



**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)

# 1<sup>st</sup> 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

# **2<sup>nd</sup> Meeting: Inner Planets Panel**

*October 26-28, 2009, Irvine CA*

## **Draft Agenda:**

Results from M3 on Chandrayaan-1

Results from Lunar Reconnaissance Orbiter

Technologies for a Venus Flagship Mission

Artemis Mission Update

In Situ Dating 1

In Situ Dating 2

LEAG Goals and Priorities

Discussion of White Papers 1

Mission Studies 1

Carle Pieters

Mark Robinson (TBC)

Jeffrey L. Hall

Krishan Khurana

Timothy Swindle

F. Scott Anderson

Clive Neal

Committee

Committee

**3<sup>rd</sup> 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](http://sites.nationalacademies.org/SSB/CurrentProjects/ssb_052412)