



SOCIETY OF PHYSICS STUDENTS (SPS) EVENT

Applications of Geophysics: Fundamental Investigations of the Shallow-Subsurface

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Geophysics is the application of physical principles to the scientific study of the earth, or other planetary bodies. Geophysics includes and can be extended to meteorology, oceanic wave-behavior, or ionosphere physics; but for the intents and purposes of this colloquium, geophysics will be exclusively restricted to the physical properties of the shallow-subsurface. The shallow-subsurface contains relatively small scale features which are assumed to exist solely within the earth's crust. Such geological features which provide interesting qualities for study may be bedrock stratification, buried mineral and ore bodies, fossil fuel concentrations, seismically active fault lines, volcanism, or underground water and aquifers.

AS the human population continues to grow, so do our demands on the earthly resources that sustain our very survival. Through the knowledge brought to us via static and dynamic geophysical field methods, soils fertile with nutrients raise the crops which keep the human population fed, mining of buried metals and semiconductors provides us with the materials for the ever-growing computer and microelectronics industry, extraction of fossil fuels keeps the global economies from failure, urban expansion, civil engineering and highway construction can be practiced safely and the location and transportation of fresh water to remote areas of the earth make even the most desolate of areas habitable.

WHERE

SI – 117 (room next to Physics Computer Lab)

WHEN

Noon - 1pm
Thursday April 9th 2009

