 5 Faculty from NIT AP, 1 Faculty From NERIST.

C. Technical Lecture Meeting:

Event-I

Title of the Talk: High Voltage Power Supply: Microcontroller Based Control Techniques.

Speaker: Dr. Biswendu Chatterjee

Date: 11th July, 2018

Venue: Seminar Room, Electrical Engineering Department, Jadavpur University, Kolkata 700032

Event Participation: There were 44 participants in this lecture meeting out of which 6 were IEEE members. A large number of interested students took part in this lecture.

Event-II

Title of the Talk: Condition Monitoring of High Voltage Equipment.

Speaker: Dr. Arpan Kumar Pradhan

Date: 19th September, 2018

Venue: Seminar Room, Electrical Engineering Department, Jadavpur University, Kolkata 700032

Event Participation: There were 32 participants in this lecture meeting out of which 6 were IEEE members. A large number of interested students took part in this lecture.

D. Other Activities:

Title of the Activity: SPARKZ, State Level Inter College Electrical Engineering Quiz Competition

Date: 31st March, 2018

Venue: Pailan Technical Campus, Kolkata – 700104

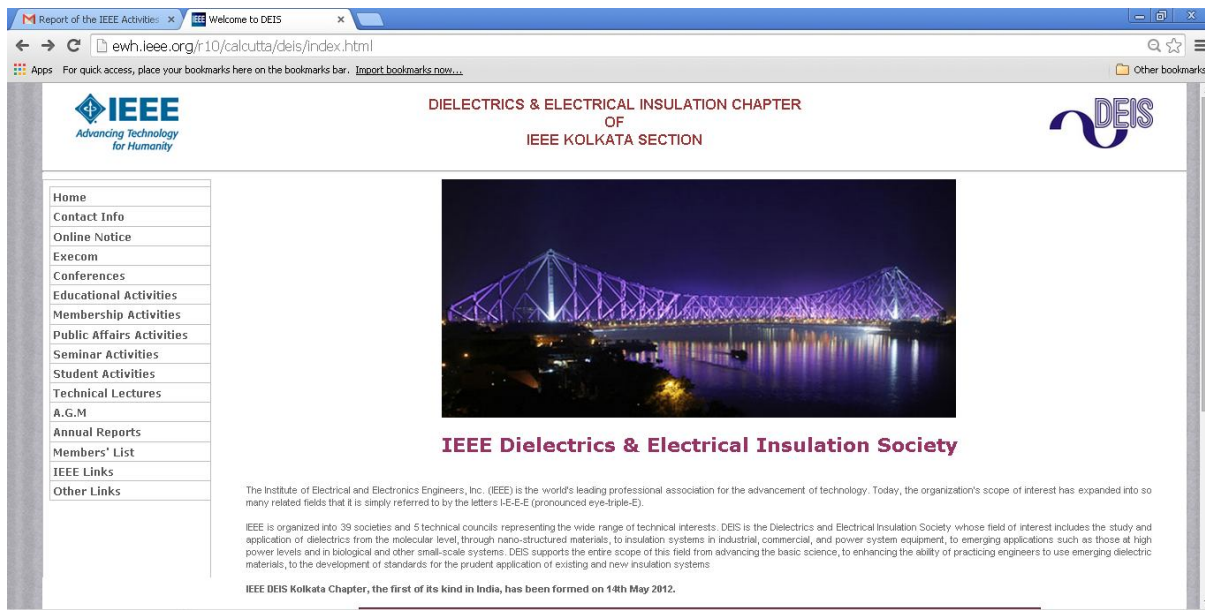
Organized by: Department of Electrical Engineering, Pailan Technical Campus

Event Participation: There were 25 teams in this activity.

Website of the Chapter:

DEIS Chapter of the IEEE Kolkata Section maintains a website with the following link:

<http://ewh.ieee.org/r10/calcutta/deis>



Preview of the IEEE DEIS Kolkata Chapter Website

Please visit the website for the updated news of all the activities of the Chapter for the year 2018.