

	Monday (7/22)	Tuesday (7/23)	Wednesday (7/24)	Thursday (7/25)	Friday (7/26)
6:30 am	Arrive	Breakfast (at hotel)	Breakfast (at hotel)	Breakfast (at hotel)	Breakfast (at hotel)
8:30 am		Session 1 (8:30 am - 9:45am)	Session 3 (8:30 am - 10:05am)	Field Trip Timpanogos Cave (9:00am - 4:00pm)	Depart
9:45 am		Break			
10:05 am		Session 1 continued (10:05 am - 10:45am)	Break		
10:25 am			Session 3 continued (10:25am - 11:45am)		
10:45 am		Lightning Talks			
11:00 am		SciCom Panel (11:00am - 12:00pm)	Lightning Talks		
11:45 am			Lunch		
12:00 pm		Lunch + Work Shop (12:00pm - 1:30pm)	Session 4 (1:00pm - 2:15pm)		
1:00 pm			Break		
1:30 pm		Session 2 (1:30pm - 2:45pm)	Session 4 continued (2:35pm - 3:55pm)		
2:15 pm		Break			
2:35 pm		Session 2 continued (3:05pm - 4:25pm)	POSTER SESSION 2 (4:05pm - 6:30pm)		
2:45 pm			Dinner		
3:05 pm		POSTER SESSION 1 (4:35pm - 7:00pm)	Closing Reception NHMU (6:00pm - 10:00pm)		
4:05 pm	Dinner				
4:35 pm	Outreach (8:30pm - 10:00pm)				
6:00 pm					
6:30 pm	Opening Reception Officer's Club (6:00pm - 10:00pm)	Triva/Game night (7:30pm - 10:00pm)			
7:00pm					
8:30 pm					
10:00 pm					

Tuesday (7/23)	
6:30 - 8:30	Breakfast
8:30 - 8:45	Session 1 Warm Up ( <b>Andrew Burkhardt</b> )
8:45 - 9:05	Formation and Destruction of Molecules in the Atmosphere of Titan ( <b>Aline Ramos Ribeiro</b> )
9:05 - 9:25	Measuring the Rotational Spectrum of Aminomethanol for Comparison to Radio Telescope Data ( <b>Hayley A. Bunn</b> )
9:25 - 9:45	A Study of a Lifeless Archean Earth as an Analog for Abiotic Terrestrial Exoplanets ( <b>Ryan Felton</b> )
9:45 - 10:05	Break
10:05 - 10:25	Reported organic chemistry on Enceladus supports Origin of Life in a Lipid-World scenario ( <b>Amit Kahana</b> )
10:25 - 10:45	Choosing a Maximum Drift Rate in a SETI Search: Astrophysical Considerations ( <b>Sofia Sheikh</b> )
10:45 - 11:00	Poster Lightning Talks
11:00 - 11:25	SciCom Panel
11:25 - 11:45	
11:45 - 12:00	
12:00 - 1:00	Lunch+WkShop
1:00 - 1:15	
1:15 - 1:30	
1:30 - 1:45	Session 2 Warm Up ( <b>Rebecca Rapf</b> )
1:45 - 2:05	Emergence of Chiral Asymmetry in Biochemical Networks through the Transition from Non-life to Life ( <b>John Malloy</b> )
2:05 - 2:25	Towards a novel planetary biosignature: In-situ isotopic and elemental analysis of pyrite ( <b>Maria C. Figueroa</b> )
2:25 - 2:45	Evaluating $\delta^{15}N$ as a pH Proxy for High-pH Closed-basin Lacustrine Systems ( <b>Christopher Tino</b> )
2:45 - 3:05	Break
3:05 - 3:25	Peptide formation via astronomical delivery on pre-biotic surfaces ( <b>Amy LeBleu-DeBartola</b> )
3:25 - 3:45	Identity and Biogenesis of CoA linked RNA ( <b>Krishna Sapkota</b> )
3:45 - 4:05	Assembly of Membraneless Polyester Microdroplet Compartments Synthesized From Alpha Hydroxy Acids Under Plausible Prebiotic Conditions ( <b>Tony Z. Jia</b> )
4:05 - 4:25	Unevolved De Novo Proteins Have Innate Tendencies to Bind Transition Metals ( <b>Michael Wang</b> )
4:35 - 7:00	POSTER SESSION 1
7:00	Dinner
8:30 - 10:00	Outreach

Wednesday (7/24)	
6:30 - 8:30	Breakfast
8:30 - 8:45	Session 3 Warm Up ( <b>H. Lizethe Pendleton</b> )
8:45 - 9:05	Metagenomic Profiling of the Methane-Rich Anoxic Basin of Lake Untersee as an Ocean Worlds Analog ( <b>Nicole Wagner</b> )
9:05 - 9:25	Low-pressure adapted <i>Bacillus subtilis</i> exhibit upregulated expression of antibiotic biosynthesis, biofilm- and cell wall-associated genes ( <b>Joshua Leehan</b> )
9:25 - 9:45	Growth temperature of the last common ancestor of a deeply-branching bacterial lineage ( <b>Anne Farrell</b> )
9:45 - 10:05	Understanding the biospace: large-scale survey and classification of halophilic microorganisms ( <b>Ana Paula Muche Schiavo</b> )
10:05 - 10:25	Break
10:25 - 10:45	Real-time Autonomous Instrumentation for Lab-based Microbe Experimental Evolution ( <b>Chinmayee Govinda Raj</b> )
10:45 - 11:05	Application of capillary electrophoresis to monitor meteorite simulant bioleaching by <i>Acidithiobacillus ferrooxidans</i> ( <b>Gabriel Gonçalves Silva</b> )
11:05 - 11:25	Phylogenetic history of scytonemin biosynthesis proteins ( <b>Erik Tamre</b> )
11:25 - 11:45	Greenhouse gases as potential biomarkers for microbial activity in underground environments ( <b>Adrian Barry-Sosa</b> )
11:45 - 12:00	Poster Lightning Talks
12:00 - 1:00	Lunch
1:00 - 1:15	Session 4 Warm Up ( <b>Amber Britt</b> )
1:15 - 1:35	Groundwater upwelling and redox-based habitability within Gale crater lake on early Mars ( <b>Natsumi Noda</b> )
1:35 - 1:55	Atmospheric Ammonia: Modelling Archean Biogeochemistry ( <b>Julia Horne</b> )
1:55 - 2:15	1D Exoplanet Habitability: Now in Technicolor! ( <b>Jack Madden</b> )
2:15 - 2:35	Break
2:35 - 2:55	Detecting a population of planets around Kepler's faintest stars ( <b>Pedro Henrique Nogueira</b> )
2:55 - 3:15	Measuring the atmospheres of extrasolar planets from the ground with Palomar/WIRC ( <b>Shreyas Vissapragada</b> )
3:15 - 3:35	Dying to Live: Post-Main Sequence Habitability ( <b>Thea Kozakis</b> )
3:35 - 3:55	The Search for Habitable Worlds: An Astroecology Model for Characterizing Exoplanet Habitability ( <b>Alma Y. Ceja</b> )
4:05 - 6:30	POSTER SESSION 2
6:30	Dinner
8:00 - 10:00	Triva/Game night

Tuesday (7/23)	
POSTER SESSION 1	
Roberta Almeida Vincenzi	Siderite as an unexplored growth substrate for the extreme acidophilic bacterium <i>Acidithiobacillus ferrooxidans</i>
Iskinder Arsano	Molecular Dynamics Computer Simulations of Primitive Polymerization in Clay Channels
Sandra Bastelberger	A hot early Earth? Assessing Archean and Proterozoic temperature history under different geological constraints.
Jennifer Berry	Gas-phase Organic Chemistry in Exoplanet Atmospheres and Implications for Haze Formation
Amber Britt	Simulated Exoplanet Observations with HabEx and LUVOIR: Preparing the Hunt for Biosignatures
Kunmanee Bubphanee	Carbon isotope fractionation by cyanobacteria under light-limiting conditions
Vasanta Chivukula	Propensity of amino acids in ribosomal proteins
Ellen Costa de Almeida	Atmospheric Parameters and Ages of M-Dwarfs in the Solar Neighborhood
Ebrahim Emami	Increasing the Resolution of Planetary Images using Artificial Intelligence: Small Crater Detection Case Study
Raquel Farias	Search for exoplanets with potential to host life
Jessica Frankle	Constraining the water flux through a serpentinite-hosted hydrothermal vent field
Isabella Gaião da Silva	Growth of halophiles from Lagoa Vermelha, Brazil, at high concentrations of MgSO <sub>4</sub> simulating Martian environments
Narangerei Ganbaatar	Nano spectroscopic approaches to the Origins of Life: A Model for Prebiotic Accumulation of Amino Acid Oligomers on a Mineral Surfaces
Claire Geneser	Evaluating the Significance of Spin-Orbit Misalignment in Hot Jupiter Systems
Andrea Halling	Snowball Earth: The Effect of Viscosity on the Multicellularity of <i>Chlamydomonas reinhardtii</i>
Jordyn Lucas	Functional or fashionable? Exploring the role of coenzyme A-linked transcripts
Dylan Mankel	Chemical Gradients at the Lost City Hydrothermal Field: an Analog for Icy-Moons
H. Lizethe Pendleton	Tracking Contamination in Subseafloor Rock Cores
Petar Penev	New alignment score for studying ancestry of ribosomal proteins
Anais Roussel	Preservation of Organic Molecules on the Irradiated Martian Surface
Kenneth Seaton	Determining Molecular Biomarker Survivability in Enceladus Plume Capture Conditions using Laser-Induced Particle Impact Testing
Monica Vidaurri	Science Shaping International Law: The Need for a Policy Approach to Exploration
Connor Wright	Extending the Laboratory Millimeter/Sub-millimeter Spectrum of Interstellar Glycine Precursor Protonated Formaldehyde
Farzaneh Zohrabi	Companion Search Using MagAO data

Wednesday (7/24)	
POSTER SESSION 2	
Seyedsaeid Ahmadvand	The Authentic Reality
Osama Alian	Modeling Habitability at the Rock-Water Interface
Adrian Broz	Organic matter preservation in clay-rich environments of Earth and Mars
Andrew Burkhardt	Using Shock Chemistry to Probe Interstellar Ice Chemistry
Jacob Cosby	Searching for Life-Like Chemical Systems under Prebiotic Conditions
Jameson D'Amato-Faulkner	TBD
Sean Gosselin	Elucidating Early Life Evolution via Protein Structure Comparison
Mojhgan Haghnegahdar	First-principles Models of Equilibrium Tellurium Isotope Fractionation
Jay Kroll	Spectral Analysis of a Methylamine and Ozone Mixture: A Study to Aid in the Detection of Glycine Precursors in the Interstellar Medium
Matthew Lehmitz	Letting the sun in - Plants grown under natural sunlight and artificial gravity.
Aaron Mau	Hydrothermal H <sub>2</sub> generation and export footprint at the Atlantis Massif
Kathleen Miller	Investigating Growth, Global Gene Transcription, and Epigenetic Responses to Pressure Extremes in <i>Carnobacterium</i> Species
Amir Mirzanejad	Formation of Amide Molecules in the Interstellar Medium: Computational Modeling
Nathan Reed	Planetary Organic Haze: Evolution, Habitability, and Biosignatures
Tyler Roche	Prebiotic Relevance
Luke Steller	Boron isotopes in the Puga geothermal system, India, and their implications for the habitat of early life
Scot Sutton	Microbial Population and Distribution at a Mars Analog Alluvial Plain Dyngjussundur, Iceland 2016
Jennifer Thweatt	Extreme Phototrophs and Where to Find Them: Reviewing Earth Organisms and Analogs for Astrobiology
Lena Vincent	A Candidate Self-Propagating System Enriched by Chemical Ecosystem Selection
Hannah Woodward	Viking GCMS data restoration and digitization
Azarin Yazdani	Adaptive Evolution of Bacteria to High Salinity
Katarina Yocum	Laboratory Submillimeter Spectroscopic Analysis of Desorbed Interstellar and Cometary Ices