

Session Program

17-18 Jun 2026



European Space Radiation Shielding Workshop 2026

Human Spaceflight and Exploration

ESA / ESTEC, ESCAPE Tennis Hall
Keplerlaan 1, 2201AZ Noordwijk, The Netherlands

Wednesday 17 June

14:35

Human Spaceflight and Exploration: Session 1

Session | **Location:** ESA / ESTEC, ESCAPE Tennis Hall, Keplerlaan 1, 2201AZ Noordwijk, The Netherlands

14:35-14:55

EGIS: Progress Towards Active Plasma-Based Radiation Shielding for Human Space Exploration

Speaker

Ruth Bamford

15:00-15:05

Extrusion additive manufacturing of water-clay systems for radiation shielding on Mars

Speaker

Marc Littkopf

15:10-15:30

Thales Alenia Space's activities on Radiation Shielding Solutions for Human Spaceflight

Speaker

Luca Bocchini

15:35-15:40

Radiation Protection for Martian Habitats Using Water Ice in Inflatable Structure

Speaker

Pam Graham

15:45

16:15

Human Spaceflight and Exploration: Session 2

Session | **Location:** ESA / ESTEC, ESCAPE Tennis Hall, Keplerlaan 1, 2201AZ Noordwijk, The Netherlands

16:15-16:35

Multifunctional composites for space radiation shielding

Speaker

Ruggero Volponi

16:40-16:45

From Metals to Multilayer Composites: A Material Comparison for Deep-Space Radiation Shielding

Speaker

Christoph Frühwirth

16:55-17:15

Evaluating the Radiation Shielding Capabilities and Constraints of Microbial Melanin: Evidence from Heavy Ion and X-ray Experiments

Speakers

Dr Katharina Runzheimer, Stefan Leuko

17:20-17:25

Radiation exposure and shielding effects on the lunar surface

17:25

Speaker
Dr Daniel Matthia