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Education

Ph. D., Planetary Science, Massachusetts Institute of Technology, 2011
Dissertation: Tidal Heating and Tidal Evolution in the Solar System
Committee: Jack Wisdom (advisor), Linda Elkins-Tanton, Benjamin Weiss, Ruth Murray-Clay
M.S., Geophysics, Stanford University, 2006
B.S., Physics, Stanford University, 2006
Honors in Astrophysics, Minor in Mathematics

Honors and Awards

Ida Green Fellowship, Massachusetts Institute of Technology, 2006
Presidential Fellowship, Massachusetts Institute of Technology, 2006
Jeff Willick Memorial Award, Stanford Department of Physics, 2006
President's Scholar, Stanford University, 2002
National Merit Scholar, 2002

Research

Refereed Papers

Meyer, J.A. and Wisdom, J. (2011), Dynamic Elastic Tides, in preparation.
Meyer, J.A., Elkins-Tanton, L., and Wisdom, J. (2011) Corrigendum to "Coupled thermal-orbital evolution of the early Moon" [Icarus 208 (2010) 110], Icarus 212, 448-449.
Meyer, J.A. and Wisdom, J. (2011) Precession of the Lunar Core, Icarus 211, 921-924.
Meyer, J.A., Elkins-Tanton, L., and Wisdom, J. (2010) Coupled Thermal-Orbital Evolution of the Early Moon, Icarus 208, 1-10.
Meyer, J.A. and Wisdom, J. (2008), Episodic Volcanism on Enceladus: Application of the Ojakangas-Stevenson model, Icarus 198, 178-180.
Meyer, J.A. and Wisdom, J. (2008) Tidal Evolution of Mimas, Enceladus, and Dione, Icarus 193, 213-223.
Meyer, J.A. and Wisdom, J. (2007) Tidal Heating in Enceladus, Icarus 188, 535-539.

Invited Talks

Precession of the Lunar Core
Brown-MIT NASA Lunar Science Institute symposium, May 2011
The Lunar Core and a Taste of Tidal Theory
Yale Planetary Seminar, April 2011
The Lunar Core and a Taste of Tidal Theory
ITC Forum at the Harvard-Smithsonian Center for Astrophysics, January 2011

Tidal Heating and Orbital Evolution of Enceladus
Meyer, J. A.; Wisdom, J. European Geophysical Union, May 2010

Coupled Thermal-Orbital Evolution of the Early Moon
Meyer, J. A.; Elkins-Tanton, L.; Wisdom, J. European Geophysical Union, May 2010

Tidal Evolution of Mimas, Enceladus, and Dione
Meyer, J. A.; Wisdom, J. JPL, August 2007

Conference Proceedings

Precession of the Lunar Core,
Meyer, J. A.; Wisdom, J. NASA Lunar Science Forum, 2011

Dynamic Elastic Tides,
Meyer, J. A.; Wisdom, J. American Astronomical Society, DPS meeting #42, #1.03, 2011

Precession of the Lunar Core
Meyer, J. A.; Wisdom, J. American Astronomical Society, DPS meeting #42, #21.09, 2010

Precession of the Lunar Core
Meyer, J. A.; Wisdom, J. American Astronomical Society, DDA meeting #41, #9.08, 2010

Coupled Thermal-Orbital Evolution of the Early Moon
Meyer, J. A.; Elkins-Tanton, L.; Wisdom, J. American Astronomical Society, DDA meeting #41, #8.04, 2010

Coupled Thermal-Orbital Evolution of the Early Moon
Meyer, J. A.; Elkins-Tanton, L.; Wisdom, J. American Astronomical Society, DPS meeting #41, #26.01, 2009

Tidal Evolution of Mimas, Enceladus, and Dione
Meyer, J. A.; Wisdom, J. American Geophysical Union, Fall Meeting, abstract #P11F-03, 2007

Tidal Evolution of Mimas, Enceladus, and Dione
Meyer, J. A.; Wisdom, J. American Astronomical Society, DPS meeting #39, #2.02, 2007

A Numerical Exploration of Tidal Evolution Through Orbital Resonances Involving Enceladus
Meyer, J. A.; Wisdom, J. American Astronomical Society, DDA meeting #38, #13.10, 2007

Tidal Heating in Enceladus
Meyer, J. A.; Wisdom, J. American Astronomical Society, DDA meeting #38, #3.02, 2007

Dynamical Instability and Accretion in the Closely-Spaced Inner Uranian Moon System
Meyer, J. A.; Lissauer, J.J. American Astronomical Society, DPS meeting #37, #30.13, 2005

Dynamical Instability and Accretion in Systems of Closely-Spaced Inner Moons
Meyer, J. A.; Lissauer, J.J. American Astronomical Society, DDA meeting #36, #11.07, 2005

Research Employment

Postdoctoral Scholar, UCSB, June 2011 - present

Graduate Research Assistant, MIT, September 2006-June 2011

Education Associates Program, NASA Ames Research Center, August 2004-August 2006

Planetary Geology and Geophysics Undergraduate Research Program, June-August 2004

Department of Physics, Stanford University, September - December 2002

Department of Chemistry, University of Minnesota, May - September 2002

Teaching Experience

TA, Building Earth-like Planets, MIT, EAPS, February - May 2011

Guest Lecturer for three classes, Introduction to Planetary Science, MIT, February - May 2010

TA, General Geophysics and Physics of the Earth, Stanford, Geophysics, January - April 2006

TA, Planetary Systems: Dynamics and Origins, Stanford, Geological and Environmental Sciences, September - December 2005

TA, Cosmic Horizons, Stanford, Physics, September - December 2004

TA, Algebra I, Algebra II, and Trigonometry, UMN, Talented Youth Mathematics Program, September 2001 - May 2002

Professional Activities

Member, AAS Division for Planetary Science, 2007 - present.

Member, AAS Division for Dynamical Astronomy, 2007 - present.

Service: DDA Local Organizing Committee, Spring 2010.

Referee for: *Icarus*, *Nature Geoscience*

Last updated: July 27, 2011