

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 |
| 4:50 PM | 5:10 PM | Integrated HVAC and Cabin Thermal Simulation for Heavy-Duty Trucks Using GT-TAITherm Luca Panizzolo Gamma Technologies / IVECO |

Technical Session Agenda

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| | 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 |
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| 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 | Investigation of thermal comfort in surface temperature control systems using TAItherm Birke Schröter, RPTU | | |
| 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 | | Comfort Prediction 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 Foyer Isar | | | |
| 4:00 PM | CoTherm Process Integration | Combining Testing & Simulation Coupling Sensor Manikin with 3D Thermal Simulations | | |