

Lunar Surface Science Virtual Workshop #5
Science Enabled by Mobility
October 28, 2020

Program and Abstracts

All times are Eastern Daylight Time (EDT) (UTC -4)

Times (EDT)	Presenters	Title
Opening Remarks and Invited Talks		
12:00 p.m.	Aileen Yingst, Darlene Lim	Welcome Remarks
12:10 p.m.	Michael Gernhardt	<i>Crewed and Uncrewed Mobility Platforms — Science Opportunities for Future Lunar Exploration</i> [#6012]
12:30 p.m.	Anthony Colaprete	VIPER Lunar Rover: Lunar Science Enabled Through Mobility [Invited]
12:50 p.m.	Jim Head	Apollo Perspective [Invited]
1:10 p.m.		BREAK
Short Talks		
1:20 p.m.	David Kring	<i>Lunar Mobility Strategies, Trade Studies, and Mission Simulations</i> [#6007]
1:30 p.m.	Pascal Lee	<i>Science in Extreme Environments on the Moon and Its Mobility Requirements</i> [#6015]
1:40 p.m.	Mark Robinson	<i>Intrepid: Long Range Lunar Rover Enabling Science and Exploration</i> [#6016]
1:50 p.m.	Pamela Clark	<i>Utilizing Mobile Instrument Suites to Meet High Priority Lunar Science Objectives</i> [#6005]
2:00 p.m.	Mason Bell	<i>Construction of Lunar Radio Astronomy Telescopes Leveraging Low-Latency VR/AR Teleoperation</i> [#6008]
2:10 p.m.	Kirby Runyon	<i>Science Enhancements at Amundsen Crater from Mobility</i> [#6009]
2:20 p.m.		BREAK
2:30 p.m.	Matthew Atwell, Mark Robinson	<i>Deployable Robotic Hopper for Versatile Lunar Science Access</i> [#6011]
2:40 p.m.	Andrew Gemer	<i>Lunar Science Mobility as a Service: The Lunar Outpost Mobile Autonomous Prospecting Platform (MAPP) Rover</i> [#6006]
2:50 p.m.	Michael Provenzano	<i>Mobility as a Service for Lunar Payloads</i> [#6002]

Times (EDT)	Presenters	Title
Lightning Talks with Virtual Posters		
To view all submitted e-posters: View E-Posters		
3:00 p.m.	Michael Walker	<i>Mixed Reality Interfaces for Mobile Lunar Surface Robots</i> [#6013]
3:02 p.m.	Kaizad Raimalwala	<i>Science Autonomy on a Lunar Micro-Rover to Maximize Return</i> [#6014]
3:04 p.m.	Alian Wang	<i>Wheel Science: 3D Survey for Lunar Volatiles</i> [#6010]
3:06 p.m.	Berkay Kars	<i>Future Earth-Moon Transportation Methodology</i> [#6001]
3:08 p.m.	Midhun Menon	<i>URSSA: A Simulator for Lunar Surface Telerobotics Research</i> [#6004]
3:10 p.m.	Sungsoo Kim	<i>Light Field Cameras for Dust Particles On and Near the Lunar Surface</i> [#6003]
3:12 p.m.		BREAK

Times (EDT)	Presenters	Title
Break Out Groups		
3:15 p.m.		Break Out Groups —Discussion Part 1 Group #1: Science Enabled by Semi-Autonomous Robotic Rovers Group #2: Science Enabled by Uncrewed (But Crew-Capable) Rovers
4:15 p.m.		BREAK
4:30 p.m.		Break Out Groups — Discussion Part 2 Group #1: Science Enabled by Semi-Autonomous Robotic Rovers Group #2: Science Enabled by Uncrewed (But Crew-Capable) Rovers
5:00 p.m.		Break Out Groups — Report Out
5:30 p.m.	Aileen Yingst, Darlene Lim	Final Thoughts, Closing Remarks, Next Steps
5:45 p.m.		ADJOURN