



**Next-Generation Approach for Detecting  
Climate-Carbon Feedbacks:  
Space-Based Integration of OCS, CO<sub>2</sub>, and SIF**

**September 18-22, 2017  
Overview Schedule**

**Monday, September 18, 2017  
Salvatori Seminar Room, South Mudd Building (3rd floor) - Caltech**

**Short Course: Next-Generation Approach for Detecting Climate-Carbon Feedbacks  
Introductory Lectures - Open to all interested students, researchers and faculty**

<b>Time</b>	<b>Event</b>	<b>Speaker</b>
8:15 - 8:45	Coffee and Refreshments	
8:45 - 9:00	Logistics / Introduction	Michele Judd Team Lead
9:00 - 9:45	New Tools for Investigating the Carbon Cycle: The Background	Joe Berry
9:45 - 10:30	Remote Sensing of Solar Induced Chlorophyll Fluorescence: The Past, Present and Future	Christian Frankenberg
10:30 - 11:00	Break	
11:00 - 11:45	What Carbonyl Sulfide Teaches us About Earth's Biosphere	Elliott Campbell
11:45 - 12:30	Incorporating Observations of OCS and SIF into Carbon Cycle	Ian Baker
12:30 - 1:30	Short Course Ends: Informal Lunch is provided outside Salvatori Seminar Room	

**Invitation-Only Workshop Begins  
Keck Center - Think Tank, Room 155**

1:30 - 1:45	Walk to Keck Center, pick up badge and welcome packet, find seat in the Think Tank	
1:45 - 2:30	Workshop Logistics and Introduction to KISS	Michele Judd
2:30 - 3:00	Participant Introductions	Michele Judd
3:00 - 3:30	Study Vision and Goals for this Workshop	Team Leads
3:30 - 4:00	Break	
4:00 - 5:00	Finalize study vision and workshop goals via plenary discussion	All
5:15 - 5:30	Solicitation of Lightning Talks	All
5:30 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum	

**Tuesday, September 19, 2017 - Keck Center - Think Tank, Room 155**

<b>Time</b>	<b>Event</b>	<b>Speaker</b>
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 10:00	In situ OCS Measurements and Processes	Roisin Commene
10:00 - 10:30	Remote Sensing of OCS	TBD
10:30 - 11:00	Break	
11:00 - 11:15	Selection of Breakout Groups and Topics	All
11:15 - 12:30	Breakout Groups Meet	Groups
12:30 - 2:00	Group Picture and Lunch at the Athenaeum	
2:00 - 2:45	Report outs from breakout groups (15 mins each)	Groups
2:45 - 3:15	Lightning Talks (2)	TBD by participants
3:15 - 3:30	Selection of Breakout Groups and Topics	All
3:30 - 4:00	Break	
4:00 - 5:30	Breakout Groups Meet	Groups
5:30 - 7:30	POSTER SESSION and Informal food truck dinner at the Keck Center (dinner starts at 6:30 pm)	

### Wednesday, September 20, 2017 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 9:45	Report Outs from Breakout Groups (10 mins each)	Groups
9:45 - 10:30	Relationship between SIF and GPP	Nick Parazoo
10:30 - 11:00	Break	
11:00 - 11:45	Lightning talks (3)	TBD by participants
11:45 - 12:30	Plenary Discussion, Selection of Breakout Groups and Topics	All
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:30	Breakout Groups Meet	All
3:30 - 4:00	Break	
4:00 - 4:45	Report outs from breakout groups (15 mins each)	Groups
4:45 - 5:30	Plenary Discussion on Participant Wants and Needs Selection of Next Day's Breakout Groups	All
5:30	Workshop Day #3 Ends	All
6:00	OPTIONAL: No-Host Dinner in Pasadena (KISS pays for grad students and postdocs)	

**Thursday, September 21, 2017 - Keck Center - Think Tank, Room 155**

<b>Time</b>	<b>Event</b>	<b>Speaker</b>
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 10:00	Multi-Species Data Assimilation System	Kevin Bowman
10:00 - 10:30	Lightning talks (2)	TBD by participants
10:30 - 11:00	Break	
11:00 - 12:30	Breakout Groups Meet	All
12:30 - 2:00	Lunch on your own	
2:00 - 2:30	FREE THINK TIME (individual, or self organizing small groups)	All
2:30 - 3:15	Report outs from breakout groups (15 mins each)	Groups
3:15 - 3:30	Plenary Discussion, Selection of Breakout Groups	All
3:30 - 4:00	Break	
4:00 - 5:30	Break Out Sessions	Groups
5:30	Workshop Day #4 Ends	All
6:00	Dinner at the Athenaeum (with spouses and significant others)	

**Friday, September 22, 2017 - Keck Center - Think Tank, Room 155**

<b>Time</b>	<b>Event</b>	<b>Speaker</b>
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 10:00	Breakout Groups Report Out	All
10:00 - 10:30	Open Discussion of Breakout Group Recommendations and Group Feedback	All
10:30 - 11:00	Break	
11:00 - 12:30	Open Discussion of Breakout Group Recommendations and Group Feedback (continued)	All
12:30 - 1:30	Lunch at the Institute	
1:30 - 2:30	Possible Break Out Groups / Advocacy / Illustrations / Path Forward ?	All
2:30 - 3:30	Outline of Final Report	All
3:30 - 4:00	Break	
4:00 - 4:45	Final Study Activities and Assignments - Group Discussion	All
4:45 - 5:00	Workshop Closeout	Michele Judd
5:00	Workshop Concludes	