

Technical Session	Technical Session Organizer
7.1 Insulation and Dielectric Breakdown	Tao Shao ( <a href="mailto:st@mail.iee.ac.cn">st@mail.iee.ac.cn</a> )

**Session MO 2.4: Insulation and Dielectric Breakdown**

Monday, May 22, 2017 from 16:00-17:30, Wildwood 13

Session Chair: Ruixue Wang, Institute of Electrical Engineering, Chinese Academy of Sciences

**16:00 MO 2.4-1 (invited) PROPAGATION OF SURFACE IONIZATION WAVE IN NS-PULSE DIELECTRIC BARRIER DISCHARGE IN ATMOSPHERIC PRESSURE AIR**

C. Zhang<sup>1,2</sup>, J. Qiu<sup>1,2</sup>, S. Zhang<sup>1</sup>, R. Wang<sup>1</sup>, P. Yan<sup>1,2</sup>, T. Shao<sup>1,2</sup>

<sup>1</sup>*Institute of Electrical Engineering, Chinese Academy of Sciences, Beijing, China*

<sup>2</sup>*University of Chinese Academy of Sciences, Beijing, China*

**16:30 MO 2.4-2 TEA CO<sub>2</sub> LASER PULSE CLIPPER USING A HV PULSE-BASED PRE-IONIZING GAS BREAKDOWN TECHNIQUE NEEDED FOR HIGH RESOLUTION ATMOSPHERIC MONITORING**

T. Gasmı Cherifi

*Division of Sciences & Engineering, Saint Louis University-Madrid Campus, Madrid, Spain*

**16:45 MO 2.4-3 (invited) PASCHEN CURVE FOR HELIUM IN 100-1000 KV RANGE**

A. V. Khrabrov<sup>1</sup>, L. Xu<sup>2</sup>, I. D. Kaganovich<sup>1</sup>, T. J. Sommerer<sup>3</sup>

<sup>1</sup>*PPPL, Princeton, NJ, United States*

<sup>2</sup>*CAS Key Laboratory of Geospace Environment, USTC, Hefei, China*

<sup>3</sup>*General Electric Global Research, Niskayuna, NY, United States*

**17:00 MO 2.4-4 ELECTRIC FIELD BREAKDOWN VERSUS FREQUENCY SIMULATED UNDER ATMOSPHERIC CONDITIONS FOR LARGE GAPS**

H. Nguyen, A. Chowdhury, J. C. Dickens, R. P. Joshi, A. A. Neuber

*Electrical and Computer Engineering, Texas Tech University, Lubbock, TX, United States*

**17:15 MO 2.4-5 SURFACE DISCHARGE PHENOMENA ON SYNTHETIC ESTER-PRESSBOARD INTERFACE: EFFECT OF MOISTURE**

C. Thirumurugan

*School of Computing and Electrical Engineering, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India*