
THE ELLIOTT W. MONTROLL LECTURES



University of Rochester
Department of Physics & Astronomy

Thursday, February 22, 2018
7:00 pm



Professor David Stevenson

Goldberger Professor of Planetary Science
Caltech

Public Lecture
Memorial Art Gallery
Auditorium

Jupiter!

David J. Stevenson FRS is the Goldberger Professor of Planetary Science at the California Institute of Technology. He is world-renowned for his studies of the interior structure and magnetism of planets, and of the formation of planets and their lunar systems. He is also a decorated teacher at both graduate and undergraduate levels, and a frequent, highly-regarded, public ambassador of planetary science and exploration.

Prof. Stevenson's many honors include the Urey Prize of the American Astronomical Society; the Hess Medal of the American Geophysical Union; fellowship in both the Royal Society (UK) and the National Academy of Sciences (USA); and Caltech's Richard Feynman Teaching Prize.

Abstract: The most massive planet in our solar system played a major role in defining our system architecture and properties, possibly including delivery of water to Earth. We are in the midst of an exciting time of discovery about Jupiter with the Juno mission, currently in orbit. Jupiter also provides us with an opportunity to learn about the behavior of materials under extreme conditions and test our ideas for metallic hydrogen, the most abundant material within it. As a participant in the Juno mission, I will discuss what Juno reveals about what goes on beneath the clouds, how Jupiter's magnetic field arises, what is in the core and how the planet may have formed. This will include the latest results from the mission, including some spectacular images of the atmosphere.

Included with museum admission that is ½ price after 5 pm
UR faculty, staff and students are free with UR ID



UNIVERSITY of
ROCHESTER