

Monday 6th February

Parallel Session Newton 2 Conference Room

Time	Presentation	Speaker
<i>Plenary Opening Session</i>		
0930	Welcome and Introductions	
0945	Opening Address	TBD
1000	Lunar Exploration and Scientific Results	Jaumann, R.
1015	The Need for Lunar Exploration Preparatory Science	Carpenter, J.
<i>The Moon as a stepping Stone to the Solar System</i>		
1030	Exploration of the Moon as Preparation for Mars - The Human Robotic Partnership	Carey, W.
1045	Using the Moon as an Analogue Environment to Study Biobehavior for Long Term Space Missions (BIOMOON)	Goswami, N.
1100	Accessing the Lunar Archive of Early Solar System History: Implications for Future Exploration	Crawford, I.
1115	Coffee break	
<i>Identifying and Characterising Sites for Exploration</i>		
1130	Identification and Characterization of Science-Rich Landing Sites for Lunar Lander Missions using Integrated Remote Sensing Observations	Flahaut, J.
1145	Lunar Polar Lighting Analysis In Support of Landing Site Selection	Bussey, B.
1200	Characterisation of Highly Illuminated Landing Sites at the Lunar South Pole for ESA's Lunar Lander Project	De Rossa, D.
1215		
1230	Lunar Regolith Contamination and Surface Alteration from Propulsive Descent and Landing	Merrifield, J.
1245	Lunar PanCam – Adapting for the ESA Lunar Lander	Coates, A.
1300	Lunch break	
<i>Characterising Chemical and Mineralogical Resources</i>		
1345	Chemical and Mineralogical Resources at the Lunar Poles	Anand, M.
1400	Lunar Volatiles	Pillinger, C.
1415	Thermal Investigation of JSC-1A under Vacuum Conditions for Lunar Volatile ISRU Processes	Hager, P.
1430	L-VRAP – a Lunar Volatile Resources Analysis Package for ESA's Lunar Lander.	Barbar, S.
1445	A Neutral Gas Mass Spectrometer for the Investigation of Lunar Volatiles	Wurz, P.
1500	The DORN Experiment: an Alpha Spectrometer Dedicated to the Characterization of the Transport of Lunar Volatiles	Meslin, P.Y.
1515	Obtaining Ground Truth Measurements for Lunar Surface Chemistry Using Nuclear Spectroscopy Techniques	Miller, R.
1530	Coffee break	
1545	The Journey of Lunokhod-1 – A Highlight in Early Lunar Exploration	Karachevtseva, I.P.
1600	Laser Ablation Mass Spectrometer (LMS) for Space Research	Tulej, M.
1615	A Combined Remote Raman-LIBS Instrument for Mineralogical and Geochemical Characterization of the Moon surface	Rull, F.
1630	Close-Up Camera: a High Performance Science Imaging System for Moon Surface Mission	Josset, J.L.
1645	Oxygen from Lunar Regolith	Hamilton, J.
1700	Oxygen Generation from Solar Thermal Reduction of Mineralogical Resources for Lunar Applications	Balat-Pichelin, M.
1715	Monitoring Lunar Environment Risks and Prospecting for Resources by Sensing Lunar Vibrations	Garcia, R.F.
1730	Close of Session	
1800	Poster Session and Social Event	

Parallel Session Einstein Conference Room

Time	Presentation	Speaker
<i>Physiological Aspects of Lunar Exploration</i>		
1130	Effects of Microgravity and Hypoxia to Simulate Moon Habitat on Body Protein and Lipid Metabolism - The 2011 Planica Study	Mekjavic, I.
1145	Simulating EVA Operations and Sampling Activity in Reduced Gravity at the Marseilles Bay Subsea Analogue Site	Weiss, P.
1200	Legged Locomotion Paradigms on Earth can Teach Humans how to Safely Extend their Progression Speed when Moving on the Moon.	Minetti, A. E.
1215	Neuroimaging in Extreme Environments	Schneider, S.
1230	Animals as a Multicellular Model Organisms in Order to Perform Scientific Preparation for Lunar Exploration	Rebecchi, L.
1300	Lunch break	
<i>Exploitation of the Moon for astronomy and fundamental physics</i>		
1400	Radioastronomy Science from the Moon	Zarka, P.
1415	Radioastronomy Measurements from the Moon	Ceccconi, B.
1430	Radio Astronomy with the Lunar Lander: Opening up the Last Unexplored Frequency Regime	Klein Wolt, M.
1445	The Lunar Occultation Observer (LOCO) - A New Paradigm in Nuclear Astrophysics	Miller, R.S.
1500	Observing the Earth as an Exoplanet	Karalidi, T.
1515	Test of Quantum Physics on the Moon	Schneider, J.
1530	Coffee break	
<i>Missions and enabling programmes</i>		
1545	Mobile Payload Element (MPE): Concept Study for a Sample Fetching Rover for the ESA Lunar Lander Mission	Haarmann, R.
1600	Utilising Kinetic Penetrators For In Situ Lunar Exploration	Smith, A.
1615	NASA's Robotic Lunar Lander Development Project	Cohen, B.
1630	Science Goals, Instruments and Operational Plan on Surface for Luna-Resource and Luna-Glob Missions for Moon Polar Regions Studies	Vladislav, T.
1645	Farside Explorer: Unique Science from a Mission to the Farside of the Moon	Mimoun, D.
1700	SLEO - A Small Orbiter for High Quality Lunar Science	Knigge, T.K.
1715	LunarCube : Extending the CubeSat Platform for Cis-Lunar and Surface Missions	Cox, R.
1730	Lunar Flashes Observation: How to Constrain the Medium-sized Meteoroids Flux on the Moon?	Baratoux, D.
1745	Close of Session	
1800	Poster Session and Social Event	

Tuesday 7th

Parallel Session Newton 2 Conference Room

Time	Presentation	Speaker
ESA Lunar Lander - status and preparations Plenary		
0900	The European Lunar Lander: A Human Exploration Precursor Mission.	Houdou, B.
0915	Scientific Preparation for Lunar Exploration with the ESA Lunar Lander	Carpenter, J. D.
0930	Q&A	
Dust and Plasma Environment and Effects		
0945	Lunar Plasma Environment and Implications for Exploration	Lue, C.
1000	On the Modelling of the Lunar Dust-Plasma Environment	Kallio, E.
1015	Dusty Plasma Effects on the Lunar Surface	Munsat, T.
1030	Plasma, Dust, and Dusty Plasma Environment in the Moon Space.	Atamaniuk, B.
1045	Charging Simulation of a Lunar Lander at the Moon surface	Cipriani, F.
1100	In-situ Dust Measurements by a Lunar Lander: A Science Case	Srama, R.
1115	Electric Field Measurements for Investigating the Dynamics of Dusty Plasma on the Lunar Surface	Bergman, J. E. S.
1130	Coffee break	
1145	Lunar Dust Environment and Plasma Package (L-DEPP)	Hausmann, G.
1200	Lunar Dust Environment and Plasma Package for Lunar Lander - Definition Study	Travnicek, P. M.
1215	Instrument Proposal for the Lunar Dust-Plasma Environment	Schmidt, W.
1230	A Dust Surface Package for the Moon	Horanyi, M.
1245	The Lunar Dust Experiment (LDEX)	Horanyi, M.
1300	Lunch break	
Dust and Regolith Properties and Effects on systems and physiology		
1400	Composition and Properties of Lunar Dust	van Westrenen, W.
1415	Lunar Dust Toxicity: Requirements for Terrestrial Research and <i>in situ</i> Measurements in Preparation for Future Human Exploration of the Moon.	Linnarson, D.
1430	Geotechnical Investigations on the Lunar Surface and Subsurface Regolith	Seweryn, K.
1445	Lunar Dust Analysis Package	Chaloner, C.
1500	An Evaluation of a Combined Scanning Probe and Optical Microscope for Lunar Regolith Studies	Pike, W. T.
1515	Coffee break	
15:30 - 16:30	Scientific Preparations for Exploration of the Moon	Panel Discussion
1630	Close of Session	

Parallel Session Einstein Conference Room

Time	Presentation	Speaker
Radiation Environment and Biological Effects		
0945	Recent Advances in Space Radiation Biology	Durante, M.
1000	Radiation Fields and Radiation Exposure at the Lunar Surface	Reitz, G.
1015	Specification, Predictions and Analysis of the Radiation Environment and its Effects for Lunar Missions	Jiggins, P.
1030	The Geant4-DNA project	Mantero, M.A.
1045	AMERE: Real Time Detection of Radiation Effects in Individual Cells on The Moon, A Cytomics Strategy for Lunar Biodosimetry	de Vos, W.
1100	AMERE: An Autonomous Experiment for Studying Living Human Cell-Radiation Interactions on the Moon	Hutsebaut, X.
1115	The O/OREOS Mission in Low Earth Orbit: a Precursor for Lunar Surface Exposure Facilities	Ehrenfreund, P.
1130	Coffee break	
1145	Supporting Mars Exploration: BIOMEX in Low Earth Orbit as First Step to Start Further Experiments on the Moon	de Vera, J.P.P.
1200	Characterization of the Lunar Radiation Environment Using the extended Energetic Particle Telescope (eEPT)	Cyamukungu, M.
1215	Radiation Shielding and Monitoring for Lunar Exploration.	Menicucci, A.
Exploitation of the Moon for planetary science 1		
1230	Long Lived Lunar Seismic Monitoring stand-alone Package	Lognonne, P.
1245	Thermal Control Technique for SELENE-2 Scientific Instruments on Lunar Surface	Ogawa, K.
1300	Lunch break	
Exploitation of the Moon for planetary science 2		
1400	The Moon as the Space Laboratory to Study Solar Wind Interactions With Airless Bodies	Barabash, S.
1415	The Moon as a New Target for Space Plasma Laboratory	Rothkaehl, H.
1430	Exploration of kinetic processes in the lunar wake	Jilek, M.
1445	Seismic While Drilling (SWD) Methodology in support Moon Sub Surface Stratigraphy Investigations	Magnani, P.
1500	Lunar Surface Age Determination by 40AR-39AR In-Situ Method	Burfeindt, J.
1515	Coffee break	
1530	Lunar Heat Flow, Bulk Composition, and the Thermal State of the Moon	Grott, M.
1545	The Heat Flow and Physical Properties Package HP3	van Zoest, T.
1600	Analysis of the Internal Structure of the Moon - The Same Beam Interferometry	Gregnanin, M.
1615	MoonLIGHT: a Lunar Laser Ranging Retroreflector Array for the 21st Century	Dell'Agnello, S.
1630	Close of Session	

Posters

session will

Posters	Presenter
Why it is Possible that the Moon is not Completely "Dry" that is not Fully Exhausted of its Primary Volatiles	Kochemasov, G.
Lunar Dust Lifting Experiment (LDLE) for the ESA Lunar Lander	Seran, E.
Cartography of the Apollo 17 Landing Site and Science Applications	Haase, I.
Simulation of Dust Grain Charging in a Controlled Plasma Sheath with SPIS	Cipriani, F.
An Integrated Set of Imaging Instruments in the Visible and the Near-Infrared, for Lunar in-situ Analysis	Poulet, F.
Cartography Support of the Luna-Globe Landing Sites	Karachevtseva, I.P.
Simulation of Seismic-Wave Scattering by Irregular Structure of Crater For Future Lunar Seismic Explorations	Okamoto, T.
Sensitivity Study of Lunar Soil Water Content Measurements Using a Combined Raman/LIBS Instrument	Colin, A.
Evaluation of Backscattering Neutron Radiation at Moon Environment.	Zanini, A.
Geological Context for Lunar Exploration Sites	Schmitz, N.
The Potential of Magnetic Force Microscopy for Investigating Nano-Phase Iron	Kohl, D.
Geodesy Instrument Package on the Moon for Improving our Knowledge of the Moon and the Realization of Reference Frames	Dehant, V.
Support of Extended Lunar Surface Operation	Henn, N.
Deployment of Two-Element Interferometer on the Moon	Aminaei, A.
CAFE - A New On-Line Resource for Planning Scientific Field Investigations in Lunar Analogue Environments	Preston, L.
SMART-1 Scientific Results as Preparation for Future Exploration	Foing, B.
The Ideal Geological Remote Sensing Testbench: Our Moon	Bugliolacchi, R.