



BERLIN

23-24 Sept. 2025

FINAL PROGRAMME

We're excited to share the complete programme for **ATMOsphere MAC Summit x TU Berlin 2025!** The event features a standout lineup of speakers and plenty of opportunities to learn about the implementation and scaling up of CO₂ and propane in mobile applications. **Browse the full agenda below** or [click here](#).

Tuesday, 23 September

Keynote



Stefan Elbel, TU Berlin | *The path to PFAS-free solutions: success stories from mobile HVAC and transport refrigeration*

Market trends



Matteo Martini, S&P Global Mobility | How evolving regulations, environmental concerns, and technology trends are shaping refrigerant choices in light vehicles

Technology case studies



Dr. Roman Heckt, Hanon Systems | *A cleaner future with natural refrigerant MAC Systems – avoiding excessive health burdens by decreasing TFA*



Carsten Wachsmuth, & Johannes Schwerter, Volkswagen | *Thermodynamic innovation: Volkswagen heat pump system with R744*



Karsten Mundt, Konvekta, & Giacomo Pisano, Dorin | *Active refrigerant charge balancing and novel compression technology: how to boost electrified bus autonomy*



Paul van Rooijen, Aurora Netherlands | *R290 heatpump HVAC system for electric bus*



Gabriel Greussing, Obrist Engineering | *R290 MAC – risk in a risky world*



Eric Laurenz, Fraunhofer Institute for Solar Energy Systems | *Locked up tight - Lessons learned from an innovative sorption based safety concept for R290 refrigerant circuits*

PFAS: Essential chemicals or replaceable risk?



Sebastian Riedel, Freie Universität Berlin, & Center for Sustainable Resources (CSR|Berlin)

Networking drinks: Participants are invited to join us for some networking drinks in our sponsors area at the end of Day 1.

Wednesday, 24 September

Presentation by Ford



Bernd Dienhart, Climate Attribute Engineer, Ford-Werke | *Alternative refrigerants in the automobile industry.*

Policy panel



Yunrui Zhou, United Nations Industrial Development Organization (UNIDO) | *Promote HCs in the MAC sector under the framework of the Kigali Amendment*



Arno Kaschl, DG CLIMA, European Commission | *Update on F-gas regulation for transport refrigeration and mobile air conditioning*



Gabriele Hoffmann, Environmental Agency of Germany (UBA) | *Refrigerants – MAC-directive, F-gas regulation and PFAS-restriction*



Sidsel Dyekjaer, ChemSec | *Update on EUs uPFAS restriction proposal with focus on mobile air conditioning and transport refrigeration*

Technology case studies



Sebastian Wappler, thyssenkrupp Dynamic Components | *A/C compressor designed for R744: high performance in environmental conditions*



Zhou Yi, Shanghai Highly Electrical Appliance | *Practice and outlook on natural refrigerant automotive thermal management at Highly*



Laurent Descourtieux, FIVES FILLING & SEALING | *Installation of refrigerant charging machines on an automotive production line : R290 or R744, pros and cons*



Andy Musser, Creative Thermal Solutions (CTS) | *Performance comparison of an EV secondary loop thermal management system with different refrigerants*



Fadil Ayad, Thermal Design Solutions (TDS) | *R744 heat exchangers for automotive applications*



Roland Kühn, Coolar | *Adsorption refrigeration in mobile cooling and HVAC application*



Kirsten Orschulok, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) & Santiago Martinez, Thermo King | *Greener Reefers: Progress and technical status of the R290 proof of concept of reefer*

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