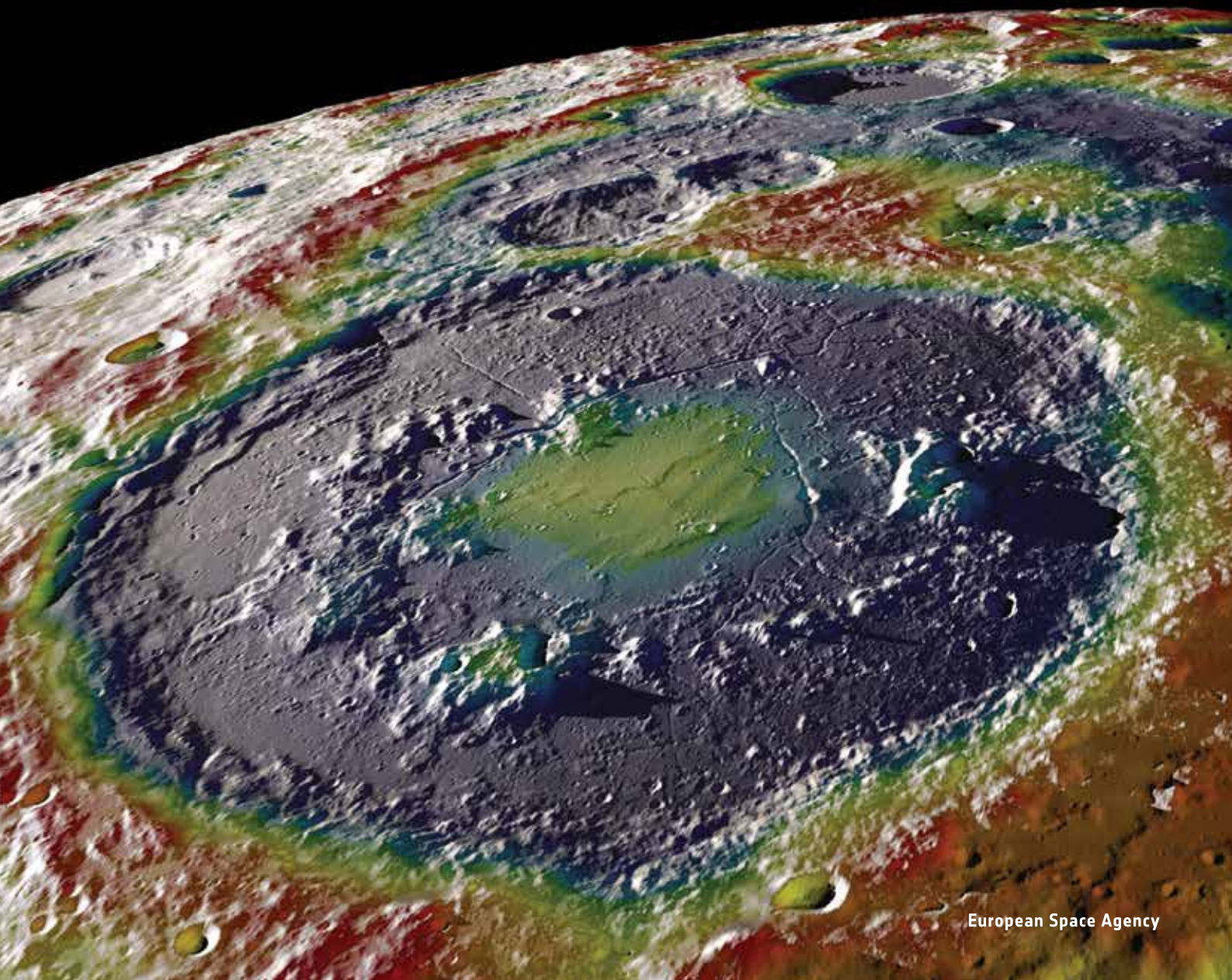


A small, white crescent moon is visible in the upper left corner of the dark background.

**→ MOON 2020-2030**

**A new era of human and robotic exploration  
Draft poster session programme**



Time	MONDAY 14	TUESDAY 15		WEDNESDAY 16	
	Newton 2	Newton 1	Newton 2	Newton 1	Newton 2
AM	Exploration Technology Showcase	Opening plenary		Splinter B1 Student Team Presentations	Splinter B2
PM	Exploration Technology Showcase	Splinter A1	Splinter A2	Final plenary Student Prize Award	
				Panel discussion on "Vision 2030"	
Evening		Poster session (ERASMUS)			
		Social Dinner			

# Tuesday 15 December

## ERASMUS HIGHBAY

- **Ilin Alexander**  
Moon seven — alternative scenario for russian space program
- **Vickers John**  
Creating the world's largest, and deepest, neutral buoyancy laboratory and research pool
- **Berezhnoy Alexey**  
Impact-produced oh radicals in the lunar exosphere
- **Kosov Alexander**  
Development of radio-science instruments and experimental procedures for luna's landing platforms and orbiters
- **Werner Grandl**  
The teleoperated rocket crane trc – a versatile spacecraft for lunar operations
- **Petrucciani Francesco**  
Electric solar wind sail testing using translunar trajectories
- **Boer Fabrizio**  
12 easy deployable payloads carrying composite for single launch mission
- **Kuznetsov Ilia**  
Dust analyzer for future moon landers
- **Grott Matthias**  
Lunar heat flow, bulk composition, and the thermal state of the moon
- **Kozyrev Alexander**  
The variations of neutron component of lunar radiation background from lend/lro observations
- **Laine Pauli**  
Moon as a stepping stone to a solar system exploration
- **Alexander Louise**  
Cosmogenic isotopes in lunar samples: the potential for lunar sample return to reconstruct the history of the galaxy
- **Ivanov Mikhail**  
Geology of the south pole region of the moon: the area of the long-term exploration activity
- **Cowley Aidan**  
Spaceship eac – fostering activities relevant to lunar exploration and in-situ resource utilisation
- **Chevrel Serge**  
Challenges in human and robotic geological investigation of large lunar craters
- **Chevrel Serge**  
Apollo surface operations as a base for future human and robotic in situ lunar exploration
- **Curran Natalie**  
Investigation of planetary processes using small lunar samples

- **Vekinis George**  
In-situ production of structural elements by exothermic solidification of regolith
- **Slyuta Evgeny**  
Russian project of rover “lunar-geologist”: concept, scientific problems, scientific equipment, technical configuration and operational requirements
- **Slyuta Evgeny**  
Mons rumker region – one of the primary targets for russian rover “lunar -geologist”
- **Lim Sungwoo**  
3d printing on the moon: challenges and opportunities
- **Cao Giacomo**  
Innovative technologies for lunar physical assets production using in-situ materials
- **Mazrouei Sara**  
The role of thermal fatigue in lunar regolith formation
- **Plescia J.b.**  
The role of the moon in solar system exploration
- **Zhuravlev R.**  
Lunar regolith investigation by sims and neutral mass-spectrometry on russian lunar missions
- **Krömer Olaf**  
A self-penetrating probe for subsurface exploration
- **Sekhar Aswin**  
Impact risks on satellites and space instruments from small solar system bodies
- **Snape Joshua**  
What can currently available lunar samples tell us about the moon? (a secondary ion mass spectrometry perspective)
- **Pettinelli Elena**  
A critical review on the use of ground penetrating radar for future moon subsurface exploration
- **Grygorczuk Jerzy**  
Hp3: a next generation heat flow probe for the robotic exploration of the moon
- **Werner Stephanie**  
On the scaling of small impact craters on the moon
- **Iafolla Valerio**  
Isa-s: a new seismometer on the moon
- **Kelso Rob**  
Planetary basalt construction field project of a lunar launch/landing pad – pisces project update
- **Kelso Rob**  
Pisces program update in planetary surface systems development for space resources
- **Dell’agnello S.**  
International and private-public multi-mission payload agreements for new-generation lunar laser retroreflectors

- **De sanctis M.c.**  
The ma\_miss spectrometer for planetary in-situ subsurface studies
- **Magnani Piergiovanni**  
Development of drilling and sampling technologies for preservation of volatile content in lunar south pole regolith
- **Worrall Kevin**  
Lunarmolelander: technology demonstrator for the moon and beyond
- **Robinson Katharine**  
Investigating the primitive volatiles signatures of the lunar interior
- **Suzuki Nantel**  
Exploring and using lunar polar volatiles: international strategic coordination
- **Banon Anilore**  
Vitae - a lunar exploration, sculpture and public engagement project
- **Seweryn Karol**  
Subsurface exploration and resources utilization in lower gravity
- **Grumpe Arne**  
From spectral unmixing coefficients to weight fractions: a spectral reflectance based calibration
- **Foing Bernard**  
Preparing for the moon village
- **Dauriskikh Anna**  
Manufacturing of experimental layer technology: melt project as building block for large structure manufacturing in-situ
- **Teeney Leo**  
Conceptual design of an evolvable space station in em-l2 halo orbit
- **Petrukovich Anatoli**  
Russian lunar orbiter mission and role of orbiters in coordinated exploration
- **Barnes Jessica**  
Investigating the unique chlorine isotopic compositions of lunar apatite
- **Gibson Everett**  
A virtual petrological microscope for apollo lunar samples
- **Wöhler Christian**  
Spectral analysis of hydroxyl on the floor of lunar crater boguslawsky
- **Brugger Bastien**  
On the chemical evolution of the impact-generated protolunar disk
- **Lavagna Michèle**  
Energy exchange model to support tools for subsurface icy samples collection design
- **Meurisse Alexandre**  
Lunar environment influence on sintered regolith

- **Sefton-nash Elliot**  
Thermal infrared observations to constrain the presence of volatiles at the lunar poles
- **Kamps Oscar**  
Assessment of lunar polar sites for future landers, rovers and human-assisted exploration
- **Reid Ewan**  
Software as a payload
- **Rao Sandhya**  
Design, develop, advanced future autonomous fleet of robotic rovers with artificial intelligence software to terraform the lunar crater to build sophisticated heliostats
- **Hausman Gerrit**  
Moon-based plasma, dust and radio science: essentials for preparation of future exploration and scientific breakthroughs
- **Foing Bernard**  
Report from 'moon village jam sessions' with community and young professionals
- **Schlacht Irene lia**  
Human factors design for the optimization of a moon station: sustainability, affordability & performance
- **Wurz P.**  
In situ dating of lunar surface material by laser-based mass spectrometry
- **Vukorep Ilija**  
Cable-driven autonomous large-scale lunar construction robot
- **Schmidt Gregory**  
Nasa's solar system exploration research virtual institute: science and technology for lunar exploration
- **Stumpf Alexander**  
A humanoid avatar system design for remote exploration and manipulation
- **Konstandopoulos Athanasios**  
In-situ resource utilization on the moon: Challenges and prospects for solar thermochemical reactor engineering
- **Mark Wieczorek**  
FARSIDE: A Scientific Mission to the farside of the Moon



**CONTACT**

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