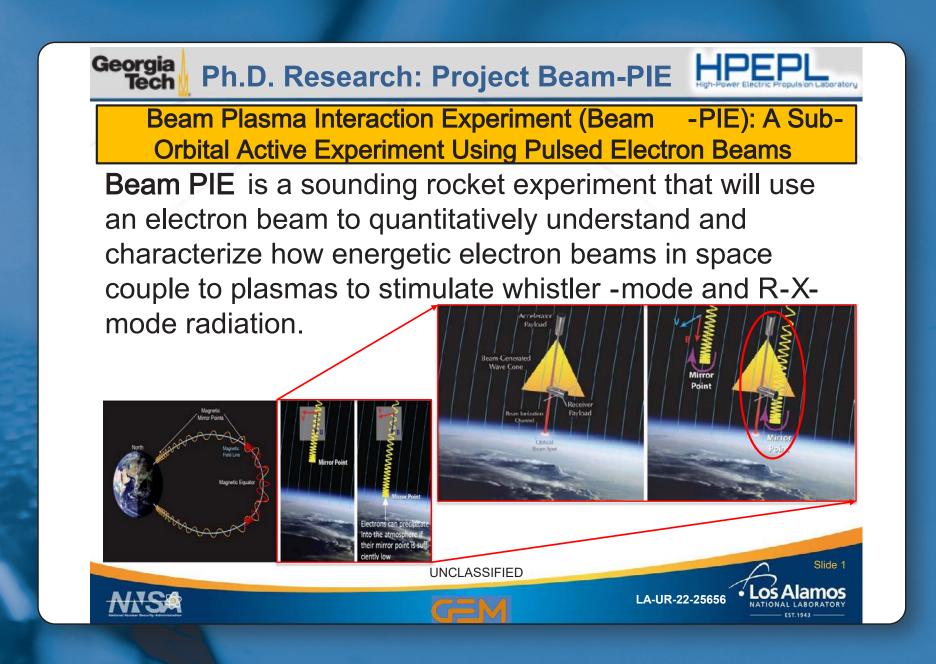


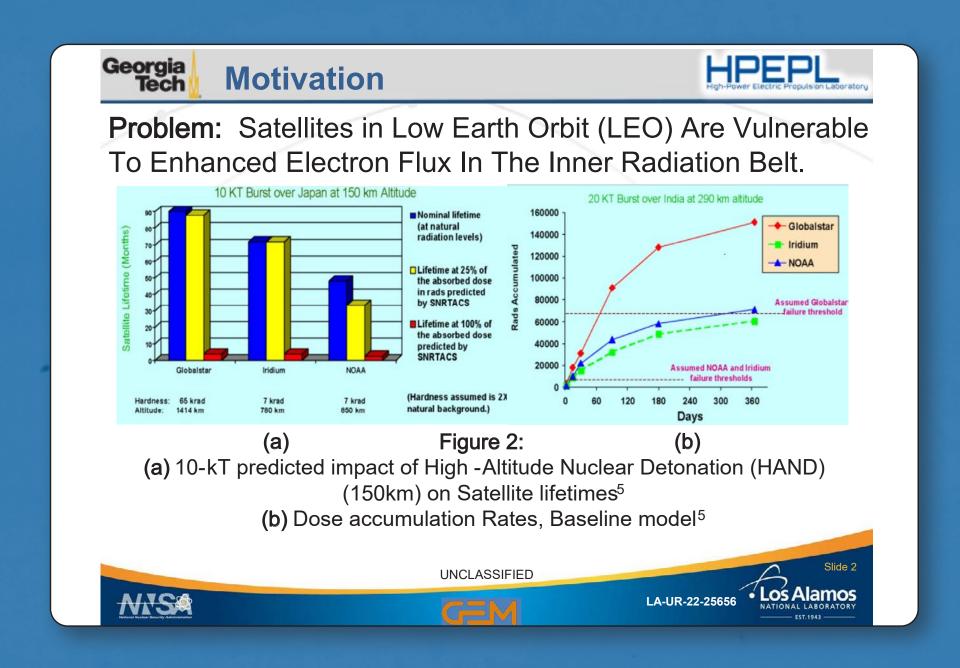
Christopher Roper

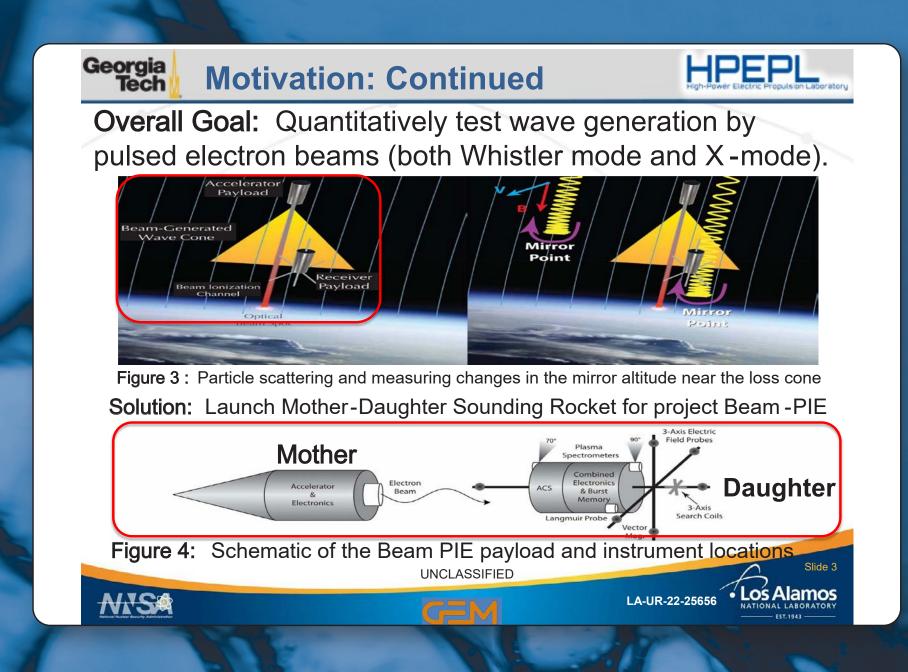
Ph.D. Student, Aerospace Engineering Second Year ARCS Scholar Dodson/Plummer Award

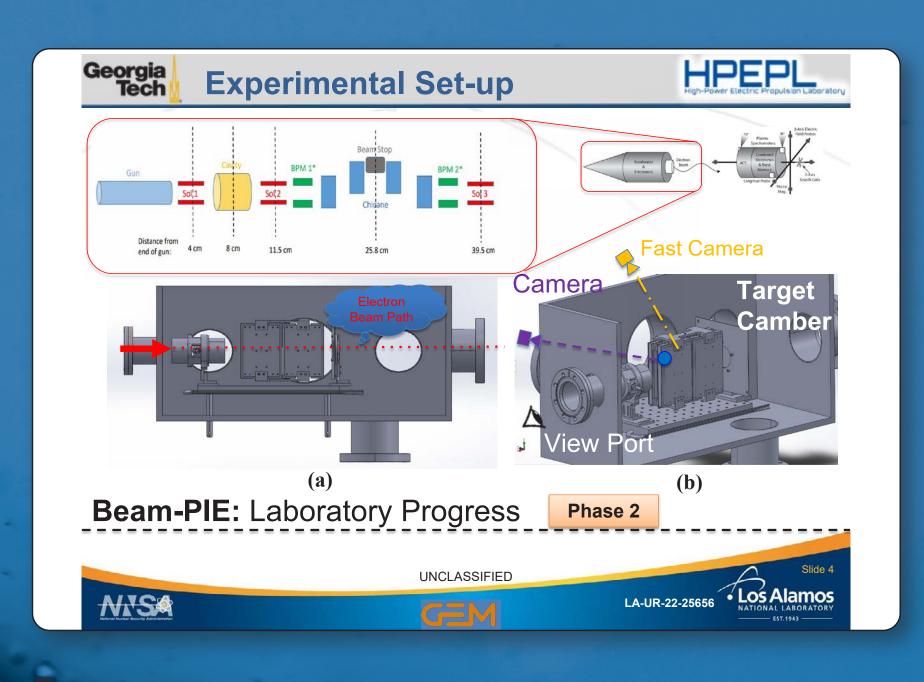


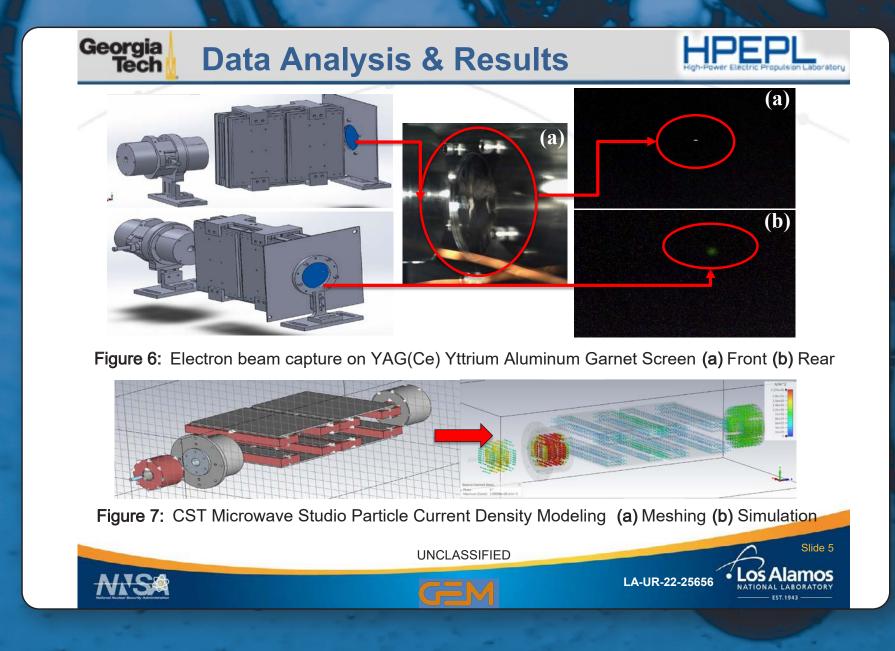
Understanding Wave Generation and Energetic Electron Beam Propagation Using a Space-Based Accelerator System

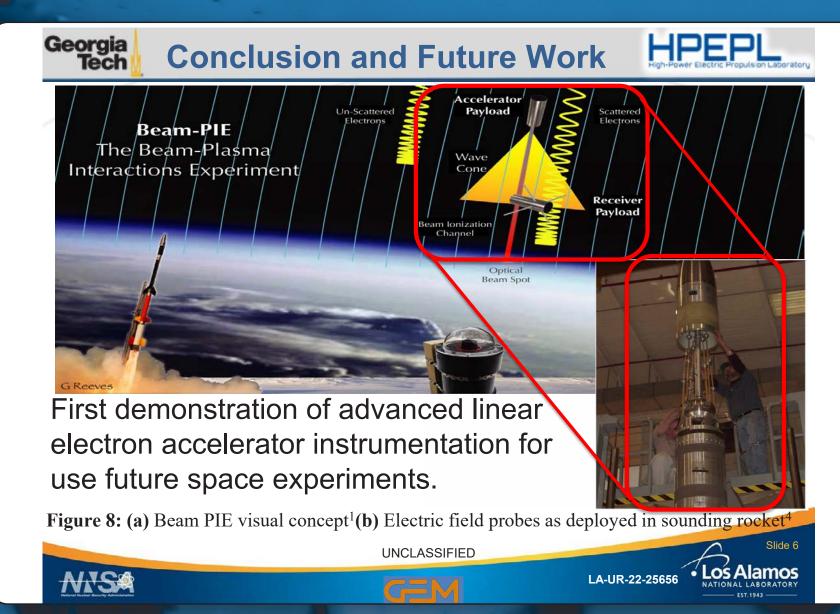












[1] Reeves, Geoffrey D., et al. "The beam plasma interactions experiment: An active experiment using pulsed electron beams." Frontiers in Astronomy and Space Sciences 7 (2020): 23. [2] Reeves, Geoffrey D. "Wave Generation and Wave-Particle Interaction Using Space-Based, RF, Linear Electron Accelerators." 2021 USNC-URSI Radio Science Meeting (USCN-URSI RSM). IEEE, 2021. [3] Duffy, Leanne Delma, et al. "Beam dynamics modeling of the Beam Plasma Interaction Experiment." AGU Fall Meeting Abstracts. Vol. 2020. 2020. [4] Reeves, Geoffrey D., et al. "The Beam Plasma Interactions Experiment (Beam PlE): A sub-orbital active experiment." AGU Fall Meeting 2019. Agu, 2019. [5] Carlsten, Bruce E., et al. "Response to comment on "radiation-belt remediation using space-based antennas and electron beams" by G. Ganguli and C. Crabtree." IEEE Transactions on Plasma Science 48.2 (2020): 604-607. [6] Carlsten, Bruce. "Applications of Compact Accelerators in Space for National Security." (2018).

