SMEX Class D Principal Investigator Led Missions

November 6, 2007

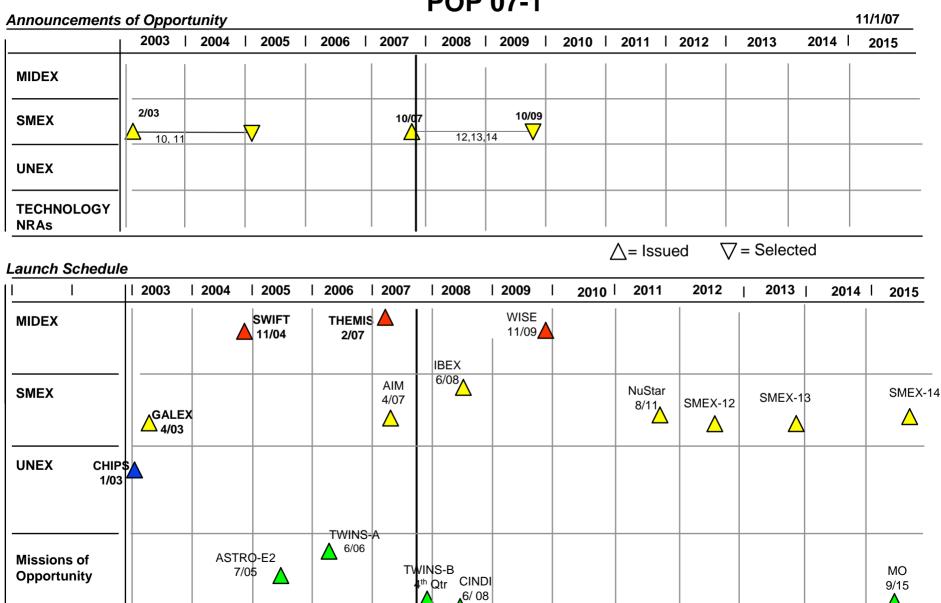


Jim Watzin
Associate Director Code 400 for Heliophysics Projects

Joe Dezio Explorer Program Manager



Explorers Schedule POP 07-1



Explorers Division Code 410 10/22/07 Associate Director **Business Manager** James Watzin Herbert Mittelman **Explorers Senior** Scientist Explorer Program Manager **Deputy Business** Joseph Dezio Manager N. Gehrels (600) Jule Johnson **Division Support** Manager Mission Business Managers System Assurance System Safety Chief Flight Manager Systems Engineer Manager R. Calvo (323) J. Bolek (599) J. Harper (302) Procurement Manager Current Current Missions of Opportunity SMEX Missions **MIDEX Missions TWINS IBEX** LRD 4th Qtr 07 LRD 6/08 Mission Manager Mission Manager Mission Manager R. Eason G. Frazier CINDI **NuSTAR** LRD 6/08 LRD 9/11 Mission Manager Mission Manager R. Eason A. Razzaghi **TBD** SMEX-12 LRD 2015 LRD 2012



SMEX-13 LRD 2013

Current

WISE

LRD 11/09

A. Razzaghi

"Tailored D Classification" Will Improve Programmatic Relevance

- SMEX science buying power has been decreasing
 - Increased conservatism
 - Lengthen development schedules
 - Increased review & oversight
 - High launch costs
- PI responsibility has been eroding
 - Increased oversight
 - Emphasis on NASA standards & processes
 - NASA verification & surveillance

SMEX "Tailored D Class" Risk/Benefit Comparison

Risks

- Single string implementation
- Streamlined review process
- Provider design standards
- Provider mission assurance

Mitigations gained through Program tailoring

- Approved Implementation Plan at Confirmation
- Class C EEE parts
- Class B test program

Benefits

- Greater team empowerment
- Improved cost performance
- Quicker development timeline