



Steering Group

*Planetary Science
Decadal Survey
2013-2022*

Chair:

Steve Squyres (Cornell)

Vice Chair:

Larry Soderblom (USGS)

Panel Members (Vice Chairs of Panels):

Wendy Calvin (UNR) - *Mars*

Steve Mackwell (LPI) – *Inner Planets*

Hap McSween (UTenn) – *Primitive Bodies*

Amy Simon-Miller (Goddard) – *Gas Giants*

Dave Stevenson (Caltech) – *Satellites*

Panel Members (Other):

Dale Cruikshank (Ames)

Pascale Ehrenfreund (GWU)

Scott Hubbard (Stanford)

Wes Huntress (Carnegie Inst.)

Margaret Kivelson (UCLA)

Gentry Lee (JPL)

Jane Luu (MIT)

Ralph McNutt (APL)

Tom Young (Lockheed Martin)

Inner Planets Panel

Planetary Science Decadal Survey 2013-2022

Chair:

Ellen Stofan (Proxemy Research) *Venus, Mars, Earth, Titan*

Vice Chair:

Steve Mackwell (LPI) *Venus, Moon*

Panel Members:

Barbara Cohen (MSFC) *Moon*

Steve Hauck (Case Western) *Mercury, Moon, Venus*

Allan Treiman (LPI) *Venus, Moon, Mars*

Marty Gilmore (Wesleyan) *Venus, Earth, Mars*

Lori Glaze (GSFC) *Venus, Mars, Earth, Io*

Chip Shearer (UNM) *Moon, Mars*

Ed Stolper (Caltech) *Terrestrial Planets*

David Grinspoon (Denver Museum) *Venus atmospheres, Astrobiologist*

Ayana Howard (Georgia Institute of Technology) *Technology / Engineer*

Douglas Stetson (consultant, ex-JPL) *Technology / Engineer*

Role of Inner Planets Panel (IPP)

- Develop/refine Goals and Objectives for exploration of the Inner Solar System
- Identify interconnections to other solar system objects and extrasolar planets
- *Role and relative value of human exploration*
- Supporting research and related activities (NASA and NSF) – R&A, theory/modeling, computing, data distribution/analysis/archiving, E&PO
- Instrument and infrastructure, including: curation, technology development, telescopes
- International interconnections
- Recommendations to steering group: identify potential missions for Inner Solar System exploration and prioritize them (Flagship, NF, balance of missions)

1st Meeting: Inner Planets Panel

August 26-28, 2009, Washington DC

Agenda:

Decadal Survey Overview	Steven Squyres
Charge to the Decadal Survey Committee	James
NSF's Support for the Planetary Sciences	Nigel Sharp
NOSSE Perspective on the Last Decadal Survey	Stephen Mackwell
International Lunar Network: Programmatics	George
International Lunar Network: Science	Barbara Cohen
Mercury After MESSENGER	Sean Solomon
Venus Flagship Mission Study	Mark Bullock
VEXAG Priorities and Plans for Exploration of Venus	Susan Smrekar
Open Questions for Mercury, Venus and the Moon	James Head, III
Importance of Samples to Studies of Inner Planets	Meenakshi Wadhwa
White Papers, Science Priorities and Mission Studies	Ellen Stofan

2nd Meeting: Inner Planets Panel

October 26-28, 2009, Irvine CA

Draft Agenda:

Results from M3 on Chandrayaan-1	Carle Pieters
Results from Lunar Reconnaissance Orbiter	Mark Robinson (TBC)
Technologies for a Venus Flagship Mission	Jeffrey L. Hall
Artemis Mission Update	Krishan Khurana
In Situ Dating 1	Timothy Swindle
In Situ Dating 2	F. Scott Anderson
LEAG Goals and Priorities	Clive Neal
Discussion of White Papers 1	Committee
Mission Studies 1	Committee

3rd Meeting: Inner Planets Panel

April 21-23, 2010, Boulder CO

Agenda: TBD

White Papers

35 Moon-focused

9 Venus –focused

0 Mercury-focused

2 relevant to all three inner planets

32 general topic papers submitted to multiple
panels

Total of 78 papers

Mission Planning

3 teams: Moon, Venus, Mercury

- Review previous decadal survey plus other planning documents (NRC, NASA, etc.)
- Update for recent missions, new science, new technologies (worldwide)
- Review White Papers and Presentations to Panel
- Recommend mission studies: Rapid Mission Architecture (RMA) Studies, Full Mission Studies, Independent Cost Estimates

1 round already, to be announced at DPS. From IPP:

- Mercury lander mission (RMA)
- Venus near-surface mobile explorer mission (RMA)

For more information:

http://sites.nationalacademies.org/SSB/CurrentProjects/ssb_052412