Session Program

6–8 Oct 2026

European Space Thermal Engineering Workshop 2026

Thermal Analysis

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

Tuesday 6 October

14:00

Thermal Analysis

Session | **Location:** ESA/ESTEC, Newton | **Convener:** Duncan Gibson

14:00–14:30 **ESATAN Thermal Modelling Suite - Product Development**

Speaker
Samuel Ekregbesi

14:30–15:00

SYSTEMA-THERMICA recent updates, model interoperability and AI usage

Speaker
Léa Galeron

15:30–16:00

Radian Developments in 2026: Cloud-Based Thermal Analysis Software

Speakers
Bernat Frangi Mahiques, David Criado

16:00

Wednesday 7 October

09:00

Thermal Analysis

Session | **Location:** ESA/ESTEC, Newton | **Convener:** Matthew Vaughan

09:00–09:30

Automated Thermal Control Design: A Coupled NLP-MILP Framework for Spacecraft Heater Sizing and Placement

Speaker
Carlos Arroyo Ruiz

09:30–10:00

Physics-Guided Neural Surrogate Modelling for Rapid Spacecraft Thermal Analysis

Speaker
Alessandro Palomba

10:00–10:30

AI-Based Thermal Correlation with In-Flight Telemetry

Speaker
Mr Wayne Croisetu

10:30–11:00

Accelerating Spacecraft Thermal Analysis via Physics-Informed Neural Networks

Speaker
Lorenzo Rabagliati

11:00

14:00

Thermal Analysis

Session | **Location:** ESA/ESTEC, Newton | **Convener:** Arthur Dunlop

14:00–14:30

METIS CORONAGRAPH: FLIGHT DATA THERMAL CORRELATION

Speaker
TIZIANO SCHILLACI

14:30–15:00

Improved post-processing workflow for space thermal design insight

Speaker
Jean-Frederic Ruel

15:00–15:30

UPMpyTMD: An Open-Source Tool for Efficient Post-Processing of ESATAN-TMS Thermal Models

Speaker
Dr Alejandro Fernández-Soler

15:30–16:00

Pycanha: current status of an open-source thermal analysis tool

Speaker
Javier Piqueras Carreño

16:00

Thursday 8 October

09:00

Thermal Analysis

Session | **Location:** ESA/ESTEC , Newton | **Convener:** Duncan Gibson

09:00–09:30

Assessment of the thermal model uncertainty from flight data comparison with thermal model predictions: Sentinel 1C case study

Speaker
Francesco Latella

09:30–10:00

Integrated Thermal Analysis and Battery Energy Balance Assessment of a Spacecraft Orbital Transfer and Return Vehicle Using TAITherm

Speakers
NAGAPP PRADHANI, Mr Sacha Jelic

10:00–10:30

Thermal Vacuum Testing of the MIRMIS Instrument for ESA's Comet Interceptor Mission and Automated Thermal Model Correlation

Speaker
João Castanheira

10:30–11:00 **Comet Interceptor Scan Mirror Assembly : Thermal Model Correlation**

Speaker
Célestin Libert

11:00

16:15

Thermal Analysis

Session | **Location:** ESA/ESTEC, Newton | **Convener:** Alexandre Darrau

16:15–16:45

Early Stage Satellite Thermal Analysis: Validating IDM-Thermal with Systema-Thermica

Speaker
Daphne Papadatos

16:45–17:15

A Simplified Methodology for LEOP Thermal Analyses with Evolving Radiative Enclosures: the HENON Case Study

Speaker
Marco Guzzon

17:15–17:45

A Custom Two-Phase Nitrogen Property Library and Fluid-Solver-Free Reduced-Order Model for LN2 TVAC Cooling Prediction in ESATAN-TMS

Speakers
Mr Thilan Chandika Ranasinghe Ranasinghe Arachchillage, Mr Thilan Ranasinghe

17:45