



Cornell University

Subduction, Orogeny, and the Surface of the Earth:
A Symposium in Honor of Bryan Isacks

Organized by the Institute for the Study of the Continents (INSTOC) and the Department of Earth and Atmospheric Sciences (EAS)

Sunday, October 8, 2006

Reception and Posters in Atrium of Snee Hall, 6:00-9:00 pm

Monday, October 9, 2006

8:00-8:45	Continental Breakfast/Registration	Atrium, Snee Hall
Session I: Subduction and Global Seismology	Chair: Muawia Barazangi	G90, Myron Taylor Hall
9:00-9:15	Opening comments by Matt Pritchard, Larry Brown, and Terry Jordan	
9:20-9:50	Keynote: Lynn Sykes (Columbia University)	Repeat Times of Large Earthquakes at Subduction and Transform Plate Boundaries: Implications for Earthquake Mechanics and Long-Term Prediction
9:50-10:10	Mike Hamburger (Indiana University)	What's Moving in Luzon? GPS Measurement of Tectonic and Volcanic Deformation in the Northern Philippine Island Arc
10:10-10:30	Cliff Frohlich (University of Texas, Austin)	Is There a Tide in the Affairs of... Earthquakes and Moonquakes?
10:30-10:50	Break	

10:50-11:20	Keynote: Mike Bevis (Ohio State University)	The Degree of Seismic Coupling at Subduction Zones and its Relationship to the Backarc Environment: Geodetic Insights from across the Coupling Spectrum (Tonga to Chile)
11:20-11:40	Jer-Ming Chiu (University of Memphis)	Implications of High-Frequency Wave Propagation from Intermediate-Depth Earthquakes in Subduction Zones and a New Tectonic Model along the Subduction-Collision Plate Boundary between the Converging Eurasia and Philippine Sea Plates in Taiwan Region.
11:40-12:00	Jim Knapp (University of South Carolina)	Intermediate Depth Seismicity in the Vrancea Zone of Romania: The Smoking Gun of Continental Delamination
12:00-1:30	Lunch	Atrium, Snee Hall
Session II: Earthquakes, Remote Sensing, and the Evolution of Landscapes	Chair: Matt Pritchard	G90, Myron Taylor Hall
1:30-2:00	Keynote: Peter Molnar (University of Colorado, Boulder)	Wallowing Among Erosion, Tectonics, Climate Change, Human Evolution, Chickens, Eggs, Red Herrings, Pink Elephants, and Bryan Isacks
2:00-2:20	Larry Smith (UCLA)	Russia's Vast Northern Peatlands -- a Key Player in Global Change
2:20-2:40	Dean Whitman (Florida International University)	Microtopography in the Land that Tectonics Forgot, Imaging the Quaternary Carbonate Geomorphology of SE Florida with Airborne Laser Mapping
2:40-3:00	Eric Fielding (JPL)	Mapping Active Continental Deformation from Space: Examples from California and Eurasia
3:00-3:20	Rowena Lohman (JPL/Cornell University)	Interpreting Active Continental Deformation and the Effects of Elastic Structure: Examples from California and Eurasia
3:20-3:40	Break	
3:40-4:00	Ben Brooks (University of Hawaii)	The Oliver/Isacks Mantra: Go Where There's a Big Signal. Slow Earthquakes at Kilauea Volcano, Hawaii
4:00-4:20	Dave McAdoo (NOAA)	Analyses of GRACE Inter-satellite Data: Detecting Coseismic Gravity Signals of Earthquakes from Space
4:20-4:40	Jim Ni (New Mexico State University)	From Rio Grande Rift to Tibetan Plateau

4:40-5:00	Rick Forster (University of Utah)	Alaskan glaciology from space
5:00-5:20	Tim Gubbels (Science Systems and Applications)	Natural Hazards, Disasters, and Topography Studies in Mesoamerica and the Caribbean
7:00-9:30	Banquet (By invitation only)	Speakers after dinner: Frank Rhodes, Jack Oliver, Marjorie Olds, and others

Tuesday, October 10, 2006

8:00-8:45	Continental Breakfast	Atrium, Snee Hall
Session III: South American Climate, Tectonics and Mountain Building	Chair: Larry Brown	G90, Myron Taylor Hall
9:00-9:30	Keynote: Victor Ramos (University of Buenos Aires, Argentina)	Tectonic Evolution of a Normal Andean Segment South of the Pampean Flat Slab
9:30-9:50	Sue Kay (Cornell University)	Slab Geometry, Delamination, and the Uplift of the Central Andean Plateau
9:50-10:10	Manfred Strecker (University of Potsdam, Germany)	Onset of the South American Monsoon and Plateau Evolution
10:10-10:30	Rick Allmendinger (Cornell University)	Strain and Rotation Rate from GPS in Tibet, Anatolia, and the Altiplano
10:30-10:45	Break	
10:45-11:05	Greg Hoke (University of Rochester)	Palaeosurfaces, Paleoaltimetry and the Post 10-Ma Surface Uplift History of the Altiplano
11:05-11:25	Joan Ramage (Lehigh University)	Satellite Detection of Snow Melt Patterns on the Patagonian Icefields, South America

11:25-11:45	Bob Smalley (University of Memphis)	Active deformation of South America Measured by GPS
11:45-12:15	Open Discussion	Moderator: Larry Brown
12:15-1:30	Lunch	Atrium, Snee Hall

Sunday, October 8, 2006

Posters from 6:00-9:00 pm

Cliff Frohlich (University of Texas, Austin)	The Life of Bryan: Personal Memories of Cornell Geology 1971-1978
Eric Sandvol (University of Missouri, Columbia)	The SLIP Experiment: Lithospheric Dynamics in the Southernmost Andean Plateau
Matt Pritchard (Cornell University)	Recent Crustal Deformation in the Central Andes
Camelia Knapp (University of South Carolina)	Active Foreland Deformation of the Southeastern Carpathians from Project DRACULA: Genetic Relationships with the Vrancea Seismogenic Zone of Romania
Andy Klein (Texas A & M University)	Recent Retreat of Glaciers in the Peruvian/Bolivian Andes
Rob Reilinger (MIT)	Geodynamics of African-Arabian-Eurasian Plate Interactions
John Gephart (Cornell University)	Subduction, Climate and Topography of the Central Andes—Constraints on the Dynamics and Form of the Plateau
Ray Willemann (IRIS)	The International Seismological Centre: A Resource for Global Earth Science and a Prototype of Free and Open Data Exchange
Paco Gomez (University of Missouri, Columbia)	Crustal Deformation along the Dead Sea Fault System in Lebanon and SW Syria: Results from Paleoseismology, GPS and InSAR
Rob Mellors (San Diego State University)	InSAR and Seismology in Siberia: The 2003 Mw 7.3 Altai Earthquake
Stephanie Devlin	Crustal Seismicity of the Central Andes

(Cornell University)	
Jack Loveless (Cornell University)	Relating Upper Plate Structures to the Subduction Zone Earthquake Cycle in the Northern Chile Forearc
Neil McGlashan (Cornell University)	Quadrat Analysis of Subducting Nazca Plate Seismicity
Bill White (Cornell University)	The Deep Mantle Subduction Flux
Neil McGlashan (Cornell University)	Crustal Thickness in the Central Andes from pmP Phases
Pete Nestor (Cornell University)	Evidence for Late-Miocene Uplift by Long-Wavelength Rotation of the Western Precordillera Segment of the Central Andes 20° 30' -21° 30' S
Walter Mooney (USGS)	Building a Tsunami Warning System for the Indian Ocean Region
Steve Roecker (Rensselaer Polytechnic Institute)	TBA
Danielle Glasgow (Cornell University)	Taiwan Integrated Geophysical Research (TAIGER): Investigating the Taiwan Orogen Using Active-Source Seismology and Other Techniques
Larry Brown (Cornell University)	INDEPTH and Lithospheric Structure of the Tibetan Plateau
Tiffany Tchakirides (Cornell University)	3D GPR Imaging at Los Naranjos, an Early Maya Site in Honduras
Larry Brown (Cornell University)	SEA-CALIPSO: 4D Imaging of Deep Magma beneath an Active Volcano