

		AUGUST 18 MONDAY			AUGUST 19 TUESDAY			AUGUST 20 WEDNESDAY			AUGUST 21 THURSDAY			AUGUST 22 FRIDAY			
8:00 AM		Thermal Desktop Course Room 1115	Fluent Course Room 1111		CFDesign Course Room 1115	RADCAD Course Room 1111	LaRC Tours	OPEN LAB Rooms 1113, 1116	Interdisciplinary Paper Session Room 2248	Aerothermal/CFD Paper Session Room 2235	OPEN LAB Rooms 1113, 1116	TAS PCB Course Room 1111	Thermal Vacuum Testing Short Course Room 2235	OPEN LAB Rooms 1113, 1116	Thermal Control Hardware Short Course Room 2235	MINIVER Course Room 1111	OPEN LAB Rooms 1113, 1116
9:00 AM																	
10:00 AM																	
11:00 AM																	
Noon		LUNCH AND SPEAKER Room 1301-1303			LUNCH AND SPEAKER Room 1301-1303			LUNCH AND SPEAKER Room 1301-1303			LUNCH AND SPEAKER Room 1301-1303						
1:00 PM		Rm 2248	Rm 2235	OPEN LAB Rooms 1113, 1116	Thermal Paper Session Room 2235	Propulsion Paper Session Room 2248	OPEN LAB Rooms 1113, 1116	TMG / ESC Course Room 1111	MSC.Patran Thermal Course Room 1115	LaRC Tours	OPEN LAB Rooms 1113, 1116	CFD-Thermal Integration Short Course Room 2235	Thermal Vacuum Testing Panel Meeting Room 2248				OPEN LAB Rooms 1113, 1116
2:00 PM		Pro/ Mech Demo	SHABP/ ZonaTech Demo														
3:00 PM		Tecplot Demo	TSS/ FEM Demo														
4:00 PM		Mathematica Demo	VULCAN Demo														
5:00 PM		Thermica/ FEMAP Demo	STAR-CD Demo														
EVENING		Icebreaker Holiday Inn			American Rover Cruise Downtown Norfolk			TFAWS Banquet and Keynote Speaker Holiday Inn			NASA Delegates Meeting Holiday Inn						

Tuesday, August 19th

		Paper Title	Presenter
Thermal Paper Session Room 2235	1:30 PM	Performance Testing of Thermal Interface Filler Materials in a Bolted Aluminum Interface Under Thermal/Vacuum Conditions	Shaun Glasgow
	2:00 PM	Implementation of a Water Flow Control System into the ISS's Planned Fluids & Combustion Facility	Darryl Edwards
	2:30 PM	Sensitivity Equation Derivation for Transient Heat Transfer Problems	Gene Hou
	3:00 PM	Graphical Model Builders for Spacecraft Thermal Design	Ron Behee
	3:30 PM	Break (snack served in main room)	
	3:45 PM	Automating the Search for Worst-case Design Scenarios	Tim Panczak
	4:15 PM	Internal Flow Thermal/Fluid Modeling of STS-107 Port Wing in Support of the Columbia Accident Investigation Board	John Sharp

Tuesday, August 19th

		Paper Title	Presenter
Propulsion Paper Session Room 2248	1:30 PM	Experimental and Modeling Studies of Liquid Hydrocarbon Rocket Injectors: Status and Future Research Directions	Bob Santoro
	2:00 PM	Rocket Combustor Experiments and Analyses	Bill Anderson
	2:30 PM	CFD-based Design of Turbopump Inlet Duct for Reduced Dynamic Loads	Jeff Rothermel
	3:00 PM	Summary of Recent Inducer Testing at MSFC and Future Plans	Steve Skelley
	3:30 PM	Break (snack served in main room)	
	3:45 PM	Thermo-Mechanical Modeling and Analysis for Turbopump Assemblies	Mike Platt
	4:15 PM	Thermal and Fluid Analyses for Gas Turbine Cooled Vane and Blade	Hidekazu Iwasaki

Wednesday, August 20th

		Paper Title	Presenter
Interdisciplinary Paper Session Room 2248	8:00 AM	The Application of CFD to Underpin Material Selection for Gas Turbine Rotors	Colin Young
	8:30 AM	Automated Fluid-Structure Interaction Analysis	Daron Issac
	9:00 AM	Aeroheating Thermal Analysis Methods for Aerobraking Mars Missions	Ruth Amundsen
	9:30 AM	Numerical Modeling of Unsteady Thermofluid Dynamics in Cryogenic Systems	Alok Majumdar
	10:00 AM	Break	
	10:10 AM	Enabling Technologies for High Fidelity Simulations involving Fluids and Thermal Analysis	Bharat Soni
	10:40 AM	Use of a single Finite-Element Mesh for a STOP-G Analysis for the LISA Spacecraft	Hume Peabody
	11:10 AM	Heating Analysis of Entry System Break-up Particles for Planetary Protection	A. J. Mastropietro
	11:40 AM	TPSX Demo	Tom Squire

Wednesday, August 20th

		Paper Title	Presenter
Aerothermal/CFD Paper Session Room 2235	8:00 AM	Unified Finite-Element Method Development	Bruce Vu
	8:30 AM	Aerothermal Analysis and Design Process Overview	Russell, Gerald W
	9:00 AM	Coupled Aeroheating/Ablation Analysis for Re-entry Vehicles	Alvin Murray
	9:30 AM	Advanced thermal – decomposition analysis of rocket motors and other thermal protection systems using MSC.Marc-ATAS	Ted B. Wertheimer
	10:00 AM	Break	
	10:10 AM	Development of a Pressure-Based CFD Solver for All-Speed Flows on Arbitrary Polygonal Meshes in a Rule-Based Framework	Siddarth Thakur
	10:40 AM	Improved Measurements of External Heat Rates on Launch Vehicles	Thomas Reinarts
	11:10 AM	ZONAIR for RLV/TPS Design and Analysis	Danny Liu
	11:40 AM	Windmill Powered Cooling for Avionics	Pietro Cuppari