

Tuesday, June 16, 2026

START TIME	END TIME	TITLE
8:00 AM	9:00 AM	Registration & Coffee
9:00 AM	9:30 AM	TAI Updates & Roadmap (TAITherm, CoTherm, ManikinPC) Steven Patterson ThermoAnalytics
9:30 AM	10:00 AM	Vehicle Thermal Management – Challenging Methods Efficiency through Full Virtual Sign Off Goncato Pereira Aston Martin Lagonda
10:00 AM	10:20 AM	Fighterjet Cooling Airflow Functionality Assessment of RapidFlow Including CFD Comparative Study Dion Blackburn BAE Systems
10:20 AM	10:40 AM	Heat, Data, and Algorithms: A Python Driven Journey Through Thermal Simulation Michael Hauenstein Autoneum Management
10:40 AM	11:10 AM	Coffee Break
11:10 AM	11:30 AM	SUV Cabin Solar Soak Validation with RapidFlow for Durability Steve Patterson ThermoAnalytics / Volvo Cars
11:30 AM	11:50 AM	Transient Human Thermal Comfort: Validating Coupled Cabin Simulations in Heavy Duty Vehicles Farhad Kazemi Ford Otosan
11:50 AM	12:10 AM	Tractor Cabin Comfort Prediction by Integrated Simulation of Solar Loading, Engine Heat, and Air-Conditioning Flow Katsuyoshi Masuda ThermoAnalytics / Kubota
12:10 PM	12:40 PM	Accelerating Heat Transfer Simulation with Physics-Informed AI Timofey Golubev ThermoAnalytics
12:40 PM	1:40 PM	Lunch Break
1:40 PM	2:00 PM	Impact of Automotive Advanced Glazing on the Thermal Comfort and the HVAC Energy Needs Xavier Tardif Saint-Gobain Sekurit
2:00 PM	2:20 PM	Optimization of Cabin Heating and Cooling for Electric Off-Highway Vehicles Christoph Stroh Magna Powertrain
2:20 PM	2:40 PM	Thermal Simulation of a Reusable Inflatable Atmospheric Decelerator During Entry and Descent from LEO Towards Earth Using TAITherm Nagapp Pradhani ATMOS Space Cargo
2:40 PM	3:10 PM	Passive Thermal Simulation Across EV Systems: High Voltage Power Distribution Unit and Electronic PCBs Carles Duñó Barcelona Technical Center
3:10 PM	3:40 PM	Coffee Break
3:40 PM	4:10 PM	Full Vehicle Simulation: Coupled TAITherm-STAR CCM+ vs Physical Test Accuracy Ty Grant International Motors
4:10 PM	4:30 PM	A Practical MATLAB-TAITherm Co-Simulation Framework for Thermal Control Research Zhuolin Wang University of Warwick
4:30 PM	4:50 PM	Optimization for Cabin and Human Comfort using Cadence Fidelity CFD/ANSA coupled with TAITherm Lohitasyudu Gorli Cadence Design Systems

Technical Session Agenda

Wednesday, June 17, 2026

	High-Fidelity IR Modeling for Real-World Scenarios Technical Session	Human Simulation for Comfort and Energy Management Technical Session	SMART HVAC & Energy Management Technical Session	xEV Thermal Management Technical Session
9:00 AM	Integrating TAItherm into Real-Time Infrared Rendering Workflows Yannick Sven Urbach, MBDA	Coupling ACE Manikin with TAItherm for Cabin Comfort Analysis Rick Burke, Thermetrics		
		Advanced Thermal Performance in Footwear: From Material Design to Functional Evaluation Sofia Pêra, CeNTI		
	Using IR Data Modeling for AI-Based Vision Tasks Pascal Stammer, VECTED	Integrated HVAC and Cabin Thermal Simulation for Heavy-Duty Trucks Using GT-TAItherm Luca Panizzolo, Gamma Technologies / IVECO		
10:00 AM	Coffee Break			
11:00 AM	IR Target Modeling	Human Model Updates & Roadmap (HTCM, TCAT, 3D Human)		
		Smart HVAC Simulation using AI		
		Room Dispatch		
12:00 PM		Pre- and Post-Processing Humans	AI-Enabled Smart HVAC Modeling	Battery Thermal Management Battery Lifetime and Reliability Joule Heating
1:00 PM	Lunch Break			
2:00 PM	Satellite & Space Modeling	Clothing & Sweat Modeling	Multi-Tool HVAC Coupling Workflows Coupling with System Tools Full-Vehicle Energy Management	Battery Thermal Runaway Analysis Battery Energy Management
	Sensor Modeling & Validation			Advanced Applications
3:00 PM	Coffee Break			
4:00 PM	CoTherm Process Integration	Combining Testing & Simulation Coupling Sensor Manikin with 3D Thermal Simulations		