

Monday, July 29th, 2013	TIME	Paper Title	Lead Author	Lead Author Institution
Active Thermal & Cryo Fluid Paper Session I	9:00-9:30 AM	Development of a Cryogenic Analysis Tool for the Scaling of Cryogenic Boil-Off Reduction Systems	Monica Guzik	NASA Glenn Research Center
	9:30-10:00 AM	Ammonia and Propylene Loop Heat Pipes with Thermal Control Valves for Variable Thermal Conductance	Kara Walker	Advanced Cooling Technologies, Inc.
	10:00-10:30 AM	Variable Conductance Heat Pipe Back-Up Cooling for a Stirling Converter	Calin Tarau	Advanced Cooling Technologies, Inc.
	10:30-11:00 AM	Variable Conductance Thermal Management System for Balloon Payloads	Calin Tarau	Advanced Cooling Technologies, Inc.
	11:00-11:30 AM	Variable Conductance Heat Pipe Radiator for Lunar Fission Power Systems	Bryan Muzyka	Advanced Cooling Technologies, Inc.

Aerothermal Paper Session I	1:00-1:30 PM	Lessons Learned from the Ground Operations, Launch and Ascent Thermal Analysis of the Lunar Atmosphere and Dust Environment Explorer Mission	Kan Yang	NASA GSFC
	1:30-2:00 PM	Thermographic phosphor measurements of shock-shock interactions on a swept cylinder	Michelle Jones	NASA LaRC
	2:00-2:30 PM	Computational investigation of shock-shock interactions at Mach 6	Michelle Jones	NASA LaRC
	2:30-3:00 PM	Development of Atomistically informed Chemical Kinetics Modeling of Ablative Rubber Composite Materials	Tapan Desai	Advanced Cooling Technologies, Inc

Tuesday, July 30th, 2013	TIME	Paper Title	Lead Author	Lead Author Institution
Interdisciplinary Paper Session I	9:00-9:30 AM	Coupling Lithium Ion Battery Electrochemical-Thermal Math Models with Orbital-Thermal Analysis Software “Thermal Desktop”	William Walker	NASA JSC
	9:30-10:00 AM	Development and Implementation of Efficiency-Improving Analysis Methods for the SAGE III on ISS Thermal Model	Katilin Liles	NASA LaRC
	10:00-10:30 AM	Multi-parameter Optimization and Experimental and Numerical Study of Heat Transfer of Gas Turbine Blade Snubber	Mengmeng Liu	Florida Tech
	10:30-11:00 AM	Benchmarking of Parallelized Thermal Solver Technology	Carl Poplawsky	Maya Simulations

Passive Paper Session I	1:00-1:30 PM	Thermal Performance of a Cryogenic Fluid Management CubeSat Mission	J. J. Berg	NASA KSC
	1:30-2:00 PM	Thermal/Optical Analysis of Cube Corner Retroreflectors for the Lunar Environment	Giovanni O. Delle Monache	INFN-LNF Frasati Italy/ University of Maryland
	2:00-2:30 PM	Cube Flux Method to Generate Spacecraft Thermal Environments	S.A. Jalali	Oceanering Space Systems, TX
	2:30-3:00 PM	Modeling of Cryogenic Multilayer Insulation from Launch through Achieving Steady State	Wesley Johnson	NASA KSC

Wednesday, July 31st, 2013	TIME	Paper Title	Lead Author	Lead Author Institution
Aerothermal Paper Session II	9:00-9:30 AM	Preliminary Reentry Trajectory, Aeroheating, and TPS Performance Predictions for the Inspiration Mars Mission	Thomas Squire	NASA ARC
	9:30-10:00 AM	Development and Implementation of an Aerothermostructural Model to Examine Multi-Disciplinary Problems in Hypersonic Flight	Chris Kostyk	NASA DFRC
	10:00-10:30 AM	An Upgrade of the Aeroheating Software "MINIVER"	Pierce Louderback	NASA KSC AI Solutions
	10:30-11:00 AM	Space Launch System (SLS) Small Protuberance Aerodynamic Heating Methodology	Chris Morris	NASA MSFC
	11:00-11:30 AM	Simplified Method for Simulating Ascent Configuration Changes of Large Scale Integrated Launch Vehicles in Thermal Desktop	Robert Kwas	NASA KSC

Active Thermal & Cryo Fluid Paper Session II	1:00-1:30 PM	Study of Thermal Transport in Highly Anisotropic Materials for Space Recuperator Applications	Louis Chow	UCF
	1:30-2:00 PM	Simulating Fluid Networks Containing Reacting Flow Using GFSSP Linked with CEA	Richard Schulman	NASA KSC AI Solutions
	2:00-2:30 PM	No Vent Tank Fill and Transfer Line Chillydown Analysis by GFSSP	Alok Majumdar	NASA MSFC
	2:00-2:30 PM	Integration of a Reverse Turbo-Brayton Cryocooler with a Broad Area Cooling Shield and a Heat Pipe Radiator	R. J. Christie	NASA Glenn Research Center

Thursday, August 1st, 2013	TIME	Paper Title	Lead Author	Lead Author Institution
Passive Paper Session II	9:00-9:30 AM	Degradation of RASAT Thermal Surfaces	Altuğ Okan	Tubitak Space Technologies
	9:30-10:00 AM	Conjugate Fluid Flow/Solid Heat Transfer Simulations of the Flame Deflector Thermal Environment	Emre Sozer	NASA ARC
	10:00-10:30 AM	Cryogenic Liquid Level Sensing Using FOSS Technology	W. Lance Richards	NASA DFRC
	10:30-11:00 AM	NASA LSP Vapor Migration Test Equipment Design	Tony Cook	UCF
	11:00-11:30 AM	NASA ISS Passive Thermal Control System Thermal Model Checkout	Laurie Carrillo	NASA JSC

Interdisciplinary Paper Session II	1:00-1:30 PM	Induction Heating Model of Cermet Fuel Element Environmental Test (CFEET)	Carlos Gomez	NASA MSFC
	1:30-2:00 PM	Unsteady Simulation of Launch-Site Pressure Environment	Christoph Brehm	NASA ARC
	2:00-2:30 PM	Feasibility Study of Venus Surface Cooling Using Chemical Reactions with the Atmosphere	Christopher Evans	NASA MSFC
	2:30-3:00 PM	Orion MPCV Integrated Overall Thermal Mathematical Model Development	Lorenzo Andrioli	Thales Alenia Space, Turin, Italy