

2019 Kaufman INSTOC Symposium

October 14-15, 2019

Mysteries of the Earth's Mantle: Honoring Larry Cathles, Bob Kay, and Bill White

Institute for the Study of the Continents and the Department of Earth and Atmospheric Sciences, Cornell University

Mon. Oct. 14, Country Club of Ithaca, 189 Pleasant Grove Rd.

3:30 – 3:40	WELCOME & OVERVIEW	David Hysell, Department Chair
	Session 1	Chair: Matt Pritchard (Cornell)
3:40 – 4:10	Allen McNamara (Michigan State)	Constraints and Hypotheses on Large Scale Mantle Dynamics
4:10 – 4:40	Terry Plank (Lamont)	Water and Carbon in the Mantle
4:40 – 5:10	Mark Richards (Washington)	The Cathles Parameter, Galapagos, and the Struggle for Elegance in Geodynamics
5:10 – 5:30	Discussion	Chair: Matt Pritchard
5:30 – 6:30	Reception/Cocktails (Cash bar)	
6:30 – 9:30	BANQUET (Cost applies)	Dinner, Toasts

Tues. Oct. 15, Cornell Campus: Snee and Hollister Halls

8:00-9:00	Continental Breakfast/Registration	Snee Hall Atrium
9:00-9:05	WELCOME	B14 Hollister Hall (Matt Pritchard, INSTOC Director)
9:05-9:10	Overview	Larry Cathles, Symposium Coordinator
	Session 2	Chair: Samuel Kachuck (Michigan)
9:10-9:40	Barbara Romanowicz (Paris/UCB)	Tomographic images of deep mantle structures
9:40-10:10	Willy Fjeldskaar (Norway)	Evidence and challenges in glacial isostatic adjustment
10:10-10:40	Martin Schoell (Germany)	From mountains to mantle: a new history of atmospheric oxygen in the Phanerozoic
10:40-11:00	Coffee Break	
	Session 3	Chair: Jeff Vervoort (Washington State)
11:00-11:30	Richard Walker (Maryland)	Hf-W evidence that OIB may confirm Tuzo and Jason
11:30-12:00	Al Hofmann (Germany/Lamont)	The isotopic and TE evolution of the mantle and crust
12:00-12:30	Karen Harpp (Colgate)	The Evolution of the Galapagos Plume
12:30-2:00	Lunch and Posters	Snee Hall Atrium
	Session 4	Chair: Suzanne Kay (Cornell)
2:00-2:30	Mike Perfit (Florida)	Melt extraction at mid-ocean ridges
2:30-3:00	Suzanne Kay (Cornell)	Generation of continental crust in island arcs
3:00-3:30	Dave Scholl (USGS)	How scientific drilling tests hypotheses about the origin of the Aleutian subduction zone, its crowning arc, and its back arc basin
3:30-3:50	Coffee Break	
	Session 5	Chair: Muawia Barazangi (Cornell)
3:50-4:00	Kevin Clermont (Cornell)	Logic in Law and Science
4:10-4:20	Jeff Vervoort (Washington State)	The growth and evolution of Earth's earliest crust
4:20-4:30	Esteban Gazel (Cornell)	Are intraplate melts sampling the mantle's transition zone?
4:30-4:40	Keiko Hattori (Ottawa)	Subduction of halogens to the deep mantle
4:40-4:50	Megan Holycross (Cornell)	Experimental insights into Mantle Redox
4:50-5:00	Karin Olson Hoal (Cornell)	Resources from the mantle
5:00-5:10	Francis Albarède (Lyon)	Silver isotopes
5:10-5:30	General Discussion	Chair: Esteban Gazel
5:30-5:35	CLOSING	Matt Pritchard, INSTOC Director