

## Seminar

# Thermophysikalische Eigenschaften / Thermophysical Properties

– Summer Term 2025 –

- 29<sup>th</sup> April 2025      **Hubert Blabus** (Master thesis)  
*Thermal Conductivity of Liquid Organic Hydrogen Carrier System Based on Benzyltoluene and its Hydrogenated and Oxygenated Derivatives*
- 6<sup>th</sup> May 2025        **Bara'a Al-Khateeb**  
*Dropwise Condensation Heat Transfer for Ethanol on Perfluoropolyether-Coated Copper Discs*
- 13<sup>th</sup> May 2025      **Pranay Kumar Chittam**  
*Characterization of Particle Diffusion under Confinement by Dynamic Light Scattering*
- 20<sup>th</sup> May 2025      **Julius Jander**  
*Solubility of Blowing Agents in Polymer Melts by Conventional and Optical Techniques*
- 27<sup>th</sup> May 2025      **Muhammad Saad Idrees**  
*Evaluation of Interfacial Heat Transfer Coefficient during Hot Stamping*
- 3<sup>rd</sup> June 2025        **Julius Kühl**  
*Heat Transfer during Condensation of the Zeotropic Mixtures of Propane and n-Pentane on Horizontal Single Tubes and in Tube Bundles*
- 10<sup>th</sup> June 2025     **Neda Sanchouli**  
*Interfacial Tension of Binary Mixtures Consisting of n-alkanes or 1-alcohols and Carbon Dioxide Using Molecular Dynamics Simulations and Surface Light Scattering*

- 17<sup>th</sup> June 2025      **Jörn Klose** (Master thesis)  
*Diffusion Coefficients in Liquid Polymers with Dissolved Blowing Agents by Molecular Dynamics Simulations*
- 18<sup>th</sup> June 2025      **Thomas Koller** (at „Tag des Department CBI“, Cauerstraße 4)  
*Characterization of Multiphase Systems in Process Engineering by the Investigation of Their Thermophysical Properties*
- 24<sup>th</sup> June 2025      **Patrick Schmidt**  
*Fick Diffusion Coefficients in Blowing-Agent-Loaded Polymer Melts by Dynamic Light Scattering*
- 1<sup>st</sup> July 2025        **Yongzhen Sun**  
*Viscosity and Interfacial Tension of Mixtures Consisting of  $\gamma$ -Butyrolactone, 1,4-Butanediol, and Hydrogen by Surface Light Scattering*
- 8<sup>th</sup> July 2025        **Dena Mombeini**  
*Thermal and Mutual Diffusivities of Binary Mixtures of  $\gamma$ -Butyrolactone and 1,4-Butanediol by Dynamic Light Scattering*
- 15<sup>th</sup> July 2025      **Kisal Senadeera** (Master thesis)  
*Diffusivities in Ternary Electrolyte Mixtures by Molecular Dynamics Simulations*  
and  
**Presentations within the Seminar “Thermophysical Properties of Working Materials in Energy Technology”**
- 22<sup>nd</sup> July 2025      **Milad Esfandiari** (Bachelor thesis)  
*Evaluation of Experiments for the Interfacial Heat Transfer Coefficient during Hot Stamping by the Energy Conservation Method*

Time:                Tuesday at 4:00 p.m. (unless stated otherwise above)  
Place:                AOT lecture room, Paul-Gordan-Straße 8, 91052 Erlangen

Erlangen, April 15, 2025  
Dr.-Ing. Michael Rausch  
Prof. Dr.-Ing. habil. Andreas Paul Fröba