

# Speaker Series

## Electron Kinetics in Low Temperature Plasma



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### ABSTRACT

Electron kinetics defines fundamental properties of low-temperature plasma (LTP), its composition, self-organization, and interactions with electromagnetic fields and boundaries. In this seminar, we will describe basics of electron kinetics in LTP with applications to gas discharges, space plasmas, and modern plasma technologies. We will also describe our ongoing work towards the development of hybrid kinetic-fluid solvers for simulations of LTP, which combine adaptive Cartesian mesh with dynamic selection of kinetic and fluid models for different plasma species.

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**November 19, 2018**  
**2:00PM**

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ROOM 2096, CRAMER RESEARCH HALL  
THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

**Webinar Link:** <https://uah-uasystem.zoom.us/j/309848679>

