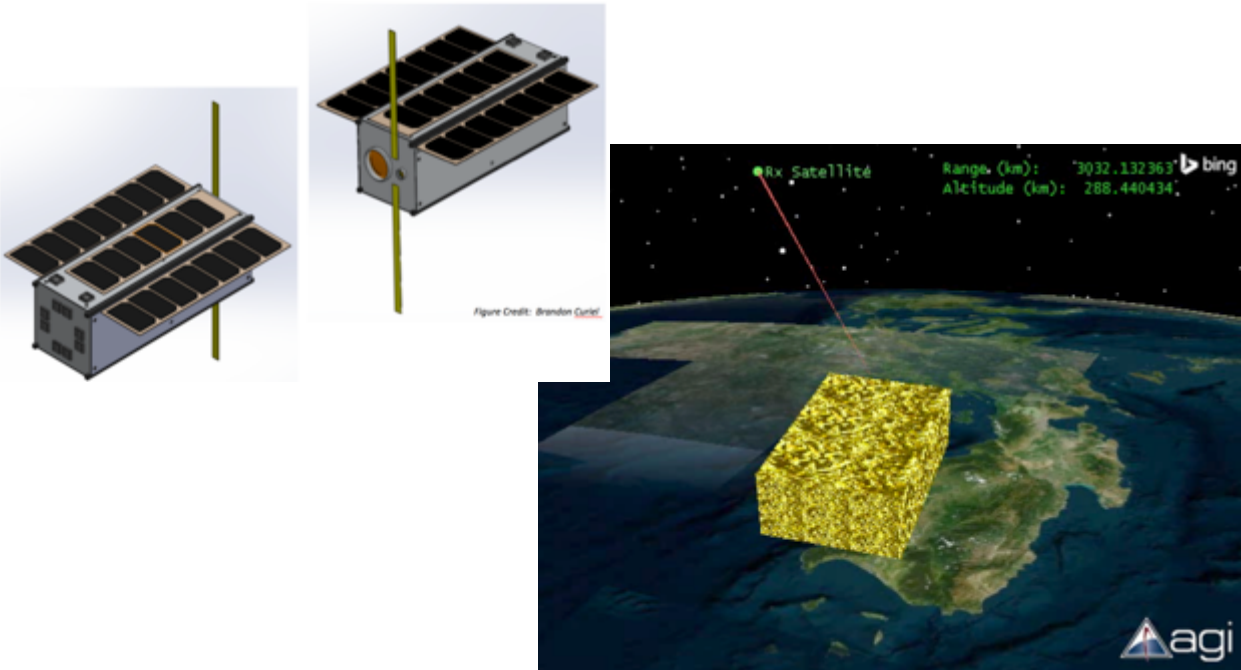


IAP 2017 Special Subject: 16.S898(G)/16.681(U) CubeSat Lasercom with iEPS

*Enable Global Connectivity with FLARE (Free-space Lasercom and Radiation Experiment) 6 Units**

Wednesdays from Jan 11 to Feb 1 (4 meetings), 10:30 am to 12:30 pm in 33-116

Prof. Kerri Cahoy, Dr. Ewan Douglas, MIT AeroAstro
*in collaboration with Prof. Paulo Lozano, Dr. Dave Krecji, and Prof. Zach Hartwig
part of Air Force Research Laboratory's University Nanosatellite Program-9 competition*



The FLARE project consists of two 3U CubeSats designed to (1) demonstrate a free-space optical communications link between two CubeSats and (2) test a new compact energetic particle spectrometer for CubeSats. Orbit and range adjustments use ion electro-spray thrusters. Over IAP, the team will be developing and analyzing the preliminary design for satellites, in preparation for our next milestone in March 2017: Preliminary Design Review (PDR). Questions? Contact kcahoy@mit.edu, crewsab@mit.edu, or acarlton@mit.edu.

**Number of units and attendance flexible to accommodate student availability. Opportunities for paid UROPS. Team members may present to AFRL UNP judges in March. Complements MIT LL's IAP lasercom course TR 11:00 am to 4:00 pm NE45-202 Jan 10 to Jan 19 (MIT LL course full, listeners only).*