

7<sup>th</sup> IIR Conference on Thermophysical Properties and Transfer Processes of Refrigerants

**TPTPR** 2025 College Park, Maryland USA JUNE 15-18

International experts from academia, industry and government will meet in the outskirts of Washington, D.C., to share the latest information on the development of eco-friendly refrigerants. Presentations will cover a wide scope of research on thermophysical properties and transfer processes of refrigerants and provide an opportunity to analyze the state-of-the-art developments in the sector. With current refrigeration and air-conditioning products contributing to climate change, this conference aims to outline the future perspectives and challenges of the field as we move toward solutions that minimize the impact of refrigerants on the global environment.

Organized every four years, the conference is being held in person for the first time since 2017, and will offer exciting opportunities for collaboration and sharing, as well as the opportunity to tour University of Maryland facilities. The University of Maryland is home to the Center for Environmental Energy Engineering and the state-of-the-art Daikin Energy Innovation Lab.

# **Who Should Attend**

- Senior representatives of engineering, marketing and product development companies
- Innovation leaders
- Professors, researchers, teachers and students
- Material and system designers
- Professional engineers
- Production and operation managers
- Policymakers





CENTER FOR ENVIRONMENTAL ENERGY ENGINEERING

# **Conference Format**

Welcome reception, conference banquet, closing ceremony

Plenary sessions with distinguished speakers

Oral presentations and posters

Panel discussions

**Technical tours** 

## **Important Dates**

NOVEMBER 1, 2024 | Abstracts Open DECEMBER 31, 2024 | Abstracts Due JANUARY 15, 2025 | Early Bird Registration Opens MARCH 7, 2025 | Manuscripts Due MARCH 31, 2025 | Regular Registration Opens MAY 1, 2025 | Final Manuscripts Due MAY 15, 2025 | Preliminary Program Published JUNE 6, 2025 | Registration Closes JUNE 15, 2025 | Welcome Reception JUNE 17, 2025 | Conference Banquet JUNE 18, 2025 | Conference Closing JUNE 18, 2025 | Technical Tours

#### **Organizing Committee**

Dr. Vikrant Aute, Co-Director, Center for Environmental Energy Engineering, University of Maryland

Dr. Yunho Hwang, Co-Director, Center for Environmental Energy Engineering, University of Maryland

Dr. Reinhard Radermacher, Director, Center for Environmental Energy Engineering, University of Maryland

Leanne Poteet, Program Secretariat, Center for Environmental Energy Engineering, University of Maryland, 4164A Glenn Martin Hall, College Park, MD 20742, USA, Tel. +1-301-405-7661, email: lpoteet@umd.edu

Beth Panitz, Communications Coordinator, Center for Environmental Energy Engineering, University of Maryland, 4164 Glenn Martin Hall, College Park, MD 20742, USA, Tel. +1-301-405-5439, email: bpanitz@umd.edu

### Themes

Thermophysical property measurements and data analysis Heat and mass transfer enhancements Boiling and condensation of refrigerants Two-phase flow and distribution issues Refrigerant charge measurement and reduction Low GWP refrigerants for vapor compression cycles Novel heat exchanger geometry designs and manufacturing processes Secondary heat transfer fluids Refrigerant oil properties and transport behaviors Absorption/adsorption processes New sorption fluids Frosting and defrosting processes in heat pumps Thermal energy storage processes

### Accommodations

The Hotel at The University of Maryland 7777 Baltimore Ave, College Park, MD 20740 USA Tel.: +1 (301) 277-7777

Cambria in College Park 8321 Baltimore Ave, College Park, MD 20740 USA Tel.: +1 (301) 615-9889

Room blocks for these two hotels nearest to campus will open when registration opens. For information on other area hotels, visit the **University of Maryland Visitor Website**.

### **Transportation**

**By plane:** The closest airports are Baltimore/Washington International (25 miles/40 km), Reagan National (16 miles/26 km) and Dulles International Airport (37 miles/60 km).

**By train:** Amtrak has service to Union Station in Washington, DC (8 miles/14 km) and New Carrollton, MD (6 miles/9 km).

**By Metro:** The Metrorail rapid transit system has a stop in College Park, with access from Union Station train station and Reagan National airport. Shuttle service is provided from the College Park Metro station to campus.

### Register at ceee.umd.edu/tptpr2025 | Questions? Contact us at tptpr2025@umd.edu