

# Program

## 5th edition of the Young Researchers Seminar on Sustainable Material Cycles

### TUM Campus Straubing

▲ Hörsaal P1 (2<sup>nd</sup> floor)  
Petersgasse 5, 94315 Straubing

#### Thursday, 18<sup>th</sup> of September

12:00 - 01:00	pm	Arrival
01:00 - 01:30	pm	Welcome & Introduction <i>Prof. Dr. Magnus Fröhling, Technical University of Munich</i>
01:30 - 02:00	pm	Key Note <i>Dr. Elena Corella Puertas, Technical University of Munich</i>
02:00 - 03:00	pm	Presentation Session 1: Data Processing & MFA  <i>Presentation 1:</i> See What Excel Can't See: A Graph-Based Approach to Supply Chain Transparency <i>Leonie Engemann, University of Augsburg</i>  <i>Presentation 2:</i> Modelling Long-Term Plastic Recycling Potential in Germany's Building and Infrastructure Sector: A High-Resolution Dynamic Material Flow Approach <i>Dr. Sarah Schmidt, University of Kassel</i>
03:00 - 03:30	pm	Coffee Break & Networking
03:30 - 04:30	pm	Presentation Session 2: MFA  <i>Presentation 3:</i> Development and Validation of a forest-based Bioeconomy Cluster <i>Magnus Wagner, Technical University of Munich</i>

*Presentation 4:*

**Plastic Film Recycling in Germany: Material Flows and Circularity Gaps**

*Lucia Aguirre Molina, University of Kassel*

04:30 - 05:00	pm	Coffee Break & Networking
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05:00 - 06:00	pm	Presentation Session 3: MFA
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*Presentation 5:*

**Material Flow Analysis of the Resource Requirements for Wind Power Capacity Expansion in Germany through New Installations and Repowering**

*Riccarda Hieke, University of Bayreuth*

*Presentation 6:*

**Assessing Secondary Raw Material Supply for the EU Twin Transition: A dynamic MFA of End-of-Life Vehicles**

*Lukas Feldmann, Empa, Swiss Federal Laboratories for Materials Science and Technology*

06:00	pm	End of Day 1
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07:00	pm	Dinner <i>Wirtshaus zum Geiss</i> <i>Theresienpl. 49, 94315 Straubing</i> <i>(at own expense)</i>
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## Friday, 19<sup>th</sup> of September

08:30 - 09:00 am Arrival

09:00 - 10:30 am Presentation Session 4: LCA

*Presentation 7:*

Resource and emission savings from circular economy strategies for passenger vehicles in China's provinces

*Huimei Li, University of Freiburg*

*Presentation 8:*

Towards sustainable high-performance materials: Reducing the environmental footprint of CMCs through Circular Economy approaches

*Florian Halter, University of Augsburg*

*Presentation 9:*

Life cycle assessment of zinc recycling and its challenges

*Afsoon Mansouri Aski, University of Bayreuth*

10:30 - 11:00 am Coffee Break & Networking

11:00 - 12:00 am Presentation Session 5: LCA

*Presentation 10:*

Process Simulation-Based Environmental Assessment of Cathode Active Material Synthesis for Lithium-Ion Batteries

*Babatunde Omojola, University of Bayreuth*

*Presentation 11:*

Driving Sustainability: Circular Materials in Automotive Design

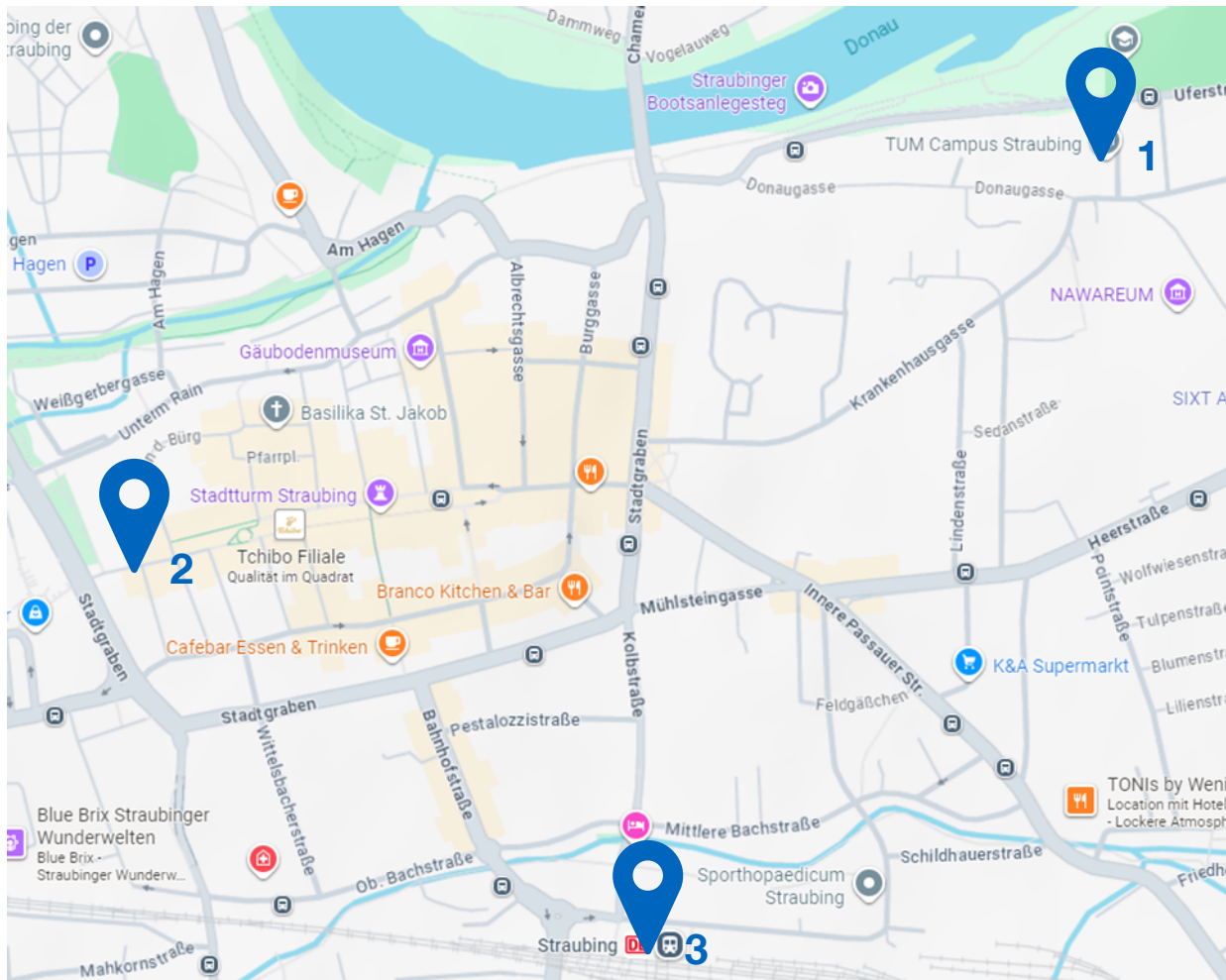
*Inka Hahn, Technical University of Munich*

12:00 - 01:00 pm (Small) Lunch & Networking

01:00 - 02:30 pm Campus Tour

02:30 pm End of Day 2

## Locations



### 1 TUM Campus Straubing, Hörsaal P1

Petersgasse 5  
94315 Straubing

### 2 Wirtshaus zum Geiss

Theresienpl. 49  
94315 Straubing

### 3 Straubing Train Station