



Methane on Mars

**December 7-11, 2015
Overview Schedule**

Monday, December 7, 2015 - Salvatori Seminar Room - South Mudd Building, Caltech

**Short Course: Methane on Mars - The Fundamentals
Introductory Lectures - Open to all interested students, researchers and faculty**

Time	Event	Speaker
8:00 - 8:30	Coffee and Refreshments	
8:30 - 8:40	Logistics / Introduction	Michele Judd Yuk Yung
8:40 - 9:20	Geology: History of Liquid Water on Mars	Bethany Ehlmann
9:20 - 10:00	Biology: Potential Life in the Martian Context	Ken Nealson
10:00 - 10:30	Break	
10:30 - 11:10	Atmospheric Dynamics: Martian Climate History	Michael Mischna
11:10 - 11:50	Atmospheric Chemistry and Methane Measurements	Chris Webster
11:50 - 12:30	Methane Attribution: Biotic and Abiotic Methane Sources and How to Differentiate Them	Barbara Sherwood Lollar
12:30 - 1:30	Informal Lunch Salvatori Patio and End of Short Course	

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

1:30 - 2:00	Walk to Keck Center for Coffee and Registration	
2:00 - 2:45	Workshop Logistics and Introduction to KISS	Michele Judd
2:45 - 3:00	30 second Participant Introductions	Michele Judd
3:00 - 4:00	Vision and goals for the workshop	Team Leads
4:00 - 4:30	Break	
4:30 - 5:30	Begin plenary discussion on workshop format; organize lightning talks	Team Leads
5:30 - 6:00	Pack up and walk to Athenaeum	
6:00	Reception, dinner at the Athenaeum	

Tuesday, December 8, 2015 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Coffee and Refreshments	
8:30 - 8:45	Summary re-cap of day one and goals for day two	Michele Judd Team Leads
8:45 - 10:00	Lightning talks (15 + 5)	TBD
10:00 -10:30	Break	
10:30 - 11:45	Lightning talks (15 + 5)	TBD
11:45 - 12:00	Discussion of Breakout topics	Team leads
12:00 - 2:00	Poster Session and informal food truck dinner at the Keck Center	
2:00 - 2:45	MarsDrop	Robert Staehle Sara Spangelo
2:45 - 4:00	Breakout Groups	All
4:00 - 4:30	Break	
4:30 - 5:30	Breakout Groups	All
5:30 - 6:00	Report outs and Plenary Discussion	All
6:00	Optional no-host dinner in Pasadena (KISS to pay for postdocs and grad students)	

Wednesday, December 9, 2015 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Coffee and Refreshments	
8:30 - 8:45	Logistics; Summary re-cap of day two and goals for day three	Michele Judd Team Leads
8:45 - 9:30	The ACS and NOMAD Instruments onboard the ExoMars Trace Gas Orbiter	Francois Forget
9:30 - 10:00	Lightning talk(s)	TBD
10:00 - 10:30	Break	
10:30 - 11:30	Plenary Discussion and select breakout topics	All
11:30 - 12:30	Brainstorm in small groups	All
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:30	Continue brainstorm in small groups	All
3:30 - 4:00	Break	
4:00 - 4:45	Group report outs	All
4:45 - 6:00	Plenary Discussion and select breakout topics for tomorrow	All
6:00	Optional no-host dinner in Pasadena (KISS to pay for postdocs and grad students)	

Thursday, December 10, 2015 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Coffee and Refreshments	
8:30 - 8:45	Logistics: Summary re-cap of daythree and goals for day four	Michele Judd Team Leads
8:45 - 10:00	Lightning talks and determine new breakout group makeup	
10:00 -10:30	Break	
10:30 - 12:30	Breakouts	
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:00	Plenary report out of breakout groups	
3:00 - 4:00	Plenary discussion of what remains to be done before the end of the workshop	
4:00 - 4:30	Break	
4:30 - 5:45	Small group/ individual working session	
6:00	Dinner at the Athenaeum - spouses, significant others welcome	

Friday, December 11, 2015 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Coffee and Refreshments	
8:30 - 8:45	Logistics and Objectives	Michele Judd Team Leads
8:45 - 10:00	Final plenary discussion	
10:00 - 10:30	Break	
10:30- 11:30	Report out and finalization of interim topics of study	Study leads
11:30 - 12:00	Action plan for interim session - what needs to happen by September?	Study leads
12:00 - 12:30	Workshop closeout	Michele Judd
12:30	END of workshop	