



**THE UNIVERSITY OF CHICAGO**  
**DEPARTMENT OF THE GEOPHYSICAL SCIENCES**  
**Henry Hinds Laboratory for Geophysical Sciences**  
**5734 S. Ellis Avenue**

**Seminars for Autumn Quarter 2006**  
**Room 101**

**September 29**

1:30

**Nicolas Dauphas**, Dept. of the Geophysical Sciences, University of Chicago  
A New Window on the Dark Age of the Earth

3:00

**Feng-Zhen Teng**, The Field Museum  
Lithium Isotopic Systematics of the Continental Crust

**October 6**

1:30

**Peter Crane**, Dept. of the Geophysical Sciences, University of Chicago  
The Cretaceous Diversification of Angiosperms: the Emerging Paradigm  
and Its Inherent Weaknesses

3:00

**Jonathan Levine**, Dept. of the Geophysical Sciences, University of Chicago  
Planetary, Lunar and Solar Science from Lunar Glass Spherules

**October 13**

1:30

**Cathy Constable**, University of California, San Diego  
Geomagnetic Secular Variations on Centennial to Millennial Time Scales:  
Global Syntheses and their Applications

3:00

**Andrew Davis**, Dept. of the Geophysical Sciences, University of Chicago  
Short-lived Radionuclides in the Early Solar System

**October 20**

1:30

**Steven D. Jacobsen**, Northwestern University  
Earth's Deep Water Cycle: the Emerging Picture from Mineral Physics

3:00

**Raymond Pierrehumbert**, Dept. of the Geophysical Sci., Univ. of Chicago  
Gaia or Shiva: How Does Biology Manage the Climate Commons?

**October 27**

1:30

**Richard Twitchett**, Plymouth University  
Recovery after the Late Permian Extinction Event: An Ecological View

3:00

**Ali Pourmand**, Dept. of the Geophysical Sciences, University of Chicago  
A 28-ka History of Sea Surface Temperature, Primary Productivity and  
Planktonic Community Variability in the Western Arabian Sea



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**November 3**

1:30

**David Lorenz**, University of Wisconsin at Madison  
The Response of the Hydrological Cycle to Global Warming in the Extratropics

3:00

**Kim Knight**, Dept. of the Geophysical Sciences, University of Chicago  
Age and Paleomagnetism of CAMP Volcanism: Implications for the Timing and Tempo of the Triassic-Jurassic Boundary

**November 10**

1:30

**Francesca Smith**, Northwestern University  
Plant Lipids Record Increased Carbon Isotope Discrimination during the Paleocene-Eocene Thermal Maximum

3:00

**Denton Ebel**, American Museum of Natural History  
New Discoveries from Synchrotron Microtomography of Meteorites

**November 17**

1:30

**Wataru Ohfuchi**, Earth Simulator Center, Japan Agency for Marine-Earth Science and Technology  
Are These Realistic at All?: High-Resolution Simulations of the Oceanic and Atmospheric Circulations

3:00

**Marc Caffee**, Department of Physics, Purdue University  
Accelerator Mass Spectrometry: Applications in Terrestrial and Extraterrestrial Geosciences

**November 24**

**Thanksgiving, No Seminars**

**December 1**

1:30

**Caroline Stromberg**, Smithsonian Institution  
The Evolution of Grasses and Grass-Eaters: New Insights from the Fossil Record of Plant Silica

3:00

**Fred Ciesla**, Carnegie Institution of Washington  
Cooling off the Solar Nebula: A Tale of Elemental Depletions in Chondrites



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**Seminars for Winter Quarter 2007**  
**Room 101**

**January 5**

1:30

**John Parise**, Stony Brook University  
New Structural Mineralogy from Analysis of Total X-Ray/Neutron Scattering

3:00

**No speaker**

**January 12**

1:30

**Steven Pacala**, Princeton University  
Modeling the Terrestrial Biosphere

3:00

**Jesse Lawrence**, University of California, San Diego  
New Views of the Mantle Transition Zone

**January 19**

1:30

**Hope Jahren**, Johns Hopkins University  
The Geobiology of the Middle Eocene (~45) Arctic

3:00

**Douglas MacAyeal**, Dept. of the Geophysical Sciences, University of Chicago  
Global Storming; Sea Swell as a Teleconnection Linking Climate and Ice Sheet Calving Worldwide

**January 26**

1:30

**Clinton Conrad**, Johns Hopkins University  
Great Earthquakes, Deep Earthquakes and Changes in Plate Motion

3:00

**Jeremy Bassis**, Scripps Institution of Oceanography  
Dynamics of Iceberg Calving and Ice Shelf Rifting Inferred from Geodetic and Seismic Monitoring

**February 2**

1:30

**Vincent Larson**, University of Wisconsin, Milwaukee  
Multiscale Modeling, Clouds, and Climate

3:00

**John Marshall**, Massachusetts Institute of Technology  
Observations and Models of the Antarctic Circumpolar Current and its Meridional Overturning Circulation



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**February 9**

1:30

**Matthew Hurtgen**, Northwestern University  
Evolution of the Sulfur Cycle: Examples from the Neoproterozoic and Cambrian

3:00

**Catherine Cooper**, Carnegie Institution  
Effects of Continental Insulation and the Partitioning of Heat Producing Elements on the Earth's Heat Loss

**February 16**

1:30

**Cin-Ty Lee**, Rice University  
Weathering and Igneous Processes and How to Make a Continent

3:00

**No Speaker**

**February 23**

1:30

**Mark Serreze**, University of Colorado  
Moving Toward an Ice-Free Arctic Ocean

3:00

**Paul O'Gorman**, California Institute of Technology  
Towards a Theory of How Much It Rains: The Hydrological Cycle Over a Wide Range of Climates

**March 2**

1:30

**Cindy Looy**, Smithsonian Institution  
The End-Permian Biotic Crisis: Collapse and Recovery of Terrestrial Ecosystems

3:00

**No Speaker**

**March 9**

1:30

**Dave Bercovici**, Yale University  
Unifying Plate Tectonics and Mantle Convection, and the Physics of Shear-Localization and Damage in the Lithosphere

3:00

**No Speaker**



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**Seminars for Spring Quarter 2007**  
**Room 101**

**May 4**

1:30

**Rajdeep Dasgupta**, Lamont-Doherty Earth Observatory (Davis)  
Deep Earth Volatile Cycles: The Story of Carbon

3:00

**Thomas Stephan**, Institut für Planetologie, Münster, Germany (Davis)  
Stardust: Analysis of Cometary Samples

**May 11**

1:30

**Stefan Vogel**, Northern Illinois University, DeKalb (MacAyeal)  
Subglacial Environments in the Earth's Surface Systems--Ice-Ocean-Lithosphere Interaction Linking Ice Dynamics with Tectonic Processes, Global Ocean Circulation and the Earth's Climate Evolution

3:00

**Jessica Neu**, University of California, Irvine (Davis)  
Confronting Chemistry in a Patchy Atmosphere

**May 18**

**Student EXPO**

**May 25**

1:30

**Graham Budd**, Uppsala University, Sweden (Webster)  
Evolution's Middle Floor: Functional Morphology and the Origin of Complexity

3:00

**Timothy Creyts**, University of British Columbia (Davis)  
A Subglacial Zamboni and its Effects on the Thermodynamics of Glacial Hydrology

**June 1**

1:30

**Ed Stolper**, Caltech (Buffett)  
Minor Element Zoning in Olivines--A New Source of Information on Igneous Processes

3:00

**Elizabeth Cottrell**, Smithsonian Institution (Davis)  
New Investigative Techniques for Establishing the Geochemical Consequences of a Magma Ocean