

### Winter 2006 Smith Lecture Schedule

January	6	Gerald Dickens, Rice University	The Global Carbon Cycle with Seafloor Methane
	13	Michael Manga, UC Berkeley	Water on Mars
	20	Cathy Whitlock, University of Montana	Fire-Vegetation-Climate Linkages in the Western Americas during the Holocene
	27	Youxue Zhang, University of Michigan	Convective Particle Dissolution: Fizzics of Beer, Champagne, Carbon Sequestration, Methane Hydrate and Possible Ocean Eruptions
February	3	Ingrid Hendy, University of Michigan	Catastrophic Collapse of the Cordilleran Ice Sheet: Lessons for Today's Ice Sheets
	10	Simon Conway Morris, University of Cambridge	The Cambrian Explosion: A reality check for evolution?
<i>Dorr Dinner</i>	17	Jacqueline Flückiger, INSTAAR, Colorado	N <sub>2</sub> O and CH <sub>4</sub> Measurements from Polar Ice Cores: Insight into Global Processes
	24	Richard O'Connell, Harvard University	Heterogeneity in the Mantle
March	3	<i>Spring Break</i>	<i>No lecture</i>
	10	I-Ming Chou, USGS	Interplay Between Thermodynamic Principles and Experiments: The System MgSO <sub>4</sub> -H <sub>2</sub> O as an Example and its Applications in Martian Surface Environments
	17	Tim Melbourne, Central Washington University	Joint Seismic, Geodetic and Strainmeter Analyses of Repeating Cascadia Slow Earthquakes
	24	Steve Higgins, Wright State University	Mineral-Water Interface Processes: Dissolution, Precipitation, and the Mapping of Chemical Heterogeneities with In-Situ Scanning Probe Microscopy
	31	Richard Allen, UC Berkeley	The First Few Seconds of an Earthquake
April	7	Suzanne Baldwin, Syracuse University	How Is Rifting Exhuming the Youngest High Pressure/Ultra High Pressure Rocks on Earth?
	14	Carmala Garzione, University of Rochester	Oligocene-Miocene Rise of the Andean Plateau: Geodynamic Implications for the Construction of Orogenic Plateaus