



**Cryogenic Comet Sample Return –
Compelling New Science vs. Technological Challenges**

**June 5-8, 2017
Overview Schedule**

Monday June 5, 2017 - Salvatori Seminar Room, South Mudd Building (3rd floor) - Caltech

**Short Course: Comets - Connecting the Origins of Solar Systems to the Origins of Life
Introductory Lectures - Open to all interested students, researchers and faculty**

Time	Event	Speaker
8:15 - 8:45	Coffee and Refreshments	
8:45 - 9:00	Logistics / Introduction	Michele Judd Team Lead
9:00 - 9:45	Deciphering the Rosetta Stone: What 67P Tells Us About the Origin and Evolution of Our Solar System	Kathrin Altwegg
9:45 - 10:30	From Kuiper Belt to Comet	David Jewitt
10:30 - 11:00	Break	
11:00 - 11:45	Protoplanetary Disks and Cometary Precursors	Geoff Blake
11:45 - 12:30	Morphology and Geology of Short-Period Comet 67P/Churyumov-Gerasimenko	Bjorn Davidsson
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 - 4:30	Finalize study vision and workshop goals via plenary discussion	Team Leads
4:30 - 5:15	Present Understanding of Comet Nucleus Physical and Chemical Composition	Murthy Gudipati
5:15 - 5:45	Solicitation of Lightning Talks	Team Leads
5:45 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner on the lawn at the Athenaeum	

Tuesday, June 6, 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 - 10:00	Technology Challenges and Readiness Levels for Cryogenic Comet Nucleus Sample Return Missions	Paul Backes
10:00 - 10:30	Lightning Talks (2)	TBD by participants
10:30 - 11:00	Break	
11:00 - 11:30	Selection of Breakout Groups and Topics	All
11:30 - 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 - 3:30	Lightning Talks (3)	TBD by participants
3:30 - 4:00	Break	
4:00 - 4:15	Selection of Breakout Groups and Topics	All
4:15 - 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, June 7, 2017 - Keck Center - Think Tank, Room 155

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	Comet Subsurface Ice Composition: Amorphous, Crystalline, or Clathrate?	Multiple speakers
10:30 - 11:00	Break	
11:00 - 11:15	Lightning talks (1)	TBD by participants
11:15 - 11:30	Selection of Breakout Groups and Topics	All
11:30 - 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 - 3:30	Breakout Groups Meet (continued)	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, selection of final breakout groups	All
5:30	Pack up and walk to Athenaeum	All
6:00	Dinner at the Athenaeum (with spouses and significant others)	

Thursday, June 8, 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 - 10:30	Breakout Groups	All
10:30 - 11:00	Break	
11:00 - 12:30	Breakout Groups	All
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:30	Open Discussion of Breakout Group Recommendations and Group Feedback	All
3:30 - 4:00	Break	
4:00 - 4:45	Interim study activities and assignments - Group Discussion	All
4:45 - 5:00	Workshop Closeout	Michele Judd
5:00	Workshop Concludes	