



SEMINAR ANNOUNCEMENT

“A study on of Dielectric barrier discharges (DBDs) for agricultural and environmental applications”

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Monday, 6 November 2017, 12-1 PM

Dielectric barrier discharges (DBD), are very promising for several applications including the removal of environmental pollutants, hydrocarbon conversion, and biomedicine. The so-called Dielectric barrier discharge (DBD) has an insulator/dielectric covering at least one of the electrode and can be operated at ambient temperature and pressures. In this work, I will present the diagnostics and application of DBD for agricultural applications. The plasma dynamics in a DBD is investigated by phase and space-resolved spectroscopy (PROES), using a fast time-resolved ICCD camera. The results illustrate the plasma ignition, structure, and dynamics and clarify the plasma sustainment mechanisms.