

# 1<sup>st</sup> Conference Day

## Thursday, 14 November 2024

8:30 – 9:00 Registration

9:00 – 9:15 **Opening & Introduction**  
**Dr. Michael Nöst & Prof. Peter Prenninger** | A3PS Austrian Association for Advanced Propulsion Systems

9:15 – 9:30 **Welcome**  
**Dr. Andreas Dorda** | BMK – Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology

9:30 – 11:30 **Keynotes**  
**Chair: Dr. Michael Nöst**  
**Prof. Junji Inukai** | Clean Energy Research Center, University of Yamanashi, Japan: *Hydrogen Situation in Japan, Status and Roadmap to 2050+ Mobility Application*  
**Dr. Markus Schermann** | BRP-Rotax: *Next Gen Electrical Drive Unit for Powersports Vehicle*  
**Mr. Günther Lichtblau** | Umweltbundesamt: *Austria's Scenarios for a Sustainable Energy Supply - one of several Key Challenges*  
Panel Discussion

11:30 – 12:00 **Poster Presentation**  
Introduction of Poster Authors  
**Moderation: Prof. Werner Sitte & Prof. Thomas Lauer**

12:00 – 12:30 **Visit of the Poster Exhibition**

12:30 – 13:30 Lunch Break

## Programme



13:30 – 15:00 **Session 1: Sustainable Energy Carriers**  
**Chair: Prof. Werner Sitte**  
**Prof. Christoph Rameshan** | Montanuniversität Leoben: *From CO<sub>2</sub> to sustainable energy carriers - challenges and progress*  
**Dr. Bernd Loder** | VERBUND Green Hydrogen: *Local and global ways to supply Europe with green hydrogen*  
**Dr. Maximilian Malin** | TU Graz / LEC: *Ammonia and methanol – green fuels for sustainable propulsion systems?*  
Panel Discussion

15:00 – 16:00 **Visit of the Discussion Corners**

16:00 – 16:30 Coffee Break

16:30 – 18:00 **Session 2: Circular Economy**  
**Chair: Dr. Christian Chimani**  
**Prof. Clemens Holzer** | Montanuniversität Leoben: *Circular Economy of Plastics in the Automotive Industry*  
**Dr. Josef Berneder** | AMAG: *6xxx-series Aluminum alloy with high electric conductivity for EV battery components*  
**Dr. Gerfried Jungmeier** | Joanneum Research: *Circularity and Climate Neutrality Potentials in the LCA of Vehicles*  
Panel Discussion

18:30 – 19:00 **Virtual Keynote: Dr. Josipa Petrunic** | Canadian Urban Transit Research & Innovation Consortium (CUTRIC): *Canada's Plans for Zero-Emission Mobility*

19:00 – 21:00 **Social Evening**  
**A3PS Board: Welcome Address**

# 2<sup>nd</sup> Conference Day

## Friday, 15 November 2024

# Programme



9:00 – 10:15

### Keynotes

**Chair: Prof. Peter Prenninger**

**Prof. Michael Harasek** | ICEBE, TU Wien: *Production & Import Strategies of Green Hydrogen from an Austrian and European Perspective*

Discussion

**Dr. Rahul Gopalakrishnan** | ABEE - Avesta Battery & Energy Engineering: *Green Manufacturing of Batteries in EU*

Discussion

**Dr. Sunita Satyapal** | Department of Energy, USA: *U.S. National Clean Hydrogen Strategy and Roadmap Perspectives (Video)*

10:15 – 10:45

Coffee Break

10:45 – 12:30

### Session 3: Advanced Propulsion Systems

**Chair: Prof. Thomas Lauer**

**Mr. Josef Schäffler** | Magna Powertrain: *BEV-Trucks as part of Sustainable Transport Solutions*

**Dr. Dominik Kuzdas** | Robert Bosch AG: *Scalable Software Platform for Thermal Management in Fuel Cell Vehicles*

**Dr. Patrick Pertl, Rainer Schruth** | HyCentA, Virtual Vehicle Research: *Clean Hydrogen Construction and Mining Machines*

**Prof. Johannes Konrad** | IFA, TU Wien: *Development and Field Test of a Fuel Cell Electric Tractor*

Panel Discussion

12:30 – 13:30

Lunch Break

13:30 – 15:00

### Session 4: Environmental Impact

**Chair: Prof. Bernhard Brandstätter**

**Prof. Stefan Hausberger** | ITnA, TU Graz: *Challenge, Environmental Impact and Feasibility of Euro 7*

**Prof. Cornelia Lex** | FTG, TU Graz: *Current Status of Legislation and Test Procedures for Tire Wear and Particle Emission*

Panel Discussion

15:00 – 15:30

### Closing Remarks & Poster Award

**Prof. Peter Prenninger & Dr. Astrid Wolfbeisser** | A3PS: *Wrap Up Conference & Discussion Corners*



14 - 15 NOVEMBER 2024

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19th International A3PS Conference

## Eco-Mobility 2024

Sustainable Energy Carriers  
and Innovative Propulsion Systems  
in a Circular Economy

Organized by



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Rethinking Propulsion