

Program for “Frontiers in Earth Surface System Interactions”

May 12–13, 2011

Department of Geology and Geophysics, Yale University

Day and Time	Event or Topics	Speaker	Place
<u>Thursday May 12</u>			
<i>Topic: Volcanology and Exchange of Volatiles between the Mantle and Atmosphere</i>			
8:15 am	Light Breakfast		102 KGL
9:00	Welcome and Introduction	David Bercovici, Chair, G&G	123 KGL
9:15	“From the Slab to the Eruption, the Water Cycle at Subduction Zones”	<u>Terry Plank</u> , LDEO (Keynote)	123 KGL
10:00	Break with coffee and tea		102 KGL
10:30	“A story of (volatile) loss and (crystal) growth”	<u>Julia Hammer</u> , U. Hawaii	123 KGL
11:15	“Gas is the driving agent, and magma is its vehicle”	<u>Alison Rust</u> , U. of Bristol	123 KGL
12:00 pm	Luncheon		102 KGL
<i>Topic: Hydrosphere-Lithosphere Interactions and Resources</i>			
1:30	“Redox conditions during Serpentinization of abyssal peridotite: field observations, theoretical constraints, and hydrothermal experiments”	<u>Frieder Klein</u> , WHOI	123 KGL
2:15	“Chemical and isotopic equilibria of C-O-H fluids at lower crustal conditions”	<u>Dionysis Foustoukos</u> , Geophys. Lab.	123 KGL
3:00	Short break with coffee and tea		102 KGL
3:15	“Gas transport pathways in the seasonal ice zone”	<u>Brice Loose</u> , WHOI	123 KGL
4:00	“Subduction zone cycling of chlorine”	<u>Jaime Barnes</u> , UT Austin	123 KGL
4:45	Beer and Poster reception		KGL Atrium
6:30	Reception and Dinner	Skappo (Italian), 59 Crown St.	

Friday, May 13

Topic: Hydrosphere-Lithosphere Interactions and Resources, continued

8:30 am	Light Breakfast		102 KGL
9:00	“The redox budget of subduction zones and implications for fluid transport into the mantle wedge”	<u>Katy Evans</u> , Curtin Univ.	123 KGL
9:45	“Metamorphic controls on the sulfur cycle”	<u>Andrew Tomkins</u> , Monash Univ.	123 KGL
10:30	Break with coffee and tea		102 KGL

Topic Atmosphere-Hydrosphere-Surface Interactions and Paleoclimates

11:00	“Grassland expansion and their Role in altering the hydrologic balance from the Miocene to Recent”	<u>Page Chamberlain</u> , Stanford (Keynote)	123 KGL
11:45	“The oxidation states of carbon in the Earth’s organic reservoirs”	<u>Carrie Masiello</u> , Rice Univ.	123 KGL
12:30 pm	Luncheon		102 KGL
1:30	"A hydrologic thermostat for the geologic carbon cycle”	<u>Kate Maher</u> , Stanford	123 KGL
2:15	"Tracking the oxidation of Earth’s surface”	<u>Noah Planavsky</u> , UC Riverside	123 KGL
3:00	Concluding remarks	Zhengrong Wang and Jay Ague	
6:00	Casual dinner (optional)	Wall Street Pizza, 90 Wall St.	