

**PURDUE UNIVERSITY**  
**Department of Earth & Atmospheric Sciences**  
**Seminars for Spring 2009**

**Thursdays at 3:30PM in 1252 CIVL Bldg.** (unless noted)

- Aug. 28 "Are There Any Wild Cards in Global Change?", Prof. Ernest Agee , Purdue University
- Sept. 4 "Statistical Physics Approaches to Earthquake Physics and Forecasting: From Microscale to Macroscale", Prof John Rundle, University of California-Davis
- Sept. 10 "The Last Great Ice Sheet in Western Canada", Prof. John Clague, Simon Fraser University
- Sept. 11 "Right and Left: Mineral Surfaces, Molecular Selection, and the Origin of Life's Homochirality", Dr. Robert Hazen
- Sept. 18 "Formation of Precambrian Dome-and Keel Structures", Prof. Stephen Marshak, University of Illinois
- Sept. 25 "Tsunamis" What We Have Learned", Prof. Emile Okal, Northwestern University
- Oct. 2 "Testing Geophysical Hypotheses with Global Models of the Mantle/Lithosphere System", Dr. Giampiero Iaffaldano, Harvard University
- Oct. 9 "Snow-Soil Parameterization and the Effect on Weather/Climate", Prof. Wen-Yih Sun, Purdue University
- Oct. 16 "Climate vs. Farming: 100-Year Changes in Water and Carbon Fluxes from Watersheds of the Mississippi", Prof. Peter Raymond, Yale University
- Oct. 23 "Recovery of a Frasnian Carbonate Platform Ecosystem in the Wake of the Alamo Impact Event, Southeastern Nevada ", Prof. Leif Tapanila, Idaho State University
- Oct. 30 "Tectonics in Extreme Environments: Erosion and Tectonic Interactions in the St. Elias Mountains, Alaska", Prof. Terry Pavlis, University of Texas EP
- Nov. 6 "Diving into the Wreck: A Paleontological Perspective on Quaternary Extinctions", Prof. Paul Koch, University of California - Santa Cruz
- Nov. 13 "Tropical cloud and evaporation delusions", Prof. Ray Pierrehumbert, University of Chicago
- Nov. 18 "Infrastructure Opportunities & Challenges for the Earth Sciences", Dr. David Lambert, National Science Foundation
- Nov. 20 "Global CH<sub>4</sub> Cycling and Its Role in Climate Change", Prof. Qianlai Zhuang, Purdue University
- Dec. 4 "Marine Barite, a Recorder of Ocean Chemistry and Productivity", Dr. Adina Paytan , University of California - Santa Cruz