



The Biology of Biosignature Detection

**July 17-21, 2023
Overview Schedule**

**Monday, July 17, 2023
Sharp Lecture Hall - Arms Building (Building #25) - Caltech**

**Short Course: Parameters of Biological Validation
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	KISS and Team Leads
9:00 - 9:45	Microbial Energy Sources and Subsurface Life	Karen Lloyd
9:45 - 10:30	Proof of Microbial Life: Geobiology in Planetary Analog systems	Frank Corsetti
10:30 - 11:00	Break	
11:00 - 11:45	Extreme Environment Microbiology in Ices	Christine Foreman
11:45 - 12:30	Understanding Astrobiological False Positives from Terrestrial Microbiology	Martin Homann
12:30 - 1:30	Short Course Ends: Informal Lunch is provided outside short course location	

**Invitation-Only Workshop Begins
Keck Center - Think Tank, Room 155 - Building # 127**

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	Bethany Ehlmann Janet Seid
2:30 - 3:00	Participant Introductions	KISS
3:00 - 3:30	Study vision and goals for this workshop	Team Leads
3:30 - 3:35	What to think about during the break...	KISS
3:35 - 4:05	Break	
4:05 - 5:15	Finalize study vision and workshop goals via plenary discussion	Team Leads
5:15 - 5:30	Solicitation of Lightning Talks	Team Leads
5:30 - 5:45	Team leads tag up with KISS (study vision goals)	KISS/Team Leads
5:30 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum	

Tuesday, July 18, 2023 - 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	KISS and Team Leads
9:15 - 10:00	Special Talk Topic: Agnostic Chemical Biomarkers	Kathy Bywaters
10:00 - 10:30	Lightning Talks (2)	All
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)	All
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 - 5:45	Team leads tag up with KISS (study vision goals)	KISS/Team Leads
5:30 - 7:30	POSTER SESSION and Informal food truck dinner at the Keck Center (dinner starts at 6:30 pm)	

Wednesday, July 19, 2023 - 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	KISS / Team Leads
9:15 - 9:45	Report Outs from Breakout Groups (10 mins each)	Groups
9:45 - 10:30	Lightning talks (3)	TBD by Participants
10:30 - 10:35	What to think about during the break (one positive outcome, one outcome to shoot for by Friday)	KISS
10:35 - 11:05	Break	
11:05 - 11:45	Individual pulse on how the workshop is proceeding and what still needs to happen	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	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 - 5:45	Study Vision and Goals check in	All
5:45	Workshop Day #3 Ends	
5:45 - 6:00	Team leads tag up with KISS (study vision goals)	KISS/Team Leads
6:00	OPTIONAL: No-Host Dinner in Pasadena	

Thursday, July 20, 2023 - 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	KISS / Team Leads
9:15 - 10:00	Discussion on convergence of Goal 1 and Goal 2	All / Team Leads
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 - 5:45	Check in on Study Vision and Goals	KISS
5:45	Workshop Day #4 Ends	All
5:45 - 6:00	Team leads tag up with KISS (study vision goals)	KISS/Team Leads
6:00	Dinner at the Athenaeum	

Friday, July 21, 2023 - 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	KISS / Team Leads
9:15 - 10:00	Breakout Groups Report Out	All
10:00 - 10:30	Open Discussion: Stakeholders & Venues for Sharing	All
10:30 - 11:00	Break	
11:00 - 12:00	What we achieved this week	All
12:00 - 12:30	Path forward to the Second Workshop	Team Leads
12:30 - 1:15	Informal lunch at Institute	
1:15 - 2:30	Major Products Development	Team Leads / All
2:30 - 3:00	Writing Assignments for each topic	Team Leads / All
3:00 - 3:30	Break	
3:30 - 4:50	Developing Goals 3 and 4 (2024)	Team Leads / All
4:50 - 5:00	Workshop Closing	Janet Seid
5:00	Workshop #1 Concludes	