

**In-Space Propulsion Technologies for the Exploration of Phobos and Diemos.** T. Kremic<sup>1</sup> and J. W. Dankanich<sup>2</sup>, <sup>1</sup>NASA John Glenn Research Center, 21000 Brookpark Road, Cleveland, OH, 44135, MS 142-2, <sup>2</sup>Gray Research, Inc., 21000 Brookpark Road, Cleveland, OH, 44135, MS 142-2,.

**Introduction:** The In-Space Propulsion Technology Project, funded by NASA's Science Mission Directorate (SMD), is continuing to invest in propulsion technologies that will enable or enhance NASA robotic science missions. Mission analyses show benefits for In-space propulsion technologies for Phobos and Diemos reconnaissance and sample return missions. This poster provides development status, near-term mission benefits, applicability, and availability of in-space propulsion technologies towards the exploration of Phobos and Diemos.