Nov 2007 Meeting

Topics of Findings:

• The four flagship mission studies
• Discovery & SMEX Capability Expansion
• New Frontiers
• PI qualifications
• Technology
• Small Bodies AG
• Student Projects
The Four Flagship Mission Studies

• Mission Concept Studies - reports Aug. 2007
  • Europa
  • Titan
  • Enceladus
  • Jovian System Observer

• Review of Science, Technical, Management and Cost - Nov. 2007
Jupiter System Observer
Mission Study:
FINAL REPORT

01 November 2007
D-41284
TANDEM
TITAN AND ENCELADUS MISSION
A proposal in response to the ESA Cosmic Vision Plan

Athena Coustenis
for The TANDEM Consortium

TITAN EXPLORER
Flagship Mission Study
January 2008
The Three Outer Planet Flagship Studies

- Mission Concept Studies
  - Europa
  - Titan
  - Jovian System Observer

- ESA/NASA/(JAXA?) collaboration
- Reports to be delivered summer 2008
Pu-238 availability

• OPAG requests that NASA and the DOE clarify the issue of their plans for Pu-238 availability to the science community.

• Sterling RTG testing on Discovery mission

• Future:
  • steady supply of Pu-238
  • regular production of RTGs with suitable capability for outer solar system exploration
Uranus & Neptune Orbiters? Probes?

• Logical sequence after Galileo & Cassini
• Comparison of J&S vs. U&N
  – Hydrogen vs. Water, Ammonia, Methane
• Why/Is Uranus so different?
• Triton - captured KBO? Pluto comparison
Next Meeting

• Report on Flagship Studies
• Technology development for outer solar system - needs of flagship mission(s)
• Strategic planning post flagship
• Cassini extended-extended mission
• Update science plan

March 31st - April 1st 2008 in Boulder

http://www.lpi.usra.edu/opag/