



**Cryogenic Comet (and Centaur) Sample Return:  
Compelling New Science vs. Technological Challenges – Part II**

**October 31 - November 3, 2017  
Overview Schedule**

**Tuesday, October 31, 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	Registration, Coffee and Refreshments at Keck Center	
9:00 - 9:30	Workshop Logistics	Michele Judd
9:30 - 9:45	Participant Lightning Introductions	All
9:45 - 10:15	Summary of Outcomes from the first workshop	Team Leads
10:15 - 10:30	Desired Outcomes of the second workshop	Team Leads
10:30 - 11:00	Break	
11:00 - 12:30	Report outs from Assignments	All
12:30 - 2:00	Group Picture and Lunch at the Athenaeum	
2:00 - 3:30	Set-up Stage for two mission scenarios: 1. Cryogenic Comet Sample Return 2. Cryogenic Centaur Sample Return	Groups
3:30 - 4:00	Break	
4:00 - 5:30	Continue work on two mission scenarios	Groups
5:30 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum	

### Wednesday, November 1, 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, Recap of Day 1 and presentation of Day 2 marching orders	Michele Judd and Team Leads
9:15 - 10:30	Breakout groups on Cryogenic COMET Sample Return Mission – Narrow the tradespace (a) Depth of Sampling, (b) Temperature of Returned Sample, (c) Quantity of the Ice Sample, (d) Engineering Scenarios for each of the above three, (e) Spacecraft Requirements (RTG vs. Solar Powered) (f) Re-entry g-loading/transients and sampling	All
10:30 - 11:00	Break	
11:00 - 11:30	Report of working groups to the workshop community and feedback on nascent ideas	Groups
11:30 - 12:30	Breakout groups continue	All
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:30	Report of working groups to the workshop community	Groups
3:30 - 4:00	Break	
4:00 - 5:00	Breakout groups continue	All
5:00 - 5:45	Report of working groups to the workshop community	Groups
5:45 - 6:00	Pack up and drive to dinner in Pasadena	All
6:00	OPTIONAL No-host dinner in Pasadena (KISS pays for grad students and postdocs)	

**Thursday, November 2, 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, Recap of Day 2 and presentation of Day 3 marching orders	Michele Judd and Team Leads
9:15 - 10:30	Breakout groups on Cryogenic CENTAUR Sample Return Mission – Narrow the tradespace (a) Depth of Sampling, (b) Temperature of Returned Sample, (c) Quantity of the Ice Sample, (d) Engineering Scenarios for each of the above three, (e) Spacecraft Requirements (RTG vs. Solar Powered) (f) Re-entry g-loading/transients and sampling	All
10:30 - 11:00	Break	
11:00 - 11:30	Report of working groups to the workshop community	Groups
11:30 - 12:30	Breakout groups continue	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	Report of working groups to the workshop community	Groups
3:30 - 4:00	Break	
4:00 - 5:00	Breakout groups continue	All
5:00 - 5:45	Report of working groups to the workshop community	Groups
5:45 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum (with spouses and significant others)	

**Friday, November 3, 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, Recap of Day 3 and presentation of Day 4 marching orders	Michele Judd and Team Leads
9:15 - 10:30	Summarize findings	All
10:30 - 11:00	Break	
11:00 - 12:30	Summarize unresolved issues	All
12:30 - 1:30	Informal lunch in the Institute	
1:30 - 3:30	Draft White Papers for both the Cryogenic Sample Return Missions	All
3:30 - 4:00	Break	
4:00 - 4:45	Discussion of possible illustrations Advocacy Plan	All
4:45 - 5:00	Workshop Closeout	Michele Judd
5:00	Workshop Concludes	