

**Program of the 10th S3C Summer School on
Sustainable Chemistry for Sustainable Development
08.07.2024 – 12.07.2024, Leuphana University, Lüneburg**

MONDAY, 8 JULY PART1: CONCEPTS OF SUSTAINABLE CHEMISTRY

8:30am – 9:00am Registration (Location: Lecture Hall 5 Leuphana University)

9:00am – 9:05am Welcome by the Hosting Institutions

9:05am – 9:15am Prof. Dr. Klaus Kümmerer, ISC3 R&EH / Leuphana University, Lüneburg, Germany

9:10am – 9:20am tba

9:20am – 9:30am Associate Prof. Dr. Emma Strömberg, Swedish Environmental Research Institute, Sweden

9:30am – 9:35am Dr. Thomas Wanner, ISC3, Germany

9:35am – 9:35am Prof. Dr. Klaus Kümmerer, ISC3 R&EH / Leuphana University, Lüneburg, Germany

9:35am – 11:00am Sustainable Chemistry in a Nutshell

Prof. Dr. Klaus Kümmerer, ISC3 R&EH / Leuphana University, Lüneburg, Germany

11:00am – 11:30am Coffee Break

11:30am – 12:30pm Introductory round – expectations and experiences

12:30pm – 2:00pm Campus tour + Lunch Break

2:00pm – 3:00pm

Sustainable Chemistry of Renewable Resources for a Safer and Healthier Present and Future

Prof. Dr. Vania Zuin Zeidler Leuphana University, Lüneburg, Germany

3:00pm – 4:00pm

tba

4:00pm – 4:20pm

Coffee Break

4:20pm – 4:50pm

Education in sustainable chemistry study programmes

Rebecca Holtmann, ISC3 R&EH / Leuphana University, Lüneburg, Germany

4:50pm – 5:00pm

Feedback Round and Organizational Matters, Links and Lessons Learned

6:00pm

Welcome Dinner

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TUESDAY, 9 JULY **PART 2: Safe-and-Sustainable-by-Design**

9:00am – 9:10am	Introduction to 2nd day Prof. Dr. Klaus Kümmerer, ISC3 R&EH / Leuphana University, Lüneburg, Germany
9:10am – 10:10am	European Chemicals Strategy for Sustainability – Safe-and-Sustainable-by-Design (SSbD) Associate Prof. Dr. Emma Strömberg, IRISS / Swedish Environmental Research Institute, Sweden
10:10am – 11:10am	Introduction to Benign by Design Prof. Dr. Klaus Kümmerer, ISC3 R&EH / Leuphana University, Lüneburg, Germany
11:10am – 11:30am	Coffee Break
11:30am – 12:30pm	Towards a Circular Economy: Understanding and Quantifying Raw Material Cycles on Regional and Global Scale Dr. Antonia Loibl, Competence Center Sustainability and Infrastructure Systems, Fraunhofer Institute for Systems and Innovation Research ISI, Germany
12:30pm – 1:30pm	Lunch Break
1:30pm – 2:00pm	How can we apply the framework by JRC on SSbD to the pharmaceutical sector? Neele Puhlmann, Leuphana University, Lüneburg, Germany
2:00pm - 2:30pm	Challenges of implementation SSbD in the nanomedical field Dr. Johanna Scheper, BioNanoNet Forschungsgesellschaft mbH, Austria
2:30pm – 3:00pm	Coffee Break
3:00pm – 4:00pm	Screening level approach to support companies in making safe and sustainable by design decisions at the early stages of innovation Dr. Lisa Pizzol, GreenDecision srl, Italy
4.00pm – 5.00pm	Networking Session
5:00pm – 5:10pm	Organizational Matters
5:15pm	<i>Group picture (meeting point Lecture Hall 5)</i>

WEDNESDAY, 10 JULY **PART 2: Safe-and-Sustainable-by-Design**

9:00am – 9:10am **Introduction to 3rd day**
Associate Prof. Dr. Emma Strömberg, Swedish Environmental Research Institute, Sweden

9:10am – 10:10am **Value chain perspective: Does the SSbD framework support innovation?**
Anne Chloe Devic, SSbD Consulting Europe for CEFIC

10:10am – 11:10am **Integration of tools for Risk Assessment and Life Cycle Assessment in the context of SSbD**
Dr. Tomas Rydberg, PARC / Swedish Environmental Research Institute, Sweden

11:10am – 11:30am **Coffee break**

11:30am – 12:30pm **Sustainability Simulation of Novel Lubricants following SSbD Principles**
Dr. Jonas Hoffmann, GreenDelta, Germany

12:30pm – 1:30pm **Lunch Break**

<p>1:30pm – 4:00pm</p>	<p>Workshop I SSbD Case Studies and Value Chain specific Roadmaps Anne Chloe Devic, IRISS / Cefic and Cris Rocca, IRISS / University of Birmingham, United Kingdom</p>	<p>Workshop II SSbD Supportive Roadmap Dr. Lya G. Soeteman-Hernandez, IRISS / National Institute for Public Health and the Environment (RIVM), Netherlands and Dr. Christina Apel, IRISS / Leuphana University, Germany</p>	<p>Workshop III SSbD toolbox: Practical case examples and exercises of SSbD Dr. Tomas Rydberg, PARC / Swedish Environmental Research Institute, Sweden and Associate Prof. Dr. Emma Strömberg, Swedish Environmental Research Institute, Sweden</p>
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4:15pm – 5:15pm **Plenary: Reporting and Discussion of Main Findings from the Workshops**
Participants, Prof. Dr. Klaus Kümmerer, ISC3 R&EH / Leuphana University, Lüneburg, Germany, Associate Prof. Dr. Emma Strömberg, Swedish Environmental Research Institute, Sweden

5:15pm – 5:30pm **Organizational Matters**

THURSDAY, 11 JULY

PART 2: Excursion

Excursion to: International Flavors & Fragrances Inc. (IFF) Industrial Park Walsrode

FRIDAY, 12 JULY

PART 2: Safe-and-Sustainable-by-Design

9:00am – 11:00am

Poster session

Participants, moderation Prof. Dr. Klaus Kümmerer and Team, ISC3 R&EH / Leuphana University Lüneburg, Germany

11:00am – 11:15am

Coffee Break

11:15am – 12:45pm

Lessons Learned and My Take Home Message

Participants, moderation Prof. Dr. Klaus Kümmerer and Team, ISC3 R&EH / Leuphana University Lüneburg, Germany

12:45pm – 1:00pm

Wrap up, Certificates, Concluding Remarks and Farewell

Prof. Dr. Klaus Kümmerer and Team, ISC3 R&EH / Leuphana University Lüneburg, Germany

1:00pm

End of Summer School & Departure of Participants