DEAR PARTICIPANTS!

On behalf of the Volkswagen Foundation, we are pleased to welcome you to the workshop ‘Towards Circularity: Sustainable Materials and Resource-based Processes’. The purpose of the meeting is to discuss research gaps and practice transfer for a sustainable resource transformation. To this end the round table brings together engineering and natural sciences.

The workshop is exploring ways how to close the loop for a more resource efficient and green production. The focus is on scientifically unsolved problems and future approaches to materials or substances, product design, and processes. Given the high resource consumption, in particular in (post-)industrialized societies, achieving a transformation to sustainable production and material use is an utmost societal goal (SDG 12). With climate change, a shift to non-fossil based resources and energy-efficient processes are key. Further, recent crisis such as the Covid-19 pandemic and the Ukraine conflict have resulted in interrupted supply chains making resource efficiency, substitution, pre-, re- and up-cycling ever more important. Rather than just recycling waste streams, a thinking from a product and lifecycle perspective and designed recyclability of goods is needed.

It is a pleasure to meet you in Hanover and to welcome you at this workshop. We wish you two interesting days with exciting discussions!

Yours sincerely,

ULRIKE BISCHLER, Program Director

Adelheid Wessler, Head of Team Societal Challenges

MARIJANA PLAZANIC & MAREIKE RÜßMANN, Organization
PROGRAM
MONDAY, SEPT 12, 2022

5:00 P.M.  REGISTRATION AND COFFEE/TEA

6:00 P.M.  Welcome and Introduction
           Adelheid Wessler, Ulrike Bischler,
           Volkswagen Foundation, Hanover, Germany

6:15 P.M.  Speed dating
           introducing yourself with your research interests

6:30 P.M.  Lightning Talks I (10 min. each)
           Moderation: Pavel Dutow, Volkswagen Foundation

           De-Manufacturing 4.0
           Wim Dewulf, KU Leuven, Belgium

           Sustainable E-waste Recycling
           Gesa Beck, SRH Berlin University of Applied Sciences,
           Germany

           Sustainable Chemistry und Material Resources
           Klaus Kümmerer, Leuphana University Lüneburg, Germany

           Chemical and Biological Plastics Upcycling
           Nick Wierckx, Forschungszentrum Jülich, Germany

7:30 P.M.  DINNER
Tuesday, Sept 13, 2022

9:00 A.M.  **Lightning Talks II** (10 min. each)
Moderation: Tobias Schönwitz, Volkswagen Foundation

- **Valorization of food waste**
  Jens Ejbye Schmidt, University of Southern Denmark, Odense

- **Latex from the Dandelion Taraxacum brevicorniculatum**
  Christian Schulze-Gronover, Fraunhofer IME, Münster, Germany

- **Circular Economy of Bioplastics**
  Sonja Herres-Pawlis, RWTH Aachen, Germany

- **Prospects and Bottlenecks of Plastics Recycling**
  Hans-Josef Endres, University of Hanover, Germany

10:15 A.M.  **DISCUSSION/CONCLUSION OF THE INPUTS**

- Where do we stand?
- Where do we want to go?

11:00 A.M.  **COFFEE BREAK**

11:30 A.M.  **WORLD CAFE / GROUP WORK**

- What should be the guiding objective(s) of funding?
- Please design an application template (= key questions to be answered in a proposal), also from a reviewer’s perspective.
- What would be ideal project constellations to advance the field and to achieve impact, including transfer into practice?
FOUR TABLES HOSTED BY
Markus Antonietti, Max Planck Institute of Colloids and Interfaces, Postdam-Golm
Christoph Helbig, University of Bayreuth
Christa Liedtke, Wuppertal Institut für Klima, Umwelt, Energie
Kai Sundmacher, Max Planck Institute for Dynamics of Complex Technical Systems, Magdeburg

1:00 P.M.  Lunch

2:00 P.M.  Presentation
results of the group work (tables 1 to 4)

2:30 P.M.  Structured Discussion
Moderation: Adelheid Wessler, Volkswagen Foundation

- What could be a common focus and a realistic aim for funding?
- To what extent is interdisciplinarity purposeful?
- What are good measures to stimulate practice transfer?
- How to measure success of funding?
- What else should the Foundation consider when designing a framework?

4:00 P.M.  FAREWELL COFFEE/TEA

DEPARTURE
OPTIONAL WALK IN THE GARDEN
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<tr>
<th>Name</th>
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<td>Antonietti</td>
<td>Markus</td>
<td>Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Potsdam-Golm</td>
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<td>OFFIS e.V. - Institut für Informatik, Bereich Produktion, Oldenburg</td>
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<td>Wierckx</td>
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INFORMATION

CONFERENCE VENUE

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Herrenhausen Palace
Herrenhäuser Straße 5
30419 Hannover

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