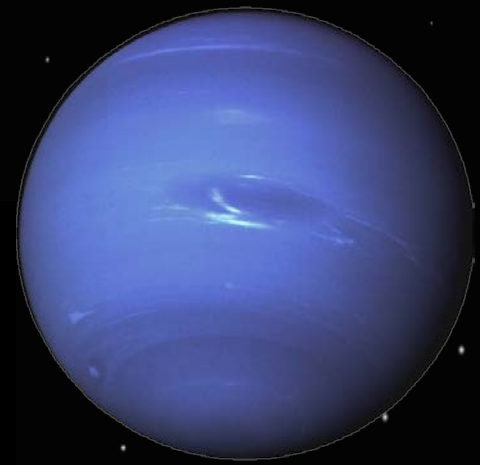
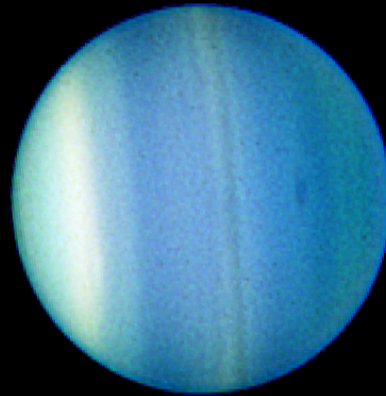
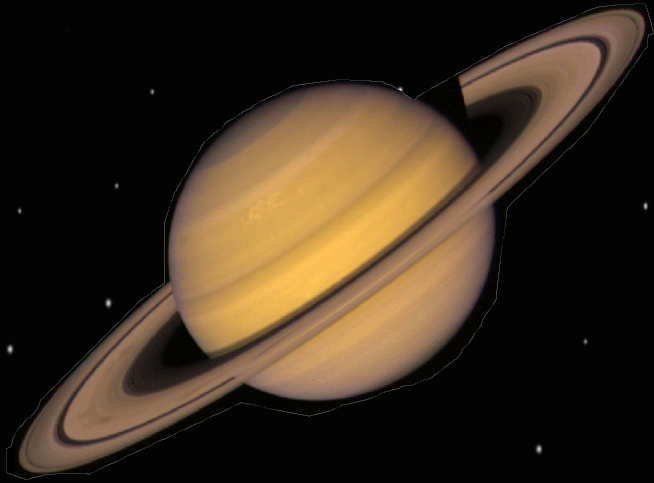


# OPAG



San Jose, CA

February 2015



# Outer Planets Assessment Group

## Charter

- OPAG is NASA's *community-based forum* designed to provide science input for planning and prioritizing outer planet exploration activities for the next several decades.
  - Long-term strategy
- Open to all interested scientists, OPAG regularly evaluates outer solar system exploration goals, objectives, investigations and required measurements on the basis of the widest possible community outreach.
  - Near-term strategy

# Meeting Topics

- Updates from NASA HQ
  - General overview and good news
  - SSW Updates
  - RPS study report and reaction
- Mission Reports
  - Ongoing (New Horizons, Juno)
  - Near future (JUICE, Europa Clipper)
  - Concept studies (Discovery, New Frontier)
  - Participating scientists
- Technology Development poster session
- Five big picture science talks
  - Jeff Cuzzi, Toby Owen, Torrence Johnson, Chris McKay, Scott Gaudi
- “Articulate the future” panel discussion

# Major objective for this meeting

- Work has been proceeding on the new science goals document
  - Target-by-target we have identified the most important science questions
  - But can we see the forest for the trees?
- Five luminaries in our field have been invited to describe the *most important, scientifically compelling questions* we'd like to address with exploration of the outer solar system
  - Advised not to be constrained by fiscal or political pragmatism
  - No focus on specific missions
  - No time constraints (multi-decadal OK)
  - Blue sky wish list!
- “Next generation” panel on Day 2 will react, add their own ideas, argue, agree...
  - Frame the future
- ***We want to articulate the big vision***

## Day 1

8:30 Welcome, Meeting objectives – Candy Hansen

8:45 NASA HQ update – Jim Green

9:30 Open Mic, Q&A

9:45 **Science talk 1** – Jeff Cuzzi

*10:15 Break*

10:35 Clipper update – Barry Goldstein, Bob Pappalardo

11:20 NAI Europa plume workshop highlights – Britney Schmidt

11:35 Europa plumes search update – Lorenz Roth (dial-in)

*11:50 Lunch*

1:00 **Science talk 2** – There's only one Rosetta stone in the Solar System: it's in the British Museum -  
Toby Owen

1:30 New Horizons report - Jeff Moore

2:00 R&A SSW Update – Mary Voytek

2:30 Open Mic, Q&A

2:45 EXCEED Participating Scientists – Pontus Brandt

*3:00 Break*

3:20 **Science talk 3** – From Powell to Pluto: Planetary Exploration in Perspective - Torrence Johnson

3:50 Technology poster intro – Pat Beauchamp

4:00 Technology poster session

*6:00 Adjourn*

# OPAG Agenda

## Day 2

- 8:30 JUICE update – Dima Titov  
9:00 Juno report – Scott Bolton  
9:30 **Science talk 4** – Organics and Life - Chris McKay  
10:00 *Break*  
10:20 RPS study results – Ralph McNutt  
10:50 DOE and RPS's – Alice Caponiti  
11:20 Discussion

### *Future Mission Concepts*

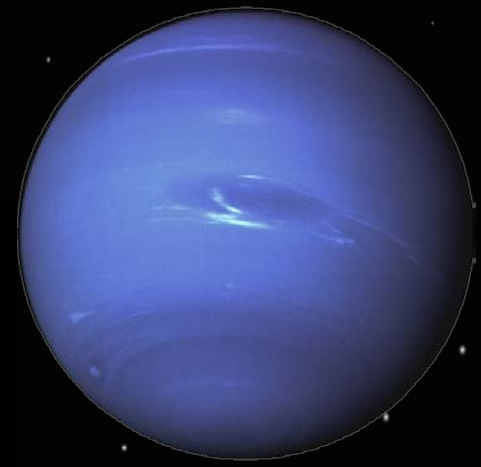
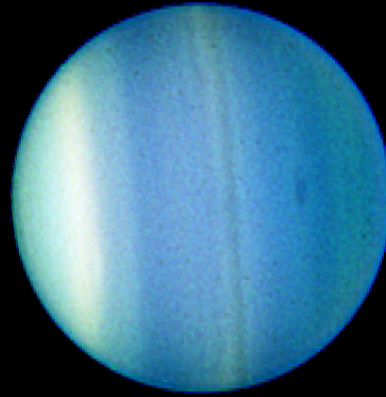
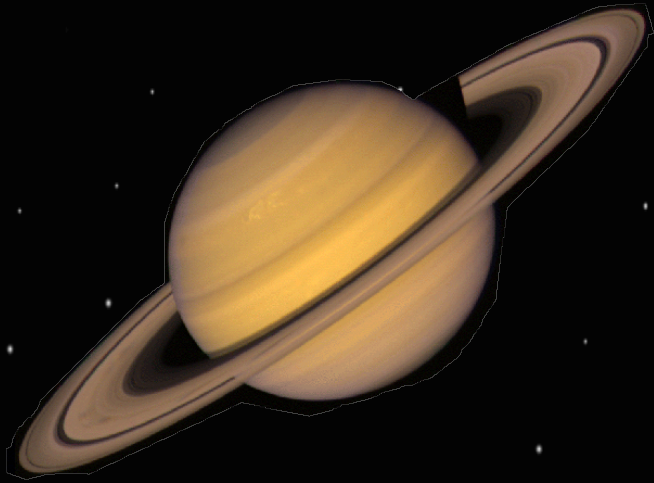
- 11:35 Io Volcano Observer (IVO) concept for Discovery 2015 – Alfred McEwen

### *12:00 Lunch*

- 1:15 Low-cost Sample Return from an Icy World: Enceladus' Plume - Peter Tsou  
1:40 Enceladus Life Finder: A Discovery Mission to the Outer Solar System – Jonathan Lunine  
2:05 Kuiper: A Discovery-class Observatory for Giant Planets, Satellites, and Outer Solar System Small Bodies – Jim Bell  
**2:30 Science talk 5** – Exploring outer exoplanetary systems - Scott Gaudi  
3:00 *Break*  
3:20 Big picture science goals for the future - PANEL DISCUSSION  
4:30 open mic - findings  
5:00 *Adjourn*

# OPAG Agenda

# Outer Solar System Exploration



*Worth the journey*