

OPAG Meeting

Final Agenda

March 9-10, 2009

Doubletree Bethesda Hotel & Executive Meeting Center
8120 Wisconsin Avenue, Bethesda MD 20814

Monday, March 9

8:00	Steering Committee Meeting	
8:30	Welcome & PSS report	Fran Bagenal & Bill McKinnon
8:45	HQ Update	Jim Green (NASA HQ)
9:45	<i>BREAK</i>	
10:00	Flagship Status	Curt Niebur (NASA HQ)
11:30	<i>LUNCH (on your own)</i>	
1:00	Decadal Survey Status	David Smith (NRC)
2:00	DS Discussion and OP Strategy	Bill McKinnon (Washington Univ)
3:00	<i>BREAK</i>	
3:15	Cassini Solstice Mission	Bob Pappalardo & Linda Spilker (JPL)
4:15	Cassini Data Usability	Claudia Alexander (JPL)
4:45	Open Mike	
	Keck Observatory & Planetary Research	Phil Crane (NASA)
	Galilean Globes	David Williams (ASU)
	Uranus Mission	Mark Hofstadter (JPL)

Tuesday, March 10

8:00	Steering Committee Meeting	
8:30	Io Volcano Observer	Alfred McEwen (UA/LPL)
9:00	Titan Mare Explorer	Ellen Stofan (Proxemy)
9:20	Europa Lander Workshop	Kevin Hand (JPL)
9:35	ESA Plans in 2009-2010	Olivier Grasset (U-Nantes/ESA)
10:15	Outer Planets Exploration Architecture	Bill McKinnon (Washington Univ)
10:30	<i>BREAK</i>	
10:45	Community Participation in EJSM/ Future Workshops	Ron Greeley (ASU) and Curt Niebur
11:45	Open Mike	
12:00	Actions, Findings, and Next Meeting	Bill McKinnon (Washington Univ)
12:30	<i>LUNCH (on your own)</i>	

Thanks Fran!!





What will the Report Address?

Major Tasks

The decadal survey will address the following items:

- Overview of planetary science;
- Broad survey of the current state of knowledge of the solar system;
- Inventory of the key scientific questions to guide NASA flight missions and research programs undertaken by NASA and NSF;
- Assessment of NSF infrastructure supporting planetary research;
- Recommendations on the optimum balance across the solar system and among small, medium, and large missions and research activities;
- Prioritized recommendations for New Frontiers and flagship flight investigations for initiation in the period 2013-2022;
- Recommendations for NASA-funded research activities required to maximize the science return from the flight investigations; and
- Technology development needs and opportunities relevant to NASA.

Scope

Ground- and space-based planetary science, astrobiology and comparative planetology of extrasolar planets.

Topics of Community Panels

Mercury

Venus

Mars

Asteroids

Io

Europa

Titan

Neptune System

Kuiper Belt Objects

NEOs: Sample Return

NEOs: Human Exploration and Utilization

NEOs: Discovery, Tracking and Characterization

Lunar Exploration: Robotic and Human

Comets

Interplanetary Dust

Planetary Rings

Sub-orbital Program

Education and Outreach

Terrestrial Analogs to Mars

Radio Science and the DSN

Extraterrestrial Mineralogy

Instrument Technology

Solar System Astrometry

Should other, more macro-level topics also be addressed by the community?

OPAG white paper

- Pathways document – let's build on it
- - Prioritized missions
- - Balance among small, med. Large
- - Technology, Instrumentation, DSN (70-m)
- - Aerocapture, Pu, supporting GB
- - orbital & in-situ (extreme envirn), lab work
- - Program-What does it mean?
- - Int'l cooperation, R&A, AstroB

OPAG white paper

- I. Executive Summary** (McKinnon, Bagenal)
- II. Science Themes & Goals - Needs thorough rewrite & elevation**
 - Argument for Program (Bagenal, Cutts, ...)
 - Balance Among Mission Size/Architecture (Johnson)
- III. Exploration Strategy & Priorities**
 - Technology & Ground-based instrumentation (Beauchamp)
 - Aerocapture/argument for development (Lorenz)
 - Orbital vs. In situ/need to explore extreme environments (Atreya)
 - 70m/DSN issues (Fran)
 - Laboratory work (Spilker)
 - Ground-based & suborbital astronomy (Clarke)
 - Int'l cooperation/leverage & synergy (Baines)
 - Astrobiology (Hand)
- IV. Destinations & Mission Architectures**
 - Europa Flagship & more (C. Phillips, ...)
 - Titan Flagship (Lunine, Coustenis, Matson)
 - Neptune Flagship (Hansen, Hammell)
 - Giant Planet Probes (NF class; Atreya, Baines)
 - Large satellites (Io: Williams, Radebaugh; Ganymede: Collins, Schenk)