



Heat Pumps with natural Refrigerants investigated in the "Urban Energy Lab 4.0 - Refrigerant Lab"

Location: Virtual Meeting

Time: 17:00-19:00 (Japan Time) on 8th December 2020

Organizer: Christian Vering (Project Leader Urban Energy Lab 4.0 -

Refrigerant Lab, IEA HPT's ANNEX 54 Research Associate)

Agenda

Chairmen: Prof. Dr. Dirk Müller and Mr. Philipp Mehrfeld

- 1. "Introduction to Urban Energy Lab 4.0" by Prof. Dr. Rita Streblow
- 2. "Refrigerant Lab An innovative infrastructure to demonstrate the potential of natural refrigerants" by Mr. Christian Vering
- 3. "Thermodynamic investigation of natural refrigerants and their mixtures in heat pump applications" by Mr. Christoph Höges
- 4. "Usage of hydrocarbons and their mixtures in a heat pump for floor heating application: Experimental results" by Dr. Valerius Venzik
- 5. "Real-time energy and exergetic related refrigerant evaluation of an air-to-water heat pump using the FIWARE open source cloud platform" by Mr. Stephan Göbel
- 6. "Experimental investigation and energetic evaluation of defrosting methods for air coolers" by Mr. Jonas Klingebiel
- 7. "Quo vadis? Refrigerants in Heat Pumps" Panel Discussion