

Discoveries in Planetary Science

[\[Spanish version \[1\]\]](#) [\[Farsi version \[2\]\]](#)

- Planetary science is a field that is still evolving rapidly, and it can take several years for new advances to work their way into college textbooks.
 - These slide sets seek to bridge this gap by providing content in the form of 3-slide presentations that can be incorporated into college lectures.
 - The slide sets are targeted at the Introductory Astronomy undergraduate level.
 - Each slide set consists of three slides:
 1. a description of the discovery
 2. a discussion of the underlying science
 3. a presentation of the big picture implications of the discovery
- A fourth slide includes links to associated press releases, images, and primary sources.
- Topics span all subdisciplines of planetary science

Slide Sets

Released November 2012:



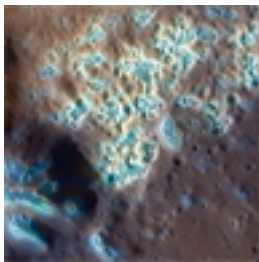
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The Man in the Moon: Fate or Coincidence? ([PowerPoint \[3\]](#), [1 page \[4\]](#), [PDF \[5\]](#))



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Dwarf Planet Smaller than Originally Thought ([PowerPoint \[6\]](#), [1 page \[7\]](#), [PDF \[8\]](#))

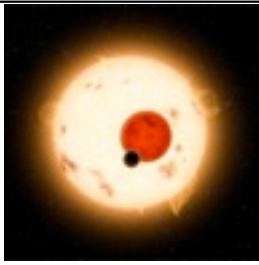


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Recent Surface Changes on Mercury? ([PowerPoint \[9\]](#), [1 page \[10\]](#), [PDF \[11\]](#))

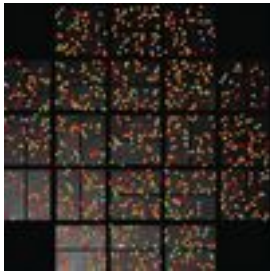
Released October 2011:

A Planet Orbiting Two Suns
([PowerPoint \[12\]](#), [1 page \[13\]](#), [PDF \[14\]](#))



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Released April 2011:



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A Thousand New Planets ([PowerPoint](#) [15], [1 page](#) [16], [PDF](#) [17])



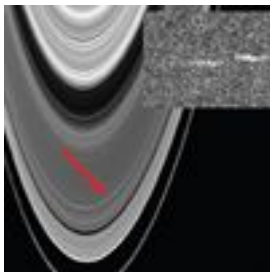
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Buried Mars Carbonates ([PowerPoint](#) [18], [1 page](#) [19], [PDF](#) [20])



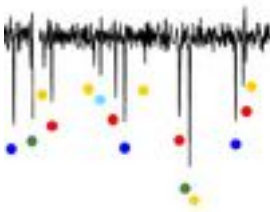
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The Lunar Core ([PowerPoint](#) [21], [1 page](#) [22], [PDF](#) [23])



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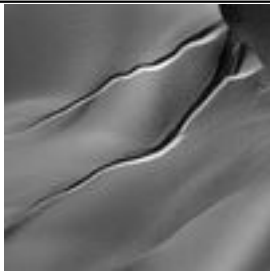
Propeller Moons of Saturn ([PowerPoint](#) [24], [1 page](#) [25], [PDF](#) [26])



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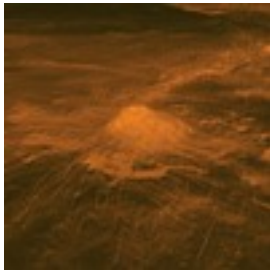
A Six-Planet System ([PowerPoint](#) [27], [1 page](#) [28], [PDF](#) [29])

Carbon Dioxide Gullies on Mars
([PowerPoint](#) [30], [1 page](#) [31], [PDF](#) [32])

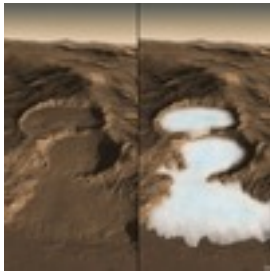


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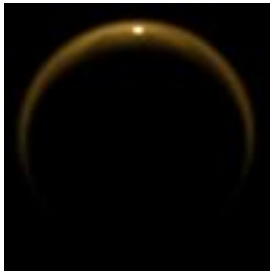
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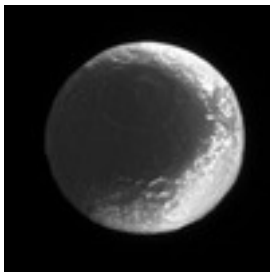
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Released December 2009:

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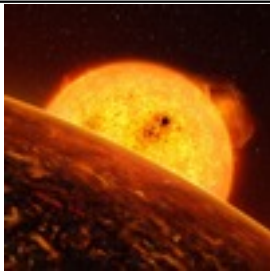
Venus May Have Active Volcanism
([PowerPoint](#) [33], [1 page](#) [34], [PDF](#) [35])
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Buried Glaciers at Mars ([PowerPoint](#) [36], [1 page](#) [37], [PDF](#) [38])

A Sunlit Lake on Titan ([PowerPoint](#) [39], [1 page](#) [40], [PDF](#) [41])

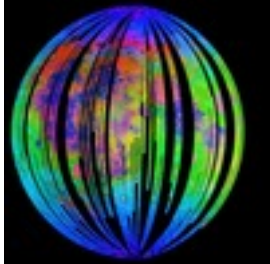
One Moon (Phoebe) Coats its Neighbor (Iapetus) in Dust ([PowerPoint](#) [42], [1 page](#) [43], [PDF](#) [44])

Possible 'Water World' at 40 Light Years ([PowerPoint](#) [45], [1 page](#) [46], [PDF](#) [47])



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First Rocky Exoplanet Detected
([PowerPoint](#) [48], [1 page](#) [49], [PDF](#) [50]
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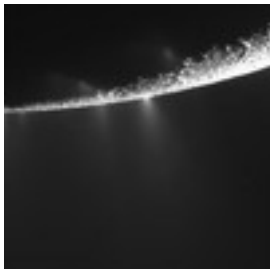
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Water Found on the Moon ([PowerPoint](#)
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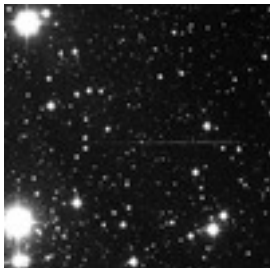
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Another Impact on Jupiter ([PowerPoint](#)
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An Ocean Below Enceladus' Icy Crust?
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Asteroid Detected Before Impact
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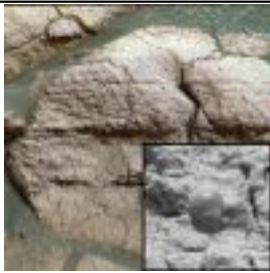


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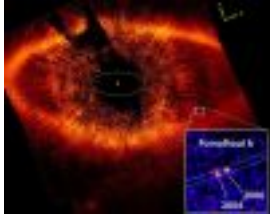
Will the World End Before Finals?
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Released April 2009:

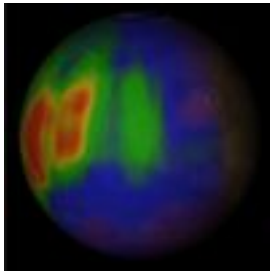
Mars Sulfur Cycle ([PowerPoint](#) [66], [1 page](#) [67], [PDF](#) [68])



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The First Images of Exoplanets
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Methane in the Martian Atmosphere
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The Chaotic Early Solar System
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Volcanoes on Mercury ([PowerPoint](#) [78]
, [1 page](#) [79], [PDF](#) [80])

Acknowledgments

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Contact

For questions, comments, or to submit your discovery for consideration, please contact dpsdisc@aa.org [81].



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Planetary scientists with recent or upcoming results of broad interest are encouraged to submit them for consideration by providing an initial draft using this [PowerPoint Template](#) [82].

Footer

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