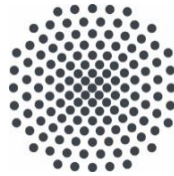




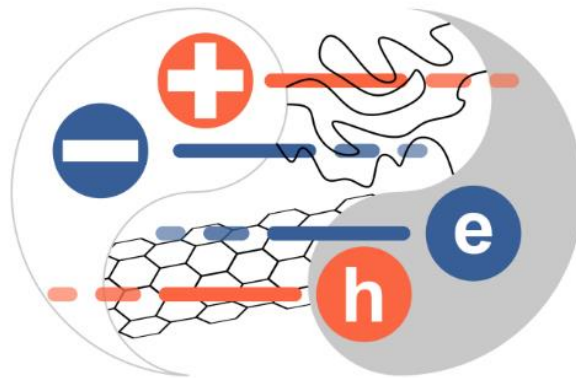
UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386



Universität Stuttgart

1st Workshop on

Mixed Ionic-Electronic Transport: From Fundamentals to Applications



Friday, 28th of October 2022

9:00 – 17:15 h

Location:

Internationales Begegnungszentrum (IBZ) Eulenhof

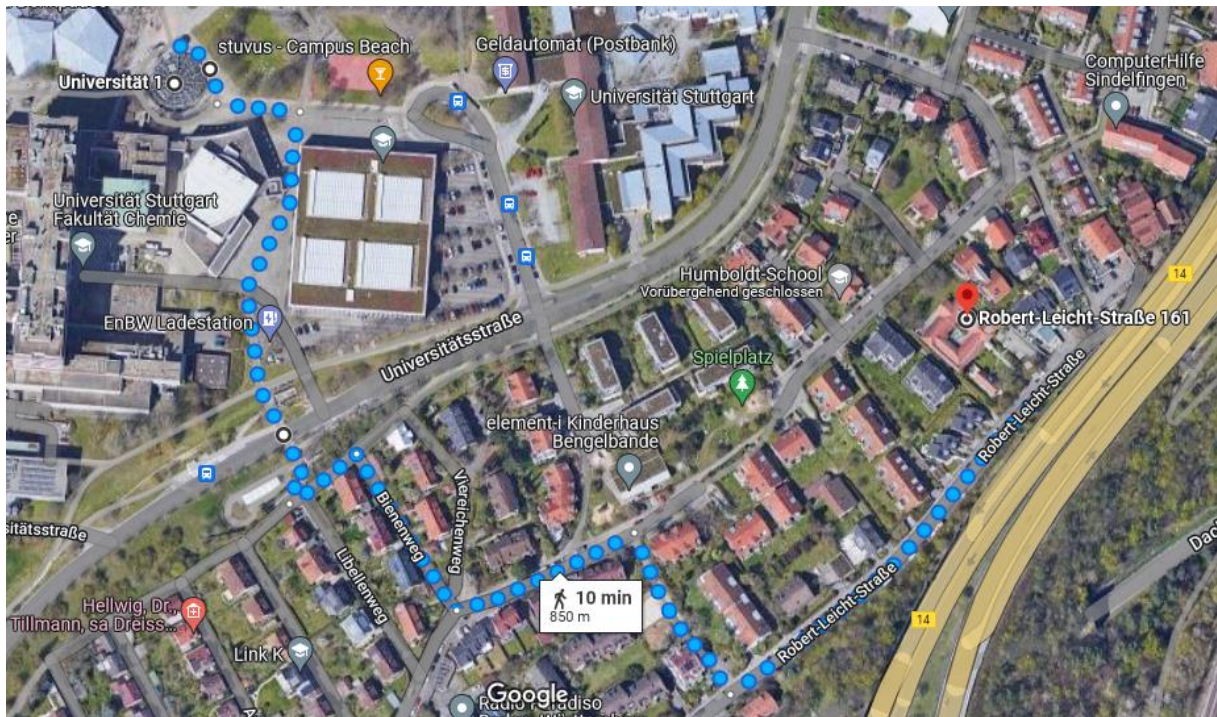
University of Stuttgart

Robert-Leicht-Straße 161
70569 Stuttgart

The Eulenhof is about 10 minutes walking-distance from the S-Bahn station “Universität”.

Please type Robert-Leicht-Straße 161 into your navigation systems.

Website: <https://www.beschaeftigte.uni-stuttgart.de/uni-services/infrastruktur/ibz/>



The Program of the Day

9:00 – 9:30 h	Get-to-know and Welcome
9:30 – 10:55 h	1 st Session
11:30 – 13:00 h	2 nd Session
14:00 – 15:25 h	3 rd Session
16:10 – 17:30 h	4 th Session & Concluding Remarks

9:00 - 9:30 h

Get-to-Know and Welcome

1st Session: 9:30 – 10:55 h, Chair: Prof. Ludwigs

9.30 - 10:15 h

Prof. Dr. Joachim Maier

Mixed Ionic-Electronic Conduction: Implications for Bulk and Interfaces

10:15 - 10:35 h

Prof. Dr. Felix Deschler

Designing Spin und Chirality in Hybrid Perovskites

10:35 - 10:55 h

JProf. Dr. Eva Blasco

Designing Functional Polymers for 3D/4D Microprinting

10:55 - 11:30 h

Short Coffee Break

2nd Session: 11:30 – 13:00 h, Chair: Dr. Schlaich

11:30 - 11:40 h

Xuping Yan (AK Mastalerz)

Highly Selective Binding of Nitrate by [2+3] Amide Cages

11:40 - 12:15h

Prof. Dr. Natalie Banerji (online)

Charge Transfer Dynamics and Short-Range Conductivity in Electrochemically Doped Conjugated Polymers

12:15 - 12:50 h

Prof. Dr. Esma Ismailova

Solution Processable Conducting Polymers in Wearable Health Monitoring Devices

12:50 - 13:00 h

Dominik Fauser (AK Steeb)

Rheological Characterization and Modelling of Functional Polymers – from Experiments Towards Numerical Predictions!

13:00 - 14:00 h

Lunch Break

3rd Session: 14:00 – 15:25 h, Chair: Prof. Steeb

14:00 - 14:20 h

Prof. Dr. Martijn Kemerink

Modeling of Charge and Energy Transport in Ionically Doped Organic Semiconductors

14:20 - 14:55 h

Prof. Dr. Igor Zozoulenko

Why does Solvent Treatment Increase Conductivity of PEDOT:PSS? Insight from Molecular Dynamics Simulations

14:55 - 15.05 h

Tobias Spratte (AK Selhuber-Unkel)

Controlling Actuation Function of Thermoresponsive pNIPAM Hydrogels by Microengineering Approaches

15:05 - 15:25 h

Dr. Alexander Schlaich

Effective Thomas-Fermi Screening Approach and Wetting Transition at Charge/Metal Interfaces

15:25 - 16:10 h

Coffee Break

4th Session: 16:10 – 17:25 h, Chair: JProf. Blasco

16:10 - 16:45 h

Prof. Dr. Y. van der Burgt

Organic Neuromorphic Electronics and Biohybrid Systems

16:45 - 16:55 h

Dr. Elisa Thauer (AK Klingeler)

C-Functionalized Oxides as Anode Material for Lithium Ion Batteries

16:55 - 17:05 h

Stephan Pflumm (AK Ludwigs)

Humidity-Dependent Mechanical Properties and Drug Release from Smart Hydrogel Patches

17:05 - 17:25 h

Prof. Dr. Jana Zaumseil

Polymer-Wrapped Carbon Nanotubes for Ion-Sensing with Water-Gated Transistors

17:25 - 17:30 h

Closing Remarks

Prof. Ludwigs / Prof. Zaumseil

Participants

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For your Notes



IPOC – Funktionspolymere
Prof. Dr. S. Ludwigs



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