



The Habitability of Hydrocarbon Worlds: Titan and Beyond

Annual in-person meeting

January 9-10, 2020

Co-sponsored by the Keck Institute for Space Studies (KISS)

WebEx information:

Meeting number (access code): 908 117 846

Join by phone

+1-510-210-8882 USA Toll

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(please see Outlook invitation for link)

Thursday Jan 9

11:30 am	Joint lunch at the Athenaeum with the ExOW team 551 S Hill Ave, Pasadena, CA 91106 (corner of Hill Ave and California Ave) https://www.athenaeumcaltech.com	
1 pm	Welcome and logistics	R Lopes and M. Judd
1:15 pm	Overview of progress, meeting objectives Annual report	R Lopes
1:30 pm	NOW overview	Mike Malaska
1:45 pm	KISS ties to our study	Christophe Sotin
2:00 pm	Objective 1 overview	Steve Vance
2:15 pm	Inv. 1.2: transport on surface “Eroding Titan”	Sam Birch
2:30 pm	Inv. 2.1: surface composition	Anezina Solomonidou
2:45 pm	A co-crystal between acetylene and butane	Morgan Cable

3:00 pm	Coffee Break	
3:15 pm	Inv. 1.3: surface to ocean	Klara Kalousova and Christophe Sotin
3:30 pm	Inv. 1.4: Habitats via molecular transport	Steve Vance
3:45 pm	Objective 3 overview/reports	Judy Malas and Olivier Bollanger
4:30 pm	discussion/spillover time	
5:00 pm	Adjourn	
6:30 pm	Group dinner: Café Santorini, 64 W Union St, Pasadena, CA 91103 http://cafesantorini.com	

Friday Jan 10

8:30 am	Coffee	
8:45 am	Introduction to Investigation 1.1 and Status Update - Claire Newman	
9:00 am	Latest Chemistry Results from ALMA	Conor Nixon
9:15 am	The Temporal Variability of Titan's Atmosphere During Northern Summer	Alexander Thelen
9:30 am	Break	
9:45 am	Working Towards an Integrated Dynamics Model for Titan [Ingo Müller-Wodarg et al. (presented by Claire)]	
10:00 am	Objective 2 overview	Rob Hodyss
10:15 am	Inv. 2.1: ocean habitats Further insights into deep carbon and nitrogen geochemistry on Titan and beyond	Chris Glein/Kelly Miller
10:30 am	Inv. 2.1: Ocean habitats Modeling Binary Mixtures of Water + Light Hydrocarbon	Sugata Tan

10:45 am	Inv. 2.2: oceanic organic alteration	Rob Hodyss
11:00	TBD title	Baptiste Journaux
11:15	TBD title	J. Michael Brown
11:30	Discussion/spillover time	
12 noon	Lunch	
1:15 pm	Objective 4 overview/plans	Sarah Fagents
1:30 pm	A carbonaceous chondrite and cometary origin for Titan	Christophe Sotin
1:45 pm	The brittle-ductile transition depth in Titan's ice shell (tentative title)	Lauren Schurmeier
2:00 pm	Strike-slip faulting on Titan? Modeling shear failure conditions due to pore-fluid interactions	Liliane Burkhard
2:15 pm	Inv. 4.2: molecular alteration	Rob Hodyss
2:30 pm	Inv. 4.3 molecular transport	Steve Vance
	Others?	
3:00 pm	Coffee Break	
3:15 pm	Inv. 4.4: biosignature detection	Mike Malaska
3:30 pm	Discussion, Annual report Assessment of schedule	Rosaly and all
5:00 pm	Adjourn	