



**Large Constellations and Formations for
Exploring Interstellar Objects and Long-Period Comets**

**October 29 - November 2, 2018
Overview Schedule**

**Monday, October 29, 2018
Salvatori Seminar Room, South Mudd Building (3rd floor) - Caltech**

Short Course: Exploring Once-in-a-Lifetime Targets
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	Fantastic Targets and How to Find Them	Olivier Hainaut
9:45 - 10:30	Getting Close to Long-Period Objects - Lessons Learned from Past Missions	Hope Ishii
10:30 - 11:00	Break	
11:00 - 11:45	Small but Powerful - State of the Art in Small Flight Systems	Kristina Hogstrom
11:45 - 12:30	Stronger Together - Coordination Among Spacecraft for Novel Exploration Strategies	Soon-Jo Chung
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	Team Leads
5:00 - 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 30, 2018 - 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 <i>Science definition, objective prioritization, and key science-driven requirements</i>	Michele Judd and Team Leads
9:15 - 10:00	The Science of Long-Period Comets and Interstellar Objects	Karen Meech
10:00 - 10:30	Lightning Talks (2)	TBD by participants
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, October 31, 2018 - 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 <i>Payload definition, key requirements on flight system and mission design</i>	Michele Judd and Team Leads
9:15 - 9:45	Report Outs from Breakout Groups (10 mins each)	Groups
9:45 - 10:30	Instrumentation for Small Spacecraft, A Review of the State of the Art Emerging Technologies	Julie Castillo-Rogez
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 - 6:15	Tour of Soon-Jo Chung's Lab (walk to lab, 30 minute tour)	All
6:15	Workshop Day #3 Ends	
6:30	OPTIONAL: No-Host Dinner in Pasadena	

Thursday, November 1, 2018 - 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 <i>Development of a Portfolio of Mission Concepts (Prioritized)</i>	Michele Judd and Team Leads
9:15 - 10:00	Coordinated spacecraft architectures	Soon-Jo Chung + TBD
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, November 2, 2018 - 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 - 9:10	Logistics and Team Lead Goals for the Day <i>Identifying Technology Gaps and Way Forward</i>	Michele Judd and Team Leads
9:10 - 9:40	Breakout Groups Report Out	All
9:40 - 10:30	Open Discussion of Breakout Group Recommendations	All
10:30 - 11:00	Break	
11:00 - 11:30	Outline of Final Report	All
11:30 - 12:30	WRITING SESSION: Prioritized Key Points for Each Section of Final Report	All
12:30 - 1:30	Lunch at the Institute	
1:30 - 2:00	GAPS: What was missed in the final report sections?	All
2:00 - 3:00	Break Out Groups / Advocacy / Illustrations / Key Take Away Material	All
3:00 - 3:30	Report outs	All
3:30 - 4:00	Break	
4:00 - 4:45	Final Study Activities and Assignments	All
4:45 - 5:00	Workshop Closeout	Michele Judd
5:00	Workshop Concludes	