

AOB&COE Seminar

Dr. Stephen H. Kirby

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- Title: 1) A primer on rock strength and rheology**
2) Subduction in Southern Alaska: Collision, Sediment Flux and Great Interplate Thrust Earthquakes

2007年10月29日（月） 10:00-12:00

地震・噴火予知研究観測センター（別館）第一会議室

October 29, 2007 (Mon) 10:00-12:00

Research Center for Prediction of Earthquakes and Volcanic Eruptions
Meeting Room #1, AOB Annex

- Abstract -

1) This lecture is intended for students and postgraduates who are interested in deepening their understanding of stress and deformation and the inelastic deformation of rocks. Beginning with quick summary of stress and deformation as tensor quantities, I shall cover the major points about the processes that govern rock deformation and the mathematical laws that govern flow, fracture, and faulting. Finally, I suggest books in English that may be useful for further reading.

2) The source region of the great earthquakes of 1788, 1899, 1938, and 1946, and the giant 1964 Alaska earthquake is one characterized by extreme changes in geologic setting during the late Cenozoic. These changes include the collision of the Yakutat terrane beginning about 6 Myr BP, the consequent raising of the Alaska Mountain Range (the highest in north America), and Pleistocene glaciation has led to extraordinary changes in this tectonic setting. This lecture summarizes some of the key findings by the USGS Tsunami Source Working Group (Willie Lee, Ray Wells, Rick Blakely, David Scholl, George Plafker, Eric Geist, Gary Fuis, Mike Fisher, Holly Ryan, and Steve Kirby (Chairman))

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