

ROOM 4 TECHNICAL SESSION SCHEDULE

Timeslot	Monday				Tuesday				Wednesday				Thursday					
10:30-10:50	Thermal Control & Protection 1 (TC&P I)	TC&P I-01	Learnings From a Lunar Lander - Parts 1 & 2	Jackson Sweeney (Firefly Aerospace)	Thermal Control & Protection 5 (TC&P V)	TC&P IV-03	Optimization of Battery Thermal Management for LEO Satellites Using Multi-Physics Modeling in GT-SUITE	Massimiliano Mastrogiorgio (Gamma Tech)	Thermal Control & Protection 9 (TC&P IX)				Thermal Control & Protection 15 (TC&P XV)	TC&P XV-01	Radiative heat transfer effects on environmental/thermal barrier coatings: Extended capabilities of OpenNCC's radiation solver	Makoto Endo (NASA GRC)		
10:50-11:10		TC&P I-02	Generalizing Lunar Vehicle Thermal Analysis: Lessons Learned from VIPER	Thomas B Slusser (NASA JSC)		TC&P V-02	Additively manufactured ceramic heat pipes with optimized capillary structures	Giancarlo D'Orazio (Cornell)		TC&P IX-02	The Lunar Outpost Lunar Voyage 1 MAPP Rover - Surviving a Hard Landing at the Lunar South Pole and Reaching TRL9	Kaila Pfang & Izzy Golemie (Lunar Outpost)		TC&P XV-02	A Mathcad model to perform orbital vehicle ascent aerothermal analysis to determine the vent size to maintain the pressure load within required limit	Siraj Jalali (NASA JSC)		
11:10-11:30		TC&P I-03				TC&P V-03	3D-Printed Loop-Heat Pipes for CubeSat, SmallSat, and Lunar Habitat Applications	Lawrence Bradley (ACT)		TC&P IX-03	CLPS EDS Payload Thermal Design and Analysis	Melissa Young (NASA KSC)		TC&P XV-03	Multi Mission Thermal Control Subsystem Design for Space Exploration Camera (Space Eye)	Massimiliano Mastrogiorgio (Gamma Tech)		
11:30-11:50		TC&P I-04				TC&P V-04	Characterization of Silicon-based Micro-Oscillating Heat Pipes	Zachary Wong (UCLA)		TC&P IX-04	Lunar South Pole Terrain Effects on Radiator Performance	William Birmingham (NASA MSFC)						
1:30-1:50	Thermal Control & Protection 2 (TC&P II)	TC&P II-01	Mitigation of Superheated Vapour Formation in Cryogenic Coolant Loops of Thermal Vacuum Chambers Using Passive Flow Strategies	Vinay N Panda (Astro Ltd.)	Thermal Control & Protection 6 (TC&P VI)	TC&P VI-01	Novel Pulsating Heat Pipes Featuring Fractals for Performance Enhancement	Md Zishan Akhter (TII)	Thermal Control & Protection 11 (TC&P XI)	TC&P XI-01	Volatiles Investigating Polar Exploration Rover (VIPER) System Integrated Thermal Vacuum Test Planning and Preparation	Jodi Turk (NASA MSFC)						
1:50-2:10		TC&P II-02	Calibration for Video Analysis with arjetCV	Alexandre Quintart (Flying Sq)		TC&P VI-02	Thermal characterization of pulsating heat pipes for antenna and detector-plane cooling applications	Marcin Wójcik (KP Labs)		TC&P XI-02	FROSTE: Designing a Thermal Control System for Cryogenic Lunar Sample Return	Claire Silire and Faiyaz Khan (NASA MSFC)						
2:10-2:30		TC&P II-03	Comparative Analysis of Thermal Straps in a Vacuum (CATS-Vac)	Heather L Grimes (NASA MSFC)		TC&P VI-03	High Temperature Oscillating Heat Pipe Radiator	Alex Miller (ThermAvant)		TC&P XI-03	Artemis 2 Lunar Environment Monitoring Station (LEMS-A3) Thermal Control Subsystem Architecture	Juan Rodriguez-Ruiz (NASA GSFC)						
2:30-2:50		TC&P II-04	IHAB Thermal Cover Assembly Omission Thermal Study	Rose Y. Fong (Amentum)		TC&P VI-04	Pulsating Heat Pipe Based Electronics Cooling System	Sai Kiran Hota (ACT)		TC&P XI-04	The LEAF Thermal Control System - An Artemis III Deployed Instrument	Kaitlyn Baba (Space Lab Tech)						
3:30-3:50	Thermal Control & Protection 3 (TC&P III)	TC&P III-01	Machine Learning-Guided Design of Ionic Liquids for Next-Generation Pumped Fluid Loops	Elif Acar (Cornell Univ)	Thermal Control & Protection 8 (TC&P VIII)	TC&P VII-01	Thermal correlation of a mechanically driven loop heat pipe for deep space science missions	Nayli Hay-Slayman (Maya HTT)	Thermal Control & Protection 13 (TC&P XIII)	TC&P XIII-01	Mapping and Modeling the Effects of Lunar Dust on Thermally Sensitive Surfaces for Heat Rejection Analysis	Brandon M Hoffmann (NASA JSC)						
3:50-4:10		TC&P III-02	Improving Configuration Management and Collaboration in a Thermal Analyst Workflow	Thomas B Slusser (NASA JSC)		TC&P VII-02	Non-Integrated Hot-Reservoir Variable Conductance Heat Pipe Tested on Peregrine Lander	Calin Tarau (ACT)		TC&P XIII-02	Infrared Spectrometry and Thermal Radiative Properties of Lunar Dust Simulants	Aravindha Raj Raciandran (UNT)						
4:10-4:30		TC&P III-03				TC&P VII-03	Thermal Vacuum Testing of a VIPER Loop Heat Pipe	Esqueiel Medici (NASA JSC)		TC&P XIII-03	Absorptivity and Emissivity Measurement Error Characterization of Protective Methods for Optical Property Instruments	Anna Dinkel (NASA JSC)						
4:30-4:50		TC&P III-04				TC&P VII-04	Double Strokes Active Heat Pipe for Thermal Control	Maged Mossallam (NARS)		TC&P XIII-04	Modeling lunar dust in Thermal Desktop: the best methods and expanding to include solar flux	Eric Malroy (NASA JSC)						