



Enabling Fast Response Missions to NEOs, ISOs, and LPCs

October 24 - 28, 2022
Overview Schedule

Monday, October 24, 2022
The Think Tank - Keck Center 155 - Caltech

Short Course: Rapid Response Space Missions to Small Celestial Bodies

Time	Event	Speaker
7:30 - 8:15	Institute opens early for workshop check in, SHOW PROOF OF VACCINATION, take your rapid test, affirm you are not symptomatic nor have had contact with anyone who is, pick up badge and welcome packet, find seat in the Think Tank	
8:15 - 8:45	Enjoy coffee and breakfast in the Keck Center courtyard	
8:45 - 9:00	Logistics / Introduction	Michele Judd Team Lead
9:00 - 9:45	ISO, LPC, and NEO Science	Karen Meech
9:45 - 10:30	Importance of ISOs, LPCs, and NEOs to NASA and the Decadal Survey	Carol Raymond
10:30 - 11:00	Break	
11:00 - 11:45	The Importance and Challenges of Rapid Response	Kimee Moore
11:45 - 12:30	Rapid Response Today - Comet Interceptor	Geraint Jones
12:30 - 2:00	Short Course Ends: Walk to Athenaeum for lunch	

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

2:00 - 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	Team Leads
5:15 - 5:30	Solicitation of Lightning Talks	Team Leads
5:30 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum	

Tuesday, October 25, 2022 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME Check in, affirm you are not symptomatic nor have had contact with anyone who is	
8:30 - 9:00	Enjoy coffee and breakfast in the Keck Center courtyard	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 9:45	Special Talk Topic #1: Detection and Characterization of Small Bodies - Current and Future Capabilities	Joe Masiero
9:45 - 10:00	Discussion	All
10:00 - 10:30	Special Topic #2: Critical Elements in Developing a Science Mission	Julie Castillo-Rogez
10:30 - 10:45	Discussion	All
10:45 - 11:15	Break	
11:15 - 11:30	Selection of Breakout Groups and Topics - What adaptations does your domain need to make to accommodate rapid response?	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 - 3:15	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 - Build a flow able of critical activities to develop a mission	Groups
5:30 - 7:30	POSTERish SESSION and Informal food truck dinner at the Keck Center (dinner starts at 6:30 pm)	

Wednesday, October 26, 2022 - Keck Center - Think Tank, Room 155

8:00 - 8:30	Institute Opens - FREE THINK TIME Take your rapid test if you did not take it in your hotel or at home , check in, affirm you are not symptomatic nor have had contact with anyone who is	
8:30 - 9:00	Enjoy coffee and breakfast in the Keck Center courtyard	
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 - 10:15	Special Topic #2 Talk: What Makes a Small Body Compelling?	Paul Chodas
10:15 - 10:30	Discussion	All
10:30 - 11:00	Break	
11:00 - 11:30	Special Topic #3 Discussion: Rapid Response Architectures	All
11:30 - 11:45	Discussion	All
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: What additional architectures can we identify? How quickly can we proceed from detection to launch under different architectures? Based on the flow chart designed yesterday, what is the critical path, or incompressible set of activities, that must take place after detection?	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	

Thursday, October 27, 2022 - Keck Center - Think Tank, Room 155

8:00 - 8:30	Institute Opens - FREE THINK TIME Check in, affirm you are not symptomatic nor have had contact with anyone who is	
8:30 - 9:00	Enjoy coffee and breakfast in the Keck Center courtyard	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 10:00	Special Topic #4 Talk/Discussion: How do we decide whether or not a target, after detected, is worthy of a dedicated mission? Science, engineering, programmatic	All
10:00 - 10:30	Lightning talks (2)	TBD by participants
10:30 - 11:00	Break	
11:00 - 12:30	Breakout Groups Meet: What changes do we need to make to our current way of doing business to enable these architectures? Who needs to make these changes and what can we do today to get the ball rolling?	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: Develop a list of critical enabling activities including process development, technology development, or partnership development, for the top architectures.	Groups
5:30	Workshop Day #4 Ends	All
6:00	Dinner at the Athenaeum	

Friday, October 28, 2022 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME Check in, affirm you are not symptomatic nor have had contact with anyone who is	
8:30 - 9:00	Enjoy coffee and breakfast in the Keck Center courtyard	
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 Path Forward to the final report	All
10:30 - 11:00	Break	
11:00 - 12:15	Create a schedule of events to enable a future rapid response mission. What do we need to do today so that the next time an ISO, LPC, or NEO is discovered, we will be able to respond?	All
12:15 - 1:30	Working Lunch	
1:30 - 3:00	Create a list of action items for individuals within the group, develop writing assignments for the final report	All
3:00 - 3:15	Workshop close out	Michele Judd
3:15 - 5:00	INFORMAL WORKSHOP SMALL GROUP COLLABORATION TIME or WRITING TIME	
5:00	Institute Closes	