

**Tuesday, March 14, 2006**  
**POSTER SESSION I: MISSION AND SPACECRAFT CONCEPTS**  
**7:00 p.m. Fitness Center**

Trigwell S. Schuerger A. C. Buhler C. R. Calle C. I.

*Use of Atmospheric Glow Discharge Plasma to Modify Spaceport Materials* [#2257]

Atmospheric pressure glow discharge plasma was used to modify spaceport materials to render them compliant with KSC ESD standards. The plasma treatment both inhibited and enhanced the recovery of adhered bacteria depending upon the material.

Prockter L. M. Rivkin A. S. McNutt R. L. Jr. Gold R. E. Ostdiek P. H. Leary J. C. Fiehler D. I.  
Oleson S. R. Witzberger K. E.

*Enabling Decadal Survey Science Goals for Primitive Bodies Using Radioisotope Electric Propulsion* [#1922]

We show how Radioisotope-Electric Propulsion (REP) spacecraft could orbit one or more Trojan asteroids with reasonable trip times and payloads, enabling many of the Decadal Survey primitive bodies' science goals, within a New Frontiers-scale budget.

Manian D. P. Barney R. B. Legge R. S. Lind A. H. Sisco G. J.

*FLASH — First Lunar Appulsion Spacecraft at Hypervelocity* [#2404]

Mission statement: Impact a selected target area on the Moon with three consecutive impacts at a hypervelocity of 10 km/sec using a small, low cost spacecraft by leveraging available, low cost, excess launch capacity.

Abakians H. Bothwell M. Chmielewski A. B. Nelson R. M. Stevens C. M. Ku J. McEachen M. E. White S.  
Samson J. R. Jr. Zsoldos J. McDermott T.

*NASA's New Millennium ST8 Project* [#1475]

NASA's ST8 project is a subsystem demonstration mission that will qualify, on a single spacecraft, four technologies deemed necessary to enable future NASA space science missions.

Stocky J. F. Stevens C. M. Nelson R. M.

*NASA's New Millennium ST9 Mission* [#1469]

NASA's ST-9 mission is an integrated system validation project and part of an effort to identify the technological capabilities needed for future space science missions and the technology advances that require validation in deep space to provide those capabilities.