



Accessing the Subsurface Oceans of Icy Worlds

October 9-12, 2017
Overview Schedule



**Monday, October 9, 2017 - Salvatori Seminar Room
South Mudd Building (3rd floor) - Caltech**

**Short Course
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	Earth-Europa-Enceladus: Ocean/Rock Interactions and Prospects for Life (30 minute talk, 15 minutes Q & A)	Christophe Sotin
9:45 - 10:30	Structure and Thickness of Europa's Ice Shell: What We Think We Know and What We Hope to Learn from the Europa Clipper (30 minute talk, 15 minutes Q & A)	Louise Prockter
10:30 - 11:00	Break	
11:00 - 11:45	Challenges in Designing a Mission that Travels through Europa's Crust: Deployment, Operations, Communication (30 minute talk, 15 minutes Q & A)	Tom Cwik
11:45 - 12:30	Lessons Learned from Drilling through the Antarctic Ice Sheet: The WISSARD and SALSA Subglacial Lake Projects (30 talk, 15 minutes Q & A)	John Priscu and Dennis Duling
12:30 - 1:15	Short Course Ends: Informal Lunch is provided outside Salvatori Seminar Room	

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

1:15 - 1:30	Walk to Keck Center, pick up badge and welcome packet, find seat in the Think Tank	
1:30 - 2:15	Workshop Logistics and Participant Introductions	Michele Judd
2:15 - 2:45	Study Vision and Goals, Including Resource Constraints for the System	Curt Niebur
2:45 - 4:15	Brainstorming Session – Characteristics of the System and Solicitation of Lightning Talks	Tom Cwik / All
4:15 - 4:45	Break	
4:45 - 6:00	Lightning Talks - (20 minutes at the end to revisit the characteristics of the system based on the lightning talks)	Curt Niebur - moderator
6:15	Dinner at the Athenaeum	

Tuesday, October 10, 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	
Special Topic Area: Penetration Techniques		
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Michele Judd and Team Leads
9:15 - 9:45	Melt Probe and Water Jetting	Bill Stone
9:45 - 10:15	Drilling	Kris Zacny
10:15 - 10:45	Break	
10:45 - 11:15	Using Natural Faults	Alyssa Rhoden
11:15 - 11:45	Other Ideas to Get Into the Ocean	All
11:45 - 12:30	Plenary Session on Pros and Cons of Each Technique and How Compatible They Are Against Characteristics Defined on Day 1	All
12:30 - 2:00	Group Picture and Lunch at the Athenaeum	
2:00 - 3:15	Plenary Session on Pros and Cons of Each Technique and How Compatible They Are Against Characteristics Defined on Day 1 <i>continued</i>	All
3:15 - 3:45	Lightning Talks on critical issues identified previously	TBD
3:45 - 4:15	Break	
4:15 - 5:00	Lightning Talks	TBD
5:00 - 5:30	Plenary Discussion	TBD
5:30 - 7:30	POSTER SESSION posters address one aspect of the access to icy moons' oceans whether it is technology, instrument, science - possibility of whiteboards with one question - and Informal food truck dinner at the Keck Center (dinner starts at 6:30 pm)	

Wednesday, October 11, 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 - 10:15	Revisit Characteristics of the System Based on Lightning Talks	All
9:45 - 10:30	Lightning Talks or Breakout Session Set Up	TBD
10:30 - 11:00	Break	
11:30 - 12:30	Lightning Talks or Breakout Groups Meet	TBD
12:30 - 2:00	Lunch at the Athenaeum	
2:00 - 3:00	Delta Europa to Enceladus	Alyssa Rhoden
3:00 - 4:00	Delta Europa to Titan	Christophe Sotin
4:00 - 4:30	Break	
4:30 - 6:00	Formulate Performance Goals	Curt Niebur / All
6:30	Dinner at the Athenaeum	

Thursday, October 12, 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 - 10:45	Plenary Session – Write requirements document – Give writing assignments for report assignments on missing pieces that need to be covered to complete the document – Synthesis on technics, pros and cons, and potential showstoppers	Moderated by Christophe Sotin
10:45 - 11:15	Break	
11:15 - 1:00	Presentation of the report followed by a writing session around the requirement document	All
1:00	Workshop Ends	