

# Origin and Evolution of the Continental Crust

## Kaufman INSTOC Symposium

Monday September 26, 2011, 2146 Snee Hall

The continental crust formed early in earth history and thereafter has been partially recycled by varied processes including intrusion, delamination, subduction erosion, and continental collision. It has also been increased in volume in some measure by additions of new material from the mantle. The operative processes, and whether they occur steadily or episodically, remain uncertain. The symposium will explore these important issues from a perspective of the questions that remain to be answered.

<b>8:00-9:00</b>	<b>Continental Breakfast and Registration</b>	<b>Atrium, Snee Hall</b>
9:00-9:10	Larry Cathles (Cornell)	Opening Comments and Chair
9:10-9:45	Roberta Rudnick (U. Maryland) 2011 Oliver Honorary Professor	Keynote: Origin and Evolution of the lower continental crust
<b>9:45-11:00</b>	<b>Session I: The Present</b>	<b>Chair: Larry Brown</b>
9:45-10:10	Kevin Burke	Four billion years of plate tectonics and plumes from the core-mantle boundary
10:10-10:35	Walter Mooney (USGS Menlo Park)	The global continental crust
10:35-11:00	Paola Vanucchi (U. Florence)	The subduction of sediments
<b>11:00-11:30</b>	<b>Break and Poster Viewing</b>	<b>Atrium, Snee Hall</b>
11:30-11:55	Richard Carlson (Carnegie)	Intra-plate volcanism and deep continental roots
11:55-12:20	Susanne Kay (Cornell)	Chemical aspects of subduction erosion
<b>12:20-1:45</b>	<b>Lunch and Poster Viewing</b>	<b>Atrium, Snee Hall</b>
<b>1:45-3:00</b>	<b>Session II: The Past</b>	<b>Chair: Bill White</b>
1:45-2:10	Scott Samson (Syracuse)	Neoproterozoic mountain belts
2:10-2:35	Jeff Vervoort (Washington State)	Radiogenic constraints
2:35-3:00	Chris Hawkesworth (St. Andrews)	Pulses of crustal formation
<b>3:00-3:30</b>	<b>Break and Poster Viewing</b>	<b>Atrium, Snee Hall</b>
<b>3:30-4:45</b>	<b>Session III: Processes</b>	<b>Chair: Muawia Barazangi</b>
3:30-3:55	Chris Andronicos (Cornell)	The Movement of felsic magmas
3:55-4:20	Peter Kelemen (Lamont)	Reactions between melt and rock
4:20-4:45	Robert Kay (Cornell)	Ranking of possible processes
<b>4:45-5:15</b>	<b>Open Discussion</b>	<b>Chairs: Kevin Burke and Chris Hawkesworth</b>
<b>5:30-6:30</b>	<b>Hors d'Oeuvres and Posters</b>	<b>Atrium, Snee Hall</b>
<b>6:30-9:00</b>	<b>Dinner</b>	<b>Atrium, Snee Hall</b>

Organized by the Institute for the Study of the Continents (INSTOC) and the Department of Earth and Atmospheric Sciences (EAS), Cornell University, Ithaca, NY