Program - International Online Plasma Seminar (IOPS)

Presentations begin at 1:00 pm UTC on Thursdays

Date (mm/dd/yyyy)	Speaker (Affiliation)	Presentation
11/7/2024 Research Highlight	Yun-Chien Cheng (Department of Mechanical Engineering, NYCU,)	Atmospheric-Pressure Plasma Effects on Cancer Cells
11/7/2024 Research Highlight	Shimin Yu (Huazhong University of Science and Technology)	Impedance matching networks for Voltage Waveform Tailoring in CCPs.
11/21/2024 Tutorial/Review	De-Qi Wen (Dalian University of Technology)	Recent advances in particle-in-cell/neutral fluid simulations of radio frequency capacitive plasmas from low to high pressures
12/5/2024 Research Highlight	Sathya Ganta (Applied Materials)	Investigation of instabilities in Low Pressure Magnetized Capacitively Coupled Plasma
12/5/2024 Research Highlight	Abhishek Verma (Applied Materials)	Intermediate Pressure Capacitively Coupled Ar/N2 Plasmas - Experimental Diagnostics and Modeling
12/19/2024 Research Highlight	Jonas Giesekus (Ruhr University Bochum)	IEDF control and plasma etching by Voltage Waveform Tailoring (VWT).
12/19/2024 Research Highlight	Jae Hyun Nam (University of Minnesota)	Mechanisms of gold nanoparticle synthesis by plasma-liquid interaction
1/2/2025 Research Highlight	Han Luo (Applied Materials)	Particle-in-cell modeling of low-pressure radio frequency hollow cathode discharge.
1/2/2025 Research Highlight	Min Keun Lee (Seoul National University)	Discharge Mode Transition in Partially Magnetized E×B Penning Discharge.

1/16/2025 Tutorial/Review	Petr Bilek (Institute of Plasma Physics of Czech Academy of Sciences, Prague, Czech Republic)	Kinetic models of radiative states in low-temperature plasma relevant for optical diagnostics of nanosecond discharges
1/30/2025 Research Highlight	Charan Nallapareddy (University of Texas)	Plasma chemical process and its diagnostics
1/30/2025 Research Highlight	Margherita Altin (Maastricht University)	Control of NOx formation and transfer in a flowing plasma reactor.
2/13/2025 Research Highlight	Lucia Švandová (Department of Plasma Physics and Technology, Masaryk University, Brno, Czechia)	Complex characterisation of Cr-doped α-Al2O3 for DBD applications.
2/13/2025 Research Highlight	Prerna Unadkat (Academy of Scientific and Innovative Research)	A Novel Multi-Aperture r-θ Configuration-Based Pseudospark-Driven Electron Beam Source.
2/27/2025 Tutorial/Review	Hans Höft (INP Greifswald)	Fast diagnostics of pulsed discharges at atmospheric pressure.
3/13/2025 Research Highlight	Alisher Kadyrov (Curtin University)	Collisions involving injected impurities in fusion plasma.
3/13/2025 Research Highlight	,	Simulation-guided development of a magnetized low-pressure air plasma source for electric propulsion applications: global plasma modeling
3/27/2025 Tutorial/Review	Thomas Trottenberg (Kiel University, Germany)	Advanced diagnostics for electric space propulsion
4/10/2025 Research Highlight	Christian Kiefer (Max-Planck-Institute of Plasma Physics, Germany)	CO2 dissociation using a lab-scale microwave plasma torch: An experimental study in view of industrial application

4/10/2025 Research Highlight Sergey Soldatov (Karlsruhe Institute of Technology (KIT))

Microwave Reactor

4/24/2025 Tutorial/Review Vincent Donnelly (University of Houston)

plasma-surface interaction

Optimizing Gas Quenching for Improved

CO2 Conversion in a Surface-Wave