

## Seminar

# Thermophysikalische Eigenschaften / Thermophysical Properties

– Summer Term 2019 –

Update June 03, 2019

14<sup>th</sup> May 2019

**Chathura Kankanamge** (Master thesis)

*Mass diffusivities of binary fluid mixtures consisting of methane, propane, and carbon dioxide by using molecular dynamics simulations*

21<sup>st</sup> May 2019

**Sejir Boubtane** (Bachelor thesis)

*Importance of thermophysical properties of liquid organic hydrogen carriers for the design of processes and apparatuses in energy technology*

28<sup>th</sup> May 2019

**Manuel Kerscher** (project summary)

*Thermophysical properties of liquid organic hydrogen carriers (LOHCs) at process-relevant conditions*

4<sup>th</sup> June 2019

**Frances Lenahan** (project summary)

*Liquid viscosity and surface tension of long-chained alkanes and alcohols with varying degree of branching by molecular dynamics simulations*

25<sup>th</sup> June 2019

**Maximilian Piszko** (project summary)

*Diffusivities accessible by dynamic light scattering across the two-phase boundary of an equimolar propane-methane mixture*

2<sup>nd</sup> July 2019

**Matthias Knoll** (project summary)

*Characterization of heterogeneous systems via the determination of the translational diffusion coefficient by dynamic light scattering*

9<sup>th</sup> July 2019

**Francisco Bioucas** (project summary)

*Effective thermal conductivity and diffusivities of dispersions with a liquid continuous phase*

23<sup>rd</sup> July 2019

**Ubaya Higgoda** (project summary)

*Improvement of the predictive power of molecular dynamics simulations for the determination of transport properties demonstrated for selected fluid systems*

30<sup>th</sup> July 2019

**Participants in the Seminar “Thermophysical Properties of Working Materials in Energy Technologies”**

Leo Strobel: *Energy storage technologies for excess electricity*

Deniz Dogru: *Comparison and thermodynamic analysis of different methods for hydrogen storage and transport*

Time: Tuesday at 4:00 p.m.

Place: AOT lecture room, Paul-Gordan-Straße 8, 91052 Erlangen

Erlangen, June 3, 2019

Dr.-Ing. Michael Rausch

Prof. Dr.-Ing. habil. Andreas Paul Fröba