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DR. LOUISE KELLOGG

# 70th Annual Bownocker

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L E C T U R E   S E R I E S

**Public Lecture**

**"Seeing the Dynamic Earth:  
Adventures in Scientific Visualization"**

Wednesday, November 13, 2013  
291 Mendenhall Lab  
7:00 pm

**Technical Lecture**

**"Origins of Mantle Heterogeneity"**

Thursday, November 14, 2013  
291 Mendenhall Lab  
4:00 pm

## Dr. Louise H. Kellogg

Univ. of California Davis  
Professor and Chair of Planetary Sciences  
Director, Computational Infrastructure for Geodynamics



Louise H. Kellogg is a Professor in and the Chair of the Department of Earth and Planetary Science, University of California, Davis. Dr. Kellogg is the Director of the NSF-sponsored Computational Infrastructure for Geodynamics consortium that develops, supports, and disseminates community-accessible software for the geodynamics community. She is also the director of the UC Davis Keck Center for Active Visualization in the Earth Sciences (CAVES), which provides an intellectual and computational framework for the visual exploration and manipulation of data and models.

Dr. Kellogg received her BS, BA, MS, and PhD from Cornell University. She has been on the faculty at UC Davis since 1998. Her research is on the dynamics of the solid Earth, with a focus on the dual goals of: (1) understanding how convection in the Earth's mantle operates and drives geologic processes, and (2) understanding the forces causing earthquakes and landscape change. Her research emphasizes the thermal and chemical evolution of the Earth through modeling the dynamics of mixing in the Earth's mantle. She also integrates time and space through modeling and observing deformation in the crust associated with earthquakes. As the three dimensional nature of computations and data has become more complicated, Dr. Kellogg has also facilitated work in scientific visualization techniques to explore the Earth's surface and interior as both a scientific tool as well as a tool to communicate science.

Dr. Kellogg has received numerous awards and honors. She was elected a fellow of the American Geophysical Union, and presented the American Geophysical Union's Francis Birch Lecture. She has held an NSF Presidential Faculty Fellow Award, as well as Caltech's Myron C. Bantrell Research Fellow. She has served on the boards or steering committees for the Board on Earth Sciences and Resources at the National Research Council, and the Cooperative Institute for Deep Earth Research (CIDER). Dr. Kellogg has been the Virginia Tech NSF ADVANCE Program Leadership Seminar Series Speaker as well as the Phillips/Association of Women Geoscientists Distinguished Speaker.