

Report of 2023 IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP)

The 2023 IEEE CEIDP was held in the Hilton Meadowlands Hotel, 2 Meadowlands Plaza, East Rutherford, NJ, USA, between October 15 and 19, 2023. The conference was well attended with more than 180 participants from academia and industry worldwide. CEIDP 2023 returned to normal as it was held in person after three years of the COVID-19 pandemic. It was great to feature the centennial celebration of the great conference of CEIDP this year, which was initially planned in 2020 but then deferred to 2023 due to the COVID-19 pandemic.

The conference kicked off with a welcoming message from the conference chair, Prof. Kai Wu, Xi'an Jiaotong University, China, followed by the Whitehead Memorial Lecture, "Space charge and polarization in insulators," given by 2023 IEEE CEIDP Whitehead Memorial Lecturer Prof. Jacques Lewiner from ESCPI PARIS-PSL, France. More than 165 papers were featured in the oral and poster sessions of the technical program, covering the diverse topics of dielectrics and electrical insulation. The technical program also featured two workshops: one on electrification of transport, which was chaired by Prof.

Andrea Cavallini from the University of Bologna, Italy, and one on liquid dielectrics, which was chaired by Prof. Issouf Fofana from UQAC and Yazid Hadjadj from NRC, Canada. The Executive Committee and the IEEE DEIS Young Professionals announced a call for participation in the first annual Best Student Paper Award Competition, which was held during the 2023 IEEE CEIDP. The award is anticipated to become a regular feature of CEIDP. Nominated students for the award delivered their paper presentations in oral session B of the conference. The nominations went through review phases prior to conference and during the conference as jury members evaluated both the submitted manuscripts and the presentations delivered in oral session B. The two winners, Phichet Ketsamee, from the University of Southampton, UK, and Daniel Háže, from the University of West Bohemia, Czech Republic, were announced during the conference banquet on Wednesday, October 18.

CEIDP 2023 was unique as special activities for the centennial celebration of CEIDP were arranged during the conference, including the poster exhibition of previous Whitehead



Group photo of CEIDP 2023.



Whitehead lecture given by Prof. Jacques Lewiner.



A view of the poster session.



Group photo of the Young Professionals event.



Best paper awards were presented to Daniel Háže and Phichet Ketsamee by Prof. Brain Steward (left) and Prof. Kai Wu (right).

lecturers; the historical visit to the birthplace of CEIDP (i.e., the Bell Laboratories) in Manhattan, New York; the Dakin Award lecture; and the perspective lectures overseeing and making a futuristic vision for dielectrics and electrical insulation research. The Dakin Award lecture, “Nanodielectrics—An Evolving Phenomenon,” was given by Prof. Keith Nelson from



The Dakin Award lecture given by Prof. Keith Nelson.



The Eric O. Forster Award was presented to Prof. Reimund Gerhard.



Executive Committee members at the banquet.

Rensselaer Polytechnic Institute, USA. These activities impressed and enlightened attendees with the history of CEIDP and helped them consider further research in relevant fields.

Moreover, CEIDP 2023 also provided a unique experience due to power problems. The entire conference hotel experienced a power outage on Wednesday, October 18, 2023, from the afternoon to halfway through the awards banquet. During that time, the electricity was provided by the hotel's emergency backup generators. With the elevators not operational, attendees thought twice about taking the stairs up to their rooms on higher floors. Instead, most of them chose to spend more time at the bar. We have yet to determine whether the fault was due to cable, outdoor, transformer, or switch gear insulation.

The conference activities were made possible with the dedication, effort, and support of the Executive Committee of the conference, centennial organizers, DEIS Meetings Committee, local arrangement chair, and IEEE DEIS AdCom and committees.

The 2024 IEEE CEIDP is planned to take place in the Auburn University Hotel and Dixon Conference Center, 241 S. College St., Auburn, Alabama 36830, USA, between October 6 and 9, 2024.

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