

Session Program

9-11 Sept 2025

European Space Thermal Engineering Workshop 2025

Thermal for surface missions

ESA/ESTEC, Einstein and Newton
Keplerlaan 1 2201 AZ Noordwijk The Netherlands

Tuesday 9 September

16:30

Thermal for surface missions

Session | **Location:** Einstein | **Convener:** Alexandre Darrau

16:30–17:00

Thermal modelling for the Martian environment using the ESATAN-TMS Python API

Speaker

KENZA BATTAGLIA

17:00–17:30

Thermal Modeling and Environmental Analysis of 99942 Apophis for Surface Mission Applications

Speaker

Davide Cosenza

17:30–18:00

Lunar Thermal Environment Modelling and Thermal Design Trade-Offs for Lunar South Pole Landers

Speaker

Matteo Ruvolo

18:00

Wednesday 10 September

14:00

Thermal for surface missions

Session | **Location:** Einstein | **Convener:** Andreas Mussger

14:00–14:30

Effects of lunar dust deposition on thermal control surfaces - from measurements with lunar dust simulants to predictions for real lunar dust

Speaker

Dr Philipp Hager

14:30–15:00

Pre and Post Mission Thermal Analysis and Operations of the Lunar Outpost Mobile Autonomous Prospecting Platform (MAPP) Rover

Speakers

Alexander Walker, Kaila Pfrang

15:00–15:30

Design and Optimization of Convective Cooling System for Mars Flight Vehicle

Speaker

Jiri Teichman

15:30–16:00

Lunar Night Survival technologies originating from the LUX-Thermal development

Speakers

Tobias Flecht, Mr Jan Junker, Ms Kaja Dabrowska

16:00