



Monday, May 23, 2011 in Salvatori Seminar Room, 365 South Mudd

Short Course on Climate Physics and Geoengineering*

Time	Event	Speakers
8:30 - 9:00	Coffee and refreshments	
9:00 - 10:30	Motivations for considering geoengineering (including "climate emergencies"), overview of key physical processes and geoengineering	MacCracken
10:30-11:00	Break	
11:00-12:30	Stratospheric aerosols, their effects on radiative forcing, analogues (volcanoes) & risks	Robock
12:30 - 2:00	Lunch	
2:00 - 3:30 pm	Cloud-aerosol microphysics, effects of marine and high clouds on albedo & climate, analogues (ship tracks), and risks	Feingold
3:30 - 4:00	Break	
4:00-5:00	Surface cover effects on albedo & climate, analogues (dust on snow), and risks	Painter
5:00-6:00	Modeling Climate Physics: challenges & climate sensitivity studies	Rasch
6:00 - 8:00	KISS Welcome Dinner at the Athenaeum (Workshop Participants only)	

Tuesday, May 24, 2011 in Millikan Library - 6th Floor

Stratospheric Aerosols & Radiative Forcing

Time	Event	Speaker
8:30 - 9:00	Coffee and refreshments	
9:00 - 9:30	KISS Logistics and Overview	Michele Judd/Tom Prince
9:30 - 9:45	Introductions	ALL
9:45 - 10:15	Goals of Workshop	Team Leads
10:15 - 10:45	Break	
10:45 - 11:45	What do we need to know about stratospheric aerosols, their radiative forcing, analogues, and geoengineering risks?	Robock Toon Keith
11:45 - 12:45	Current & planned observational capabilities: strato aerosols and radiative forcing	Vernier
12:45 - 2:15	Buffet lunch at the Athenaeum provided by KISS	
2:15-3:15	Student/Post doc presentations (three 20 min)	Students and Postdocs
3:15 - 3:45	Break	
3:45-5:15	Breakout discussions - enumerate gaps between knowledge needs and current/planned capabilities for stratospheric aerosols, radiation, earth system consequences	
5:15-6:00	Plenary Discussion	
6:00 - 8:00	Offsite dinner in Pasadena (KISS will pay for grad students and postdocs who attend)	

Wednesday, May 25, 2011 in Millikan Library - 6th Floor**Aerosols & Cloud Albedo**

Time	Event	Speaker
8:30 - 9:00	Coffee and refreshments	
9:00-10:30	What do we need to know about cloud-aerosol microphysics, marine and high cloud albedo, effects of sulphates on cloud albedo, analogues, and geoengineering risks?	Feingold Rasch
10:30 - 11:00	Break	
11:00-12:00	Current & planned observational capabilities: clouds and albedo	TBD (passive methods) Stephens (active methods)
12:00 - 2:00	Lunch on your own	
2:00-3:00	Student/Post doc presentations (three 20 min each)	Students and Postdocs
2:45-4:15	Break-out discussions - enumerate gaps between knowledge needs and	
4:15-4:45	Break	
4:45-5:30	Plenary Discussion	
6:00 - 8:00	KISS Dinner at the Athenaeum (everyone expected to attend)	

Thursday, May 26, 2011 in Millikan Library - 6th Floor

Time	Event	Speaker
8:30 - 9:00	Coffee and refreshments	
9:00-11:00	Writing time (breakout groups): summarize knowledge needs, capabilities, and gaps per topic area	TBD
11:00-12:00	Plenary synthesis	
12:00 - 2:00	Buffet lunch at the Athenaeum provided by KISS	