





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 PA	ART1: CONCEPTS OF SUSTAINABLE CHEMISTRY
8:30am – 9:00am	Registration (Location: Lecture Hall 5 Leuphana University)
9:00am – 9:20am 9:20am – 9:30am 9:30am – 9:40am	Welcome by the Hosting Institutions Prof. Dr. Klaus Kümmerer, ISC3 R&EH / Leuphana University, Lüneburg, Germany Associate Prof. Dr. Emma Strömberg, Swedish Environmental Research Institute, Sweden Dr. Thomas Wanner, ISC3, Germany
9:40am – 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. Dr. Vânia Zuin Zeidler Leuphana University, Lüneburg, Germany
3:00pm –4:00pm	Envisioning Regenerative Futures: A Systems Approach to Guide Transformations towards Sustainable Chemistry Dr. Dr. Johannes Halbe, University of Osnabrück, Germany
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 Mälzer Brau- und Tafelhaus, Heiligengeiststr. 43







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 SSbD framework by JRC to the pharma 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	Group picture (meeting point Lecture Hall 5)







WEDNESDAY, 10 JULY	PART 2: Safe-and-Sustainable-by-Design		
9:00am – 9:10am	Introduction to 3 rd 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		
1:30pm – 4:00pm	Workshop I SSbD in practice in your company! Anne Chloé Devic, IRISS / SSbD Consulting in collaboration with Cefic and Cris Rocca, IRISS / University of Birmingham, United Kingdom	Workshop II SSbD Roadmap for the Battery Innovation Landscape Dr. Lya G. Soeteman- Hernandez, IRISS / National Institute for Public Health and the Environment (RIVM), Netherlands and Dr. Christina Apel, IRISS / Leuphana University, Germany	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
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		
7:45am	Departure from Lüneburg, Universitätsallee 1, in front of the central building (be on time)		
9:30am	Arrival, Welcome and Introduction to the site Dr. Roland Adden/Dr. Martin Lohrie		
10:30am	Lecture 1: Using renewable feedstock to create functional materials Dr. Sebastian Foertsch, R&D Manager Rheology and Autoclave Lab Lecture 2: Enabling the formulation of pharmaceuticals Dr. Carsten Huettermann, Senior Lead Application Scientist Pharma		
12:30pm – 1:30pm	Lunchbreak in the canteen		
1:30pm – 3:30pm	Guided Tour of Lab or Production		
3:30pm	End of excursion and return to Lüneburg		
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, 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		