

# Tuesday, July 20

## Session: **Welcome**

Time (PT)	Name	Title	Abstract
7:00 AM	Gregory Schmidt		
7:10 AM	Mahesh Anand		

## Session: **Plenary 1**

Chaired by: Gregory Schmidt & Mahesh Anand

Time (PT)	Name	Title	Abstract
7:20 AM	David Parker	Our Eighth Continent: The Moon within ESA's Exploration Programme Terrae Novae	
7:30 AM	Jim Green	Our Rare Moon	
7:40 AM	Noah Petro	The Lunar Reconnaissance Orbiter in the Era of Artemis and Commercial Lunar Payload Services (CLPS): The Future of LRO in a New Age of Lunar Exploration	<a href="#">View Abstract</a>
7:50 AM	Bethany Ehlmann	Lunar Trailblazer: A Pioneering Smallsat for Lunar Water and Lunar Geology	<a href="#">View Abstract</a>
8:00 AM	Daniel Andrews	VIPER MISSION UPDATE	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
8:10 AM	Anthony Colaprete	The Volatiles Investigating Polar Exploration Rover (VIPER) Mission: Measurement Goals, Traverse Planning and Mission Status	<a href="#">View Abstract</a>
8:20 AM	David Heather	THE ESA PROSPECT PAYLOAD FOR LUNA 27: DEVELOPMENT STATUS AND SCIENCE ACTIVITIES	<a href="#">View Abstract</a>
8:30 AM	Alexandre Meurisse	DEFINITION OF THE SCIENTIFIC OBJECTIVES OF THE ESA ISRU DEMONSTRATION MISSION (ISRU-DM).	<a href="#">View Abstract</a>
8:40 AM	Charles Shearer	UPDATES ON APOLLO NEXT GENERATION SAMPLE ANALYSIS (ANGSA) INITIATIVE AND LESSONS LEARNED FOR THE NEXT STEPS IN HUMAN EXPLORATION OF THE MOON	<a href="#">View Abstract</a>

## Session: **EDI Plenary 1**

Chaired by: Gregory Schmidt

Time (PT)	Name	Title	Abstract
9:00 AM	Donald James	Diversity, Equity, Inclusion and Anti-Racism at NASA	

## Session: **Student Lightning Talks & Poster Session Overview**

Time (PT)	Name	Title	Abstract
9:20 AM	Kristina Gibbs	Poster Session Overview	

Time (PT)	Name	Title	Abstract
9:24 AM	Nicholas Piskurich	Compositional Characterization of the Four Largest Irregular Mare Patches via M3 and Diviner Data Analyses ⚡	<a href="#">View Abstract</a>
9:26 AM	Aisha Khatib	Classifying Deep Moonquakes Using Convolutional Neural Nets ⚡	<a href="#">View Abstract</a>
9:28 AM	Linden Wike	Detection of subsurface voids using gmsh and SPECFEM2D with applications to lunar and martian lava tubes ⚡	<a href="#">View Abstract</a>

### Session: **Break**

Time (PT)	Name	Title	Abstract
9:30 AM		<b>Break</b>	

### Session: **Poster Session 1**

Time (PT)	Name	Title	Abstract
9:45 AM		<b>Lunar Volatile System</b>	
9:45 AM		<b>Space Environment</b>	
9:45 AM		<b>Geology &amp; Geophysics</b>	
9:45 AM		<b>Payloads &amp; Services</b>	

Time (PT)	Name	Title	Abstract
9:45 AM		<b>Building Better Worlds</b>	

Session: **Break**

Time (PT)	Name	Title	Abstract
11:15 AM		<b>Break</b>	

Session: **Polar Exploration I (Artemis, Context)**

Chaired by: Hannes Bernhardt & Noah Petro

Time (PT)	Name	Title	Abstract
11:30 AM	James Head	GEOLOGIC CONTEXT FOR LUNAR SOUTH CIRCUMPOLAR REGION (SCR) EXPLORATION: IMPLICATIONS FOR GOALS, SITE SELECTION AND OPERATIONS STRATEGY	<a href="#">View Abstract</a>
11:40 AM	Brad Jolliff	Sample Science for Artemis: Collecting Materials from the Giant South Pole-Aitken Basin	<a href="#">View Abstract</a>
11:50 AM	Carle Pieters	The Probability of Artemis Collecting Deep-seated Material from SPA at the South Pole is TINY, Unless...	<a href="#">View Abstract</a>
12:00 PM	Hannes Bernhardt	Identification of new science targets based on mapping (1:10,000) of Artemis III AOI 001 & 004 on the Shackleton-de Gerlache ridge	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
12:10 PM	Brent Garry	The Distribution and Geologic Context of Boulders and Outcrops Along the Connecting Ridge Lunar South Pole Exploration Site	<a href="#">View Abstract</a>
12:20 PM	Prasun Mahanti	Secondary Illumination in Large Permanently Shadowed Regions at the Lunar PSRs	<a href="#">View Abstract</a>
12:30 PM	Caitlin Ahrens	Shedding Light on the Darkness: Diversity of Permanently Shadowed Regions (PSRs) at the Lunar South Pole	<a href="#">View Abstract</a>
12:40 PM	Claudia Poehler	A Geological Map of the South Pole-Aitken Basin Region ⚡	<a href="#">View Abstract</a>
12:42 PM	Nandita Kumari	SURFACE ILLUMINATION, TEMPERATURES, AND COLD TRAPS AT TWO POTENTIAL LANDING SITES NEAR THE LUNAR SOUTH POLE ⚡	<a href="#">View Abstract</a>
12:44 PM		<b>Discussion</b>	

**Session: Asteroids**  
 Chaired by: Hsiang-Wen Hsu & Stephanie Jarmak

Time (PT)	Name	Title	Abstract
11:30 AM	Masatoshi Hirabayashi	Hayabusa2 Extended Mission to Rendezvous with Asteroid 1998 KY26, a Small Fast Rotator, to Explore Planetary Defense and Material Transport	<a href="#">View Abstract</a>
11:40 AM	Humberto Campins Campins	MORE EXOGENOUS MATERIAL ON ASTEROID (101955) BENNU	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
11:50 AM	Joseph DeMartini	The Influence of Irregular Grain Shape on The Brazil-nut Effect in Low-Gravity	<a href="#">View Abstract</a>
12:00 PM	Hsiang-Wen Hsu	LEAVE NO STONE UNTURNED – MODELING ASTEROID REGOLITH GRAIN SIZE EVOLUTION	<a href="#">View Abstract</a>
12:10 PM	Lauren McGraw	OH/H <sub>2</sub> O on Near-Earth Asteroids	<a href="#">View Abstract</a>
12:20 PM	Vanessa Lowry	T-MATRIX AND HAPKE MODELING OF TIR SPECTRA OF TROJAN ASTEROIDS	<a href="#">View Abstract</a>
12:30 PM	Yaeji Kim	Structural Condition of Asteroid 1998 KY26, the New Target of Hayabusa2 Extended Mission ⚡	<a href="#">View Abstract</a>
12:32 PM	Marina Gemma	Evaluating Mineral Variation and Metal Coarsening Across Petrologic Types of H Chondrite Meteorites ⚡	<a href="#">View Abstract</a>
12:34 PM	Holly Bense	EVIDENCE FOR WATER ON VESTA: COMPARING THE GEOMORPHOLOGY OF DEBRIS FLOWS IN CRATERS ON EARTH, MARS, THE MOON, AND VESTA ⚡	<a href="#">View Abstract</a>
12:36 PM	Katerina Slavcinska	Analyzing the Polycyclic Aromatic Hydrocarbon Inventory of Carbonaceous Chondrites via High-Resolution Two-Step Laser Mass Spectrometry ⚡	<a href="#">View Abstract</a>
12:38 PM	Ryota Nakano	FINITE ELEMENT MODELING APPROACH THERMOPHYSICAL MODEL TO CHARACTERIZE IRREGULARLY SHAPED BODIES' TEMPERATURE VARIATION ⚡	<a href="#">View Abstract</a>
12:40 PM		<b>Discussion</b>	

# Wednesday, July 21

## Session: **Networking Hour 1**

Time (PT)	Name	Title	Abstract
6:00 AM		<b>Networking Event</b>	

## Session: **Lunar Volatile System** Chaired by: Kathleen Mandt & Elizabeth Fisher

Time (PT)	Name	Title	Abstract
7:00 AM	Alice Stephant	Deuterium-poor water source for the Moon and the Early Earth	<a href="#">View Abstract</a>
7:10 AM	Kathleen Mandt	The Origin of Volatiles Sampled by the LCROSS Mission in Cabeus Crater	<a href="#">View Abstract</a>
7:20 AM	Paul Lucey	Shy volatiles: how volatiles in the lunar polar cold traps may use physics to escape detection	<a href="#">View Abstract</a>
7:30 AM	Charles Hibbitts	A CONUNDRUM IN THE OBSERVED DIURNAL SPECTRAL VARIATION OF WATER ON THE MOON	<a href="#">View Abstract</a>
7:40 AM	Casey Honniball	LUNAR HYDRATION DEPENDENCE ON TEMPERATURE FROM GROUND-BASED OBSERVATIONS AT 3 $\mu$ m	<a href="#">View Abstract</a>
7:50 AM	Abigail Flom	Telescopic Hydration Observations of Chang'e 5 Landing Site in Partial Eclipse	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
8:00 AM	Khari Fletcher	ANALYSIS OF LADEE MEASUREMENTS OF H2 IN THE LUNAR EXOSPHERE ⚡	<a href="#">View Abstract</a>
8:02 AM	Elizabeth Fisher	Identifying and characterizing surface adsorbed water on the lunar surface ⚡	<a href="#">View Abstract</a>
8:04 AM	Christian Gscheidle	DETERMINATION OF THE KNUDSEN DIFFUSION COEFFICIENT OF WATER THROUGH NU-LHT-2M USING A FAST PULSE TECHNIQUE ⚡	<a href="#">View Abstract</a>
8:06 AM	Pedro Montalvo	Contributions of impact mixing to the spatial distribution of water ice in permanently shaded lunar south polar craters Haworth, Shoemaker and Faustini ⚡	<a href="#">View Abstract</a>
8:08 AM		<b>Discussion</b>	

## Session: **Crewed Exploration (Astronaut Training, ConOps)**

Chaired by: David Kring & Cherie Achilles

Time (PT)	Name	Title	Abstract
7:00 AM	David Kring	Geologic and Exploration Training for Lunar Surface Operations	<a href="#">View Abstract</a>
7:10 AM	Noah Petro	Artemis Field Geology Investigations: Lessons from Apollo	<a href="#">View Abstract</a>
7:20 AM	Gordon Osinski	Robotic Precursor, Assistant, and Postcursor Activities in Support of Human Lunar Exploration: Lessons Learned from Analogue Missions	<a href="#">View Abstract</a>



Time (PT)	Name	Title	Abstract
7:30 AM	Janine Moses	Heads-Up Display Technology for Deep-Space Spacewalks	<a href="#">View Abstract</a>
7:40 AM	Cherie Achilles	Integration and Visualization of Geochemical Data for Tactical Decision Making during Crewed Surface Operations	<a href="#">View Abstract</a>
7:50 AM	Zachary Morse	Augmented Reality Visualization of Geologic Data Collected With Portable Field Instruments	<a href="#">View Abstract</a>
8:00 AM	Michael Walker Walker	Mixed Reality Cyber-Physical Virtual Control Rooms for Lunar Robot Teleoperation and Supervision ⚡	<a href="#">View Abstract</a>
8:02 AM	Tara Sweeney	DOCUMENTING PLANETARY SURFACE OPERATIONS USING AUTOMATIC IMAGING PLATFORMS AND 3D IMAGE PROCESSING ⚡	<a href="#">View Abstract</a>
8:04 AM	Christopher Proppe	THE EFFECTS OF A COOLING GARMENT ON EXERCISE PERFORMANCE AND PERCEIVED EXERTION: A PRELIMINARY REPORT ⚡	<a href="#">View Abstract</a>
8:06 AM	Gregory Smith	Analysis of the Neuropulmonary Axis Following Lunar Regolith Simulant Exposure ⚡	<a href="#">View Abstract</a>
8:08 AM	Mason Bell	Construction of Lunar Infrastructure Leveraging Low-Latency VR/AR Teleoperation ⚡	<a href="#">View Abstract</a>
8:10 AM	Kristoffer Sjolund	Hybrid Dust Mitigation Brush Utilizing EDS and UV Technologies ⚡	<a href="#">View Abstract</a>
8:12 AM		<b>Discussion</b>	

## Session: **Space Environment (Plasma, Magnetosphere)**

Chaired by: Andrew Poppe & Daoru Han

Time (PT)	Name	Title	Abstract
7:00 AM	Andrew Poppe	The Lunar Paleo-magnetosphere: Fractionation of Solar Wind Minor Ion Flux	<a href="#">View Abstract</a>
7:10 AM	SHAOSUI XU	Lunar photoemission yields inferred from ARTEMIS measurements	<a href="#">View Abstract</a>
7:20 AM	Robert MacDowall	Radio Data from the Radio Observations at the Lunar Surface of the photoElectron Sheath (ROLSSES) NASA lunar payload	<a href="#">View Abstract</a>
7:30 AM	Michael Collier	THE LUNAR ENVIRONMENT HELIOSPHERIC X-RAY IMAGER (LEXI): A FIREFLY AERO-SPACE/BLUE GHOST MISSION 1 PAYLOAD TO OBSERVE THE SOLAR WIND-MAGNETOSPHERE INTERACTION	<a href="#">View Abstract</a>
7:40 AM	Leonardo Surdo	ERSA and IDA: An external and an internal radiation research payload for early Gateway utilization	<a href="#">View Abstract</a>
7:50 AM	Fatemeh Rahmanifard	HYSTERESIS IN THE GALACTIC COSMIC RAY VARIATION AND IMPLICATIONS FOR FUTURE SOLAR ACTIVITY	<a href="#">View Abstract</a>
8:00 AM	Faris Almatouq	UTILIZING HEXAGONAL BORON NITRIDE AND GRAPHENE FIELD EFFECT TRANSISTORS FOR NEUTRON DOSIMETRY ⚡	<a href="#">View Abstract</a>
8:02 AM		<b>Discussion</b>	

Session: **Transition**

Time (PT)	Name	Title	Abstract
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8:40 AM

**Transition to Plenary**

Session: **PRISM Payload Suites Panel**

Time (PT)	Name	Title	Abstract
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8:45 AM

David Blewett

Lunar Vertex: Exploring the Intersection of Geoscience and Space Plasma Physics

9:00 AM

Mark Panning

Farside Seismic Suite

9:15 AM

Robert Grimm

Lunar Interior Temperature and Materials Suite (LITMS)

9:30 AM

**Discussion**

Session: **Break**

Time (PT)	Name	Title	Abstract
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9:45 AM

**Break**

Session: **Poster Session 2**

Time (PT)	Name	Title	Abstract
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Time (PT)	Name	Title	Abstract
10:00 AM		<b>Polar Exploration</b>	
10:00 AM		<b>Astronauts &amp; Analogs</b>	
10:00 AM		<b>ISRU</b>	
10:00 AM		<b>Asteroids</b>	
10:00 AM		<b>Dust Mitigation &amp; Astronaut Health</b>	

Session: **Break**

Time (PT)	Name	Title	Abstract
11:30 AM		<b>Break</b>	

Session: **Polar Exploration II (PSRs)**

Chaired by: Ariel Deutsch & Shuai Li

Time (PT)	Name	Title	Abstract
11:45 AM	Ariel Deutsch	Roughness Measurements of Ice-Bearing Craters on Mercury and the Moon	<a href="#">View Abstract</a>
11:55 AM	Shuai Li	CHARACTERIZING POTENTIAL LANDING SITES FOR FUTURE EXPLORATION OF LUNAR SURFACE WATER ICE	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
12:05 PM	Myriam Lemelin	Investigating Water Ice Detections in Lunar Permanently Shaded Regions Using the Kaguya Spectral Profiler Data	<a href="#">View Abstract</a>
12:15 PM	Alexander Sehlke	LUNAR COLD TRAPS: PROSPECTING BY THERMOLUMINESCENCE	<a href="#">View Abstract</a>
12:25 PM	Paul Hayne	Polar night-vision at the Moon's south pole: the Lunar Compact Infrared Imaging System (L-CIRiS)	<a href="#">View Abstract</a>
12:35 PM	Martin Losekamm	A Compact Cosmic-Ray and Neutron Spectrometer for Lunar Exploration Missions	<a href="#">View Abstract</a>
12:45 PM	John Robert Brucato	WATER DESORPTION FROM LUNAR SAMPLE ANALOGUES TO SUPPORT THE ESA PROSPECT INSTRUMENT DEVELOPMENT	<a href="#">View Abstract</a>
12:55 PM		<b>Discussion</b>	

## Session: **Terrestrial Analogs (Field Studies, Simulants)**

Chaired by: M. Elise Rumpf & Caela Barry

Time (PT)	Name	Title	Abstract
11:45 AM	Ernest Bell	Terrestrial Lunar Analogs Field Geophysics Lessons for Lunar Surface Science Operations	<a href="#">View Abstract</a>
11:55 AM	Benjamin Feist	HORIZONTALLY INTEGRATED INFORMATICS TO SUPPORT SCIENCE OPERATIONS IN HUMAN SPACEFLIGHT	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
12:05 PM	Sarah Seitz	Data Synthesis for Drilling and Sampling in Analog Studies	<a href="#">View Abstract</a>
12:15 PM	M. Elise Rumpf	The Case for a Terrestrial Analogs Data Portal	<a href="#">View Abstract</a>
12:25 PM	Caela Barry	NASA's Planetary Analogs Website: Analog Field Work for Broad Audiences..	<a href="#">View Abstract</a>
12:35 PM	Darlene Lim	CONSIDERATIONS TOWARDS BUILDING INCLUSIVE ANALOG WORK ENVIRONMENTS	<a href="#">View Abstract</a>
12:45 PM		<b>Discussion</b>	

## Session: **Surface Composition and Sample Analysis**

Chaired by: John Pernet-Fisher & Timothy Glotch

Time (PT)	Name	Title	Abstract
11:45 AM	Marjolein Daeter	Experimental data on partial melting of an ilmenite-bearing cumulate layer in the Moon	<a href="#">View Abstract</a>
11:55 AM	John Pernet-Fisher	Records of High Temperature Metamorphism in the Lunar Crust in Lunar Granulites	<a href="#">View Abstract</a>
12:05 PM	Shyama Narendranath	Remote sensing minor elements on the lunar surface	<a href="#">View Abstract</a>
12:15 PM	Christopher Kremer	Remote Mg# Determination of Olivine and Pyroxene in the 4-8 Micron "Cross-Over" Range	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
12:25 PM	Benjamin Greenhagen	Unmixing Lunar Surface Compositions Using Near Infrared and Thermal Infrared Datasets: Connecting Orbital and Laboratory Measurements	<a href="#">View Abstract</a>
12:35 PM	Chiara Ferrari-Wong	Lunar HyTI: A Thermal Infrared Hyperspectral Imager for Meter Scale Data Collection from Orbit	<a href="#">View Abstract</a>
12:45 PM	Yang Gao	PHASE-A STUDY ON LUNAR "VOLATILE AND MINERALOGY MAPPING ORBITER (VMMO)" MISSION	<a href="#">View Abstract</a>
12:55 PM	Ryan Galinkin	Characterizing the Effects of Porosity and Particle Size on TIR Olivine Spectral Features ⚡	<a href="#">View Abstract</a>
12:57 PM	Krishan Kumar Bhanot	Spinel symplectite textures in Lunar Dunites 72415 and 72417 ⚡	<a href="#">View Abstract</a>
12:59 PM	David Black	3D Modeling of Commercially Viable Lunar Materials ⚡	<a href="#">View Abstract</a>
13:01 PM	Amanda Stadermann	Preliminary Petrologic Characterization of Apollo 16 Clast-Rich Impact Melt Rocks ⚡	<a href="#">View Abstract</a>
13:03 PM		<b>Discussion</b>	

# Thursday, July 22

## Session: **EDI Plenary 2**

Chaired by: Gregory Schmidt

Time (PT)	Name	Title	Abstract
7:00 AM	Isabel Torres / Ryan Watkins	Why are mothers in STEMM lagging behind? A call to action from Mothers in Science	
7:20 AM	JA Grier	SSERVI Equity, Diversity, Inclusion and Accessibility Focus Group	

## Session: **Transition**

Time (PT)	Name	Title	Abstract
7:30 AM		<b>Transition to Parallel</b>	

## Session: **Astrophysics**

Chaired by: Jack Burns & Marin Anderson

Time (PT)	Name	Title	Abstract
7:35 AM	Jack Burns	RADIO SCIENCE FROM THE MOON ENABLED BY NASA COMMERCIAL LUNAR PAYLOAD SERVICES	<a href="#">View Abstract</a>



Time (PT)	Name	Title	Abstract
7:45 AM	Joshua Hibbard	Cosmology from the Lunar Farside with DAPPER: Effects of Warm Dark Matter Models on the Global 21-cm Emission Signal.	<a href="#">View Abstract</a>
7:55 AM	Neil Bassett	Quantifying the Effect of Lunar Topography on Global 21-cm Cosmology Analysis for DAPPER	<a href="#">View Abstract</a>
8:05 AM	Alexander Hegedus	Simulating the 21-cm Imaging Capabilities of the FARSIDE Array	<a href="#">View Abstract</a>
8:15 AM	Jan Harms	Lunar Gravitational-wave Antenna	<a href="#">View Abstract</a>
8:25 AM	Ethan Ayari	Visualizing Ring Currents with a Planeterrella Device ⚡	<a href="#">View Abstract</a>
8:27 AM	Nivedita Mahesh	Estimation of polarization effects on sky visibilities for FARSIDE ⚡	<a href="#">View Abstract</a>
8:29 AM		<b>Discussion</b>	

## Session: **Space Weathering and Regolith Evolution**

Chaired by: Jeffrey Gillis-Davis & Li Hsia Yeo

Time (PT)	Name	Title	Abstract
7:35 AM	Liam Morrissey	Simulating the Diffusion of Protons in Amorphous Silicates	<a href="#">View Abstract</a>
7:45 AM	ZIYU HUANG	Atomic-scale simulation of lunar water retention induced by space weathering	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
7:55 AM	Jeffrey Gillis-Davis	Analyzing Dual Laser Space Weathering Effects	<a href="#">View Abstract</a>
8:05 AM	Brittany Cymes	Variation in nanophase metallic iron particle occurrence in exsolved space-weathered lunar pyroxene	<a href="#">View Abstract</a>
8:15 AM	Mark Nottingham	APOLLO 12 REGOLITH BASALT NOBLE GAS SYSTEMATICS: IMPLICATIONS FOR FUTURE EXPLORATION	<a href="#">View Abstract</a>
8:25 AM	Ramin Lolachi	OPTICAL MONITORING OF THE DUST ENVIRONMENT AROUND LUNAR EXPLORATION SITES	<a href="#">View Abstract</a>
8:35 AM	Autumn Shackelford	Morphologic and Spectral Characterization of Regolith Breakdown Due to Water Ice ⚡	<a href="#">View Abstract</a>
8:37 AM	Stephanie Connell	IRIS CUBESAT TO MEASURE THE EFFECTS OF SPACE WEATHERING ON LUNAR SAMPLES ⚡	<a href="#">View Abstract</a>
8:39 AM	Eric Frizzell	POST-IMPACT GRANULAR DILATION ON AIRLESS BODIES ⚡	<a href="#">View Abstract</a>
8:41 AM	Dany Waller	INVESTIGATION OF MAGNETIC FIELDS ASSOCIATED WITH VARIOUS LUNAR SWIRLS OBSERVED IN THE FAR-ULTRAVIOLET ⚡	<a href="#">View Abstract</a>
8:43 AM		<b>Discussion</b>	

## Session: **Destinations (Landing Sites)**

Chaired by: Carolyn van der Bogert & Pascal Lee

Time (PT)	Name	Title	Abstract
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Time (PT)	Name	Title	Abstract
7:35 AM	Yuqi Qian	China's Chang'e-5 Landing Site: An Overview	<a href="#">View Abstract</a>
7:45 AM	Carolyn van der Bogert	Ages of geological units in the Schrödinger basin: Context for PRISM CLPS 2024	<a href="#">View Abstract</a>
7:55 AM	Samantha Bell	GEOLOGIC MAP OF A SEGMENT OF THE SCHRÖDINGER PEAK RING AND POTENTIAL ROVER TRAVERSES	<a href="#">View Abstract</a>
8:05 AM	Pascal Lee	Schrödinger CAT: A Proposed NASA PRISM Investigation of the Schrödinger Pyroclastic Vent and Permanently Shadowed Regions, Schrödinger Basin, Far Side, Moon	<a href="#">View Abstract</a>
8:15 AM	Harald Hiesinger	The Rima Bode Region: Volcanism/ISRU Exploration Site	<a href="#">View Abstract</a>
8:25 AM	Sascha Mikolajewski	Landing Site Evaluation of the Moscoviense Basin	<a href="#">View Abstract</a>
8:35 AM	Francesco Sauro	Moving forward the exploration of the Moon subsurface: the Lunar Caves mission study at the ESA Concurrent Design Facility (CDF)	<a href="#">View Abstract</a>
8:45 AM	Prateek Tripathi	Mineralogical Diversity of Von Karman Crater from the Visible and Near-Infrared Imaging Spectrometer (VNIS) Data onboard Chang'e 4 Rover ⚡	<a href="#">View Abstract</a>
8:47 AM		<b>Discussion</b>	

Session: **Break**

Time (PT)	Name	Title	Abstract
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9:15 AM

**Break**

### Session: **Poster Session 3**

Time (PT)	Name	Title	Abstract
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9:30 AM

**Surfaces Composition & Sample Analysis**

9:30 AM

**Space Weathering & Regolith Evolution**

9:30 AM

**Destinations (Landing Sites)**

9:30 AM

**Astrophysics**

### Session: **Break**

Time (PT)	Name	Title	Abstract
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11:00 AM

**Break**

### Session: **ISRU**

Chaired by: Jennifer Heldmann & Alexandre Meurisse

Time (PT)	Name	Title	Abstract
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Time (PT)	Name	Title	Abstract
11:15 AM	Jennifer Heldmann	Science, Exploration, and Public Engagement from NASA's SSERVI RESOURCE (Resource Exploration and Science of OUR Cosmic Environment) Project	<a href="#">View Abstract</a>
11:25 AM	Alexandre Meurisse	PROGRESS UNDERSTANDING LUNAR OXYGEN EXTRACTION WITH THE FFC PROCESS	<a href="#">View Abstract</a>
11:35 AM	Pierre-Alexis Joumel	An Economically Viable Lunar ISRU Process for Oxygen and Metal Production and Related Benefits for Terrestrial Applications	<a href="#">View Abstract</a>
11:45 AM	Aidan Cowley	ADVANCES IN ADDITIVE MANUFACTURING USING LUNAR REGOLITH SIMULANTS	<a href="#">View Abstract</a>
11:55 AM	Sungwoo Lim	A microwave Heating Demonstrator (MHD) payload for lunar construction and resource extraction	<a href="#">View Abstract</a>
12:05 PM	Kris Zacny	THE REGOLITH AND ICE DRILL FOR EXPLORING NEW TERRAINS (TRIDENT) ON NASA'S VOLATILES INVESTIGATING POLAR EXPLORATION ROVER (VIPER) AND POLAR RESOURCES ICE MINING EXPERIMENT (PRIME-1).	<a href="#">View Abstract</a>
12:15 PM	Sebastian Netter	iDRILL – An Instrumented Drill for Lunar Volatile Prospecting	<a href="#">View Abstract</a>
12:25 PM		<b>Discussion</b>	

**Session: Dust Mitigation and Astronaut Health**  
 Chaired by: Douglas Fontes & Jon Rask

Time (PT)	Name	Title	Abstract
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Time (PT)	Name	Title	Abstract
11:15 AM	Douglas Fontes	Lunar Regolith Particles Interacting with a Lander Rocket Plume at Low Altitudes	<a href="#">View Abstract</a>
11:25 AM	Dhaka Sapkota	GRAVITY SCALING OF THE CRATERING MECHANISM BY A COLD TURBULENT SUBSONIC JET.	<a href="#">View Abstract</a>
11:35 AM	Benjamin Farr	ELECTRON BEAM DUST MITIGATION METHOD FOR LUNAR SURFACE EXPLORATION	<a href="#">View Abstract</a>
11:45 AM	Zach Seibers	Design and Performance Considerations of Graphene-Laminated Thermoplastics for Electrically Conductive Applications in Space	<a href="#">View Abstract</a>
11:55 AM	Jon Rask	Chemical Reactivity of In-Situ Lunar Dust for Biototoxicity Assessment	<a href="#">View Abstract</a>
12:05 PM	Donald Hendrix	Hydroxyl Radical Generation of Lunar Dust Analogs in Biologically Relevant Human Respiratory System Fluids	<a href="#">View Abstract</a>
12:15 PM	Hsing-Ming (Jamie) Chang	DAMAGE PROVOKED BY EXPOSURE OF HUMAN LUNG CELLS TO LUNAR REGOLITH SIMULANTS	<a href="#">View Abstract</a>

12:25 PM

### Discussion

## Session: **Geology and Geophysics**

Chaired by: Wajiha Iqbal & Jacob Richardson

Time (PT)	Name	Title	Abstract
11:15 AM	Sara Gutierrez	CONSEQUENCES OF THE NUCLEATION BARRIER ON LUNAR CORE FORMATION	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
11:25 AM	Marissa Lo	Investigating the effect of varying magmatic volatile content on lunar magma ascent dynamics	<a href="#">View Abstract</a>
11:35 AM	Julie Stopar	MARE DEPOSITS IN THE AUSTRALE REGION OF THE MOON	<a href="#">View Abstract</a>
11:45 AM	Edward Williams	EFFECTS OF LUNAR LAVA TUBE SHAPE AND DIMENSION ON INTERNAL FAILURE AND EXTERNAL OBSERVABILITY	<a href="#">View Abstract</a>
11:55 AM	Samuel Halim	Modelling carbonaceous chondrite survival: a potential resource cache on the lunar surface.	<a href="#">View Abstract</a>
12:05 PM	Wajiha Iqbal	A Source of Young Ages at the Apollo 15 Landing Site	<a href="#">View Abstract</a>
12:15 PM	Lauren Talkington	REDUCTION OF CRATER POPULATIONS GREATER THAN 600-800 M IN DIAMETER ON THE WALLS OF LUNAR COMPLEX CRATERS FROM MASS MOVEMENT EVENTS	<a href="#">View Abstract</a>
12:25 PM		<b>Discussion</b>	

## Session: **Networking Hour 2**

Time (PT)	Name	Title	Abstract
13:00 PM		<b>Networking Event</b>	

# Friday, July 23

## Session: **Agency Panel**

Chaired by: Kristina Gibbs

Time (PT)	Name	Title	Abstract
7:00 AM	James Carpenter	<b>ESA Lunar</b>	
7:15 AM	Sarah Noble	<b>NASA Lunar Science</b>	
7:30 AM	Julie Robinson	<b>Artemis and HEO</b>	
7:45 AM	Masaki Fujimoto	<b>JAXA Future Exploration</b>	

## Session: **Integrity in Science**

Time (PT)	Name	Title	Abstract
8:00AM	David Draper	Integrity in Science	

## Session: **Student Poster Competition Awards**

Time (PT)	Name	Title	Abstract
8:15 AM		<b>Award Presentations</b>	



## Session: **Transition**

Time (PT)	Name	Title	Abstract
8:30 AM		<b>Transition to Parallel</b>	

## Session: **Building Better Worlds (EDIA/Public Engagement)**

Chaired by: JA Grier & Sanlyn Buxner

Time (PT)	Name	Title	Abstract
8:35 AM	JA Grier	ENGAGING KEY SPACE EXPLORATION STAKEHOLDERS IN ETHICS, INCLUSION, AND DE-COLONIZATION	<a href="#">View Abstract</a>
8:45 AM	Natalie Trevino	The Inequity of the Final Frontier	<a href="#">View Abstract</a>
8:55 AM	Abbie Grace	NZ MĀORI AND ABORIGINAL AUSTRALIANS: LEARNING FROM INDIGENOUS CONTRIBUTIONS TO ASTRONOMY AND EXPLORATION	<a href="#">View Abstract</a>
9:05 AM	Alexandra Matiella Novak	RESOURCE Public Outreach and Engagement: Storytelling as a Way to Connect with Diverse Communities	<a href="#">View Abstract</a>
9:15 AM	Omah Williams-Duncan	AN OVERVIEW OF PHASE 3 RESEARCH ABOUT THE EXPLORATION OF THE MOON AND ASTEROIDS BY SECONDARY STUDENTS (EXMASS) PROGRAM	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
9:25 AM	Ashley Smith	Cultivating Student Engagement in STEM: Exploring Scientist Advisor, Teacher Mentor, and Student Team Relationships toward Student Team Success in the Exploration of the Moon and Asteroids by Secondary Students (ExMASS) Program	<a href="#">View Abstract</a>
9:35 AM	Frances Zhu	ARTEMIS CUBESAT KIT: A LOW-COST, SPACEFLIGHT-READY 1U CUBESAT AND EDUCATIONAL MATERIALS IN THE PUBLIC DOMAIN	<a href="#">View Abstract</a>
9:45 AM		<b>Discussion</b>	

## Session: **Payloads and Services**

Chaired by: Prabal Saxena & Nelly Offord

Time (PT)	Name	Title	Abstract
8:35 AM	Sebastian Els	The Science System on-board the Rashid rover of the Emirates Lunar Mission	<a href="#">View Abstract</a>
8:45 AM	Seiichi Nagihara	Heat flow measurement planned on the Blue Ghost mission to Mare Crisium	<a href="#">View Abstract</a>
8:55 AM	Prabal Saxena	IN-SITU ARTIFICIAL SUBSTRATE WITNESS PLATES: GROUND TRUTH FOR KEY PROCESSES ON THE MOON AND OTHER PLANETS	<a href="#">View Abstract</a>
9:05 AM	Marco Muccino	THE MPAC PROJECT: OVERVIEW AND SCIENTIFIC OBJECTIVES	<a href="#">View Abstract</a>
9:15 AM	Christiane Bergemann	The European Commercial Lunar Surface Access Service (LSAS)	<a href="#">View Abstract</a>

Time (PT)	Name	Title	Abstract
9:25 AM	Nelly Offord	Data-relay communication and navigation services – comms services from 2024 with Lunar Pathfinder, paving the way for a future Lunar Comms and Nav constellation	<a href="#">View Abstract</a>

9:35 AM

**Discussion**

Session: **Break**

Time (PT)	Name	Title	Abstract
10:15 AM		<b>Break</b>	

Session: **SSERVI Award Presentation**

Time (PT)	Name	Title	Abstract
10:30 AM		<b>Shoemaker - Paul Lucey</b>	
10:50 AM		<b>Coradini - Tim Glotch</b>	
11:05 AM		<b>Wargo - Darlene Lim</b>	
11:20 AM		<b>Niebur - Shuai Li</b>	
11:35 AM		<b>Niebur - Parvathy Prem</b>	

Session: **Closing Plenary**

<b>Time (PT)</b>	<b>Name</b>	<b>Title</b>	<b>Abstract</b>
12:00 PM	James W. Head	The Apollo Lunar Exploration Program: Celebrating the Past and Inspiring the Future	
12:15 PM	Lindy Elkins-Tanton	The Interplanetary Initiative	