

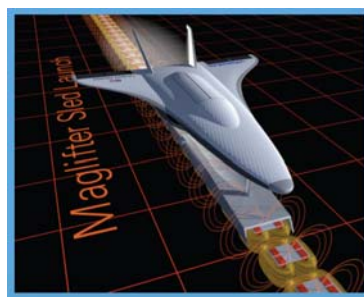


Spring Section Conference
Thursday April 7, 2011 5pm to 9pm

**Fairlane Center, University of Michigan
Dearborn, MI**

**Technical Speaker Tracks
Student Technical Posters
Vendor Table Displays
Dinner**

**Keynote Address:
Advanced Propulsion
Concepts and Electro-
Magnetic Launch Systems**



**Bryan Palaszewski
NASA Glen Research Center**

For over 70 years, advanced propulsion concepts studies have been conducted by worldwide propulsion research organizations. These studies and experimental programs have addressed the broad range of space propulsion systems: from near term chemical rocket improvements, to fast interplanetary flights, to interstellar exploration. These systems include electric propulsion, laser propulsion, aerodynamic braking in planetary atmospheres, in-situ use of planetary atmospheric and regolith-based resources, and nuclear propulsion options of nuclear fission, fusion and antimatter.



Electromagnetic launchers and accelerators have a potential niche in several important systems concepts: Earth launch to orbit, in-space transportation of large payloads and objects (asteroids, etc.), and lunar industrialization. The NASA presentation will provide an overview of the broad range of advanced concepts and focus on the important electromagnetic propulsion options within that broad context.

Web Site and Registration:
http://ewh.ieee.org/r4/se_michigan/Spring2011