

Life on Our Evolving Planet

A talk by **Dr. Bob Field**
Research Scholar in Residence

Tuesday, October 23, 2007

7:00 p.m.

Kennedy Library, Room 510B



The National Academy of Sciences says that it is the role of science to provide plausible natural explanations of natural phenomena. The ultimate question for Earth System History is: How did a giant cloud of cold dilute gas and dust evolve into astronauts in a spacecraft orbiting a planet orbiting a star? This talk will explore five kingdoms of life and the five billion years of physical, chemical, and biological evolution that have shaped the solid Earth, hydrosphere, atmosphere, and biosphere (including its molecules, cells, organisms, and ecosystems).

Dr. Bob Field is seeking students and faculty to help develop a website featuring:

1. a five-billion-year timeline of globally important events in 100 million year intervals
2. a database of properties and processes of the Sun and the Earth and its subsystems
3. math models of solar and global system structures and flows of energy and material
4. constructivist thematic educational resources for students, educators, and the public

Bob Field is a Research Scholar in Residence at California Polytechnic State University where he has been supervising student projects as an adjunct physics professor for seven years. He developed and taught a course on solar and global evolution and studies the structure and evolution of the Sun and the Earth. As a docent for ten years, he prepares and presents state park walks and animated slide shows in the Morro Bay State Park Museum of Natural History. Previously he was an aerospace laser systems scientist for twenty years.

