

**Space Science Seminar**  
**WEDNESDAY, 2018 May 2**  
**3:00 p.m.**  
**NSSTC/2096**

**What Pulse Structure Reveals About Gamma-Ray Burst Kinematics**

Dr. Jon Hakkila / University of Charleston

Host: Robert Preece (Sponsored by UAH)

For decades, important clues pertaining to the kinematics of gamma-ray bursts (GRBs) have lain unrecognized in their light curves. We demonstrate how redefining the basic concepts of "pulse" and "complexity" have allowed us to extract and recognize these previously unknown GRB characteristics. Our results both support and augment the standard GRB model, in quite surprising ways.

<https://solarscience.msfc.nasa.gov/colloquia/>