

## Seminar

# Thermophysikalische Eigenschaften / Thermophysical Properties

– Summer Term 2021 –

**13<sup>th</sup> April, 2021**

**Manuel Kerscher**

*Characterization of Liquid Organic Hydrogen Carrier (LOHC) Systems by Light Scattering Techniques*

**20<sup>th</sup> April, 2021**

**Dr. Junwei Cui / Dr. Johannes Knorr**

*Surface Light Scattering for the Accurate Determination of Viscosity and Interfacial Tension of Non-Transparent Systems*

**27<sup>th</sup> April, 2021**

**Yuxin Zhang** (Master thesis)

*Measurement of the Effective Thermal Conductivity of Nanofluids by a New Guarded Parallel-plate Instrument*

**4<sup>th</sup> May, 2021**

**Francisco Eduardo Berger Bioucas**

*Experimental Determination and Modeling of the Thermal Conductivity of Nanofluids*

**11<sup>th</sup> May, 2021**

**Ramy Fathalla** (Bachelor thesis)

*Application of the Hard-Sphere Theory for Modeling the Dynamic Viscosity of Liquid Organic Hydrogen Carrier Systems and their Mixtures with Dissolved Hydrogen*

**18<sup>th</sup> May, 2021**

**Manuel Höppner** (Master thesis)

*Evaluation of Surface Designs for the Promotion of Dropwise Condensation of Fluids with Low Surface Tension in Heat Engineering Applications*

**1<sup>st</sup> June, 2021**

**Daniela Ayvazova** (Bachelor thesis)

*Determination of the Solubility of Hydrogen in Liquid Organic Hydrogen Carrier Systems by Raman Spectroscopy*

**8<sup>th</sup> June, 2021**

**Wangyu Sun** (Master thesis)

*Differential Dynamic Microscopy Method for the Determination of Particle Diffusion Coefficients*

**15<sup>th</sup> June, 2021**

**Claudio Dennstädt** (Master thesis)

*Fick and Thermal Diffusivities in Binary Mixtures Consisting of n-Hexane or 1-Hexanol with Dissolved Krypton and Sulfur Hexafluoride by Dynamic Light Scattering*

**22<sup>nd</sup> June, 2021**

**Tobias Berg** (Master thesis)

*Projektierung einer Versuchsanordnung zur Untersuchung des Wärmeübergangs bei der Kondensation von binären Gemischen aus Kohlenwasserstoffen an horizontalen Rohren und Rohrbündeln*

**29<sup>th</sup> June, 2021**

**Chathura Hewa Kankanamge**

*Electrolytes in Energy Technology - Importance of Diffusion Coefficients for their Applications*

**6<sup>th</sup> July, 2021**

**Tobias Klein**

*Thermophysical Properties of Liquids with Dissolved Gases as Working Fluids in Process and Energy Technology*

**13<sup>th</sup> July, 2021**

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

*Titles t.b.a.*

Time: Tuesday at 4:00 p.m.

Place: Zoom Meeting

Erlangen, March 29, 2021

Dr.-Ing. Michael Rausch

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