

## NASA Ames LEAF Lite: Using 50-kW Lasers to Test the Radiative Heating Component of the Orion Heat Shield

NASA Ames is adding a radiant heating capability to the existing ARC Jets to test various Thermal Protection System (TPS) materials. In doing so, multiple 50-kW CW lasers have been purchased and will be used simultaneously in this new system. Laser safety remains an important goal throughout the design, testing, and operation of the system. In this talk, I will touch on the system design, controls as they relate to safe operation, and various obstacles the team has overcome while working with these high power lasers.