Session Program

6–8 Oct 2026

European Space Thermal Engineering Workshop 2026

Heat Transport Technology

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

Tuesday 6 October

16:30

Heat Transport Technology

Session | **Location:** ESA/ESTEC, Newton | **Convener:** Emmanuel Caplanne

16:30–17:00

Towards Multifunctional Satellite Structures: Embedding Pulsating Heat Pipes in Lightweight CFRP Laminates

Speaker
Robert Oxford Pope

17:00–17:30

Thermal and microvibration characterization of a pulsating heat pipe for space application

Speakers
Artur Jurkowski, Marcin Wójcik

17:30

Wednesday 7 October

09:00

Heat Transport Technology

Session | **Location:** ESA/ESTEC, Einstein | **Convener:** Paula Prado Montes

09:00–09:30 **Argon Loop Heat Pipe with Large Area of Heat Collection**

Speaker
Dr Calin Tarau

09:30–10:00
Passive Variable Heat Rejection System for Lunar and Planetary Habitats

Speaker
Calin Tarau

10:00–10:30
Experimental Characterisaton of Two-Phase Thermal Spreader for Space Electronic Cooling

Speaker
Dr Georgios Gkounis

10:30–11:00
Recent Development of High-Temperature Alkali Metal Heat Pipes at ACT

Speaker
Calin Tarau

11:00

14:00

Heat Transport Technology

Session | **Location:** ESA/ESTEC, Einstein | **Convener:** Paula Prado Montes

14:00–14:30
Impact of Environmental and Life Qualification Campaigns on the Thermal Performance of Space-Grade Copper-Water Heat Pipes

Speaker
Dr Georgios Gkounis

14:30–15:00
Development of an Additively Manufactured Titanium – Water Loop Heat Pipe

Speaker
Calin Tarau

15:00–15:30
Additive Manufactured Topology Optimized Cooling Structures for Electronic Equipment

Speaker
Jaime Ruiz

15:30–16:00
Titanium-Water Heat Pipe Radiators for Fission Surface Power – Structural Assessment

16:00

Speaker
Dr Calin Tarau

Thursday 8 October

11:30

Heat Transport Technology

Session | **Location:** ESA/ESTEC, Einstein | **Convener:** Emily Tipper

11:30–12:00

Development, Qualification and Upcoming In-Orbit Demonstration of a Heat Pipe Module for Small Satellite Thermal Control

Speaker
AKIRA TAKAGI

12:00–12:30

Advanced composite materials using high quality diamond particles to achieve superior thermal conductivity

Speaker
Gaby Cristian Mindreci

12:30–13:00

Analysis and Test of a Heat Pipe System under a Centrifugal Acceleration Field

Speaker
Paula Prado Montes

13:00