

Centaur Exploration Workshop 2019 (#CEW2019)

University of Central Florida, Florida Space Institute (hosted at Partnership II, 3100 Technology Pkwy, Orlando, FL)

Time	Session	Topic	Contributor	Title
DAY 1 (Wednesday, March 6)				
Morning: 8:30-9:00		Coffee/Tea & Conversation	Everyone	Getting in, Getting settled
Morning: 9:00-9:20		Start of Day 1	Sarid, Womack	Workshop Introduction + Logistics
Morning: 9:20-10:00 25 min talk 15 min discussion	1	Overview + Discussion	Dones	Dynamical context
Morning: 10:00-12:00 15 min each talk 10 min break 50 min discussion	2	Activity (Rotations & Surfaces) + Discussion	Kokotanekova Knight Schambeau Steckloff	Revealing the Evolution of Comet Nuclei with Ground Photometric Observations Prospects for determining composition and rotational properties of centaurs Investigating Activity Drivers of Small Bodies in the Centaur-to-Jupiter Family Transition The effects of collisional evolution on the survivability of amorphous water ice within icy bodies
LUNCH (1.5 hr)				
Afternoon: 1:30-3:30 15 min each talk 10 min break 50 min discussion	3	Structure (Shapes & Insides) + Discussion	Bosh Fernandez-Valenzuela Brisset Safrit	Occultations by Centaurs Supporting centaur exploration from ground-based observations Experimental aspects of icy regolith mechanics on small body surfaces The Formation of Bilobate Comet Shapes through Sublimative Torques
BREAK (0.5 hr)				
Afternoon: 4:00-5:00 15 min each talk 15 min discussion	4	Dynamics (Orbits & Bodies) + Discussion	Morais Leiva Winter	High inclination Centaurs and a TNO in resonances with the giant planets Scenarios for rings among Centaur objects On the connections between Chariklo's shape and its rings
Afternoon: 5:00-6:00		General + Breakout Discussion		Everyone
DAY 2 (Thursday, March 7)				
Morning: 8:30-9:00		Coffee/Tea & Conversation	Everyone	Getting in, Getting settled
Morning: 9:00-9:10		Start of Day 2	Sarid, Womack	Logistics
Morning: 9:10-10:00 25 min talk 25 min discussion	5	Overview + Discussion	Woodney	Observational context
Morning: 10:00-11:30 15 min each talk 45 min discussion	6	Surveys (Targets & Biases) + Discussion	Bannister Lilly Kelley	Centaur studies with the Outer Solar System Origins Survey Search for activity among Centaurs discovered in the Pan-STARRS 1 detection catalog Centaur Science with LSST
LUNCH (1.5 hr)				
Afternoon: 1:00-3:00 15 min each talk 10 min break 50 min discussion	7	Composition (Volatiles & Outbursts) + Discussion	Bauer Wierzchos Harrington Pinto Boice	NEOWISE CO+CO2 observations of Active Centaurs: A statistical sample Characterizing outgassing in Centaurs CO and CO2 abundances in Centaurs: comparisons with OCCs and JFCs and future directions Are Centaurs Comets?
BREAK (0.5 hr)				
Afternoon: 3:30-4:30 15 min each talk 15 min discussion	8	Exploration concepts + Discussion	Bennett Brueshaber Harris	Radiation in the Outer Solar System - Potential Implications for Centaurs Camilla: A centaur reconnaissance flyby and impact mission design Volatile Activity and Encounter Missions with Centaurs
Afternoon: 4:30-5:30		General + Breakout Discussion		Everyone
DAY 3 (Friday, March 8)				
Morning: 9:00-9:30		Coffee/Tea & Conversation	Everyone	Getting in, Getting settled
Morning: 9:30-12:30	9	Context, workshop summary Strategic Knowledge Gaps Exploration pathways Summary paper Long-term Obs strategies	Everyone	Discussion + Group work