



1st BIOCEB Summer School

28. June – 2. July 2021, Tallinn ESTONIA

All times are given in Estonian local time (EET)

Monday, 28th of June

Room: TalTech, main building, SOC-413

9:45 – 10:00 Welcome from Prof. Jaan Kers and Dr. Yevgen Karpichev

10:00-12:30 **Wood and Food Technology projects at TalTech** - Presentations from TalTech research groups (30 min per presentation + 10 min Q&A)

Session Chair: Prof. Jaan Kers

10:00 - 10:40 Dr. Tiit Lukk, Lignin valorization in the framework of the ResTA project

10:40 - 11:20 Dr. Illia Krasnou, Cellulose esterification in solution and in melt

11:20 - 11:30 Coffee break

11:30 - 12:10 Prof. Petri-Jaan Lahtvee, Synthetic biology – an enabling technology for biosustainability

12:10 - 12:45 Dr. Christopher Glaab Hunt, Accelerating Renewable Solutions Through Fundamental Knowledge

12:45-13:30 Lunch

13:45 -15:45 Site visits in TalTech Campus. Students are divided into two groups for visiting. 30min lab introduction + 15min travelling time. See table below

Meeting point: in front of lunch café

1. Department of Chemistry and Biotechnology, Dr. Tiit Lukk, Dr. Maria Kulp (address: Akadeemia tee 15)
2. Laboratory of Polymer Chemistry and Technology, Dr. Elvira Tarasova, Dr. Illia Krasnou (TalTech main building, address: Ehitajate tee 5, dept. IV)

Group	Dept of Chemistry and Biotechnology	Laboratory of Polymer Chemistry and Technology
Group A: 7 AgroParisTech + 4 Poly Chem students	13:45 – 14:45	14:45 – 15:45
Group B: TalTech (13 Chem and Biotech students)	13:45 – 14:45	14:45 – 15:45



16:00 - 17:00 BIOCEB **Associated partners** introductions

- 1) Dr. Vijai Gupta, Scotland's Rural College, UK
- 2) Prof. Ahmed Abdel-Azeem, Suez Canal University, Egypt

Tuesday, 29th of June (Workshop day)

Room: TalTech, main building, SOC-413

Session Chair: Dr. Yevgen Karpichev

9:00 – 10:30 **Workshop**, Dr. Andrew John Hunt “Elemental sustainability”. Khon Kaen University, Thailand. Online event

10:30 - 11:45 Prof. Nicholas Gathergood “Recent advances in green chemistry, sustainable chemistry and engineering”. University of Lincoln, UK. Online event

11:45– 12:00 – Coffee break

12:00 – 13:45 **Workshop**. Dr. V. S. Uma “Contemporary Tools for Life Cycle Assessment“. Indira Gandhi Center for Nuclear Research, India. Online event

13:45-14:30 Lunch

14:30– 16:00 Presentation and round table discussion. Prof. Erkki Karo, Nurkse Institute, „Strategy and policy Outlook for Bioeconomy in Europe”

16:00-16:15 Coffee break

16:15 – 17:30 Prof. Klaus Kümmerer “Frameworks of green and sustainable chemistry: how they are connected?”, Institute for Sustainable Chemistry, Leuphana University, GERMANY. Online event

17:30 – 18:30 R&D Manager Peep Pitk „Graanul Biotech company presentation“. Graanul Biotech, Estonia.

Wednesday 30th of June

Visiting industrial sites and University of Tartu

Meeting point: in front of SOC-building (in front of lunch cafe)

7:30-10:45 Travel to Helme

11:00-12:45 Industrial site visit: CombiWood, Helme

13:00–14:00 Travel to Tartu

14:00-14:45 Lunch

15:00–17:00 Visit to Tartu University Institute of Technology and its laboratories. (Prof. Mart Loog, Dr. Kaspar Valgepea)



17:00–19:30 Return to Tallinn

Thursday 1st of July

Visiting industrial site

Meeting point: in front of SOC-building (in front of lunch cafe)

8:00-10:00 Travel to Kunda

10:00-12:00 **Industrial site visit:** *Estonian Cell* biogas processing plant <https://www.estoniacell.ee/en/>

13:00-14:00 Lunch in Rakvere

14:00-15:30 Guided tour to the castle of Rakvere

16:00-18:00 Travelling back to Tallinn

18:00-20:00 BIOCEB **Associated partners** introductions

- 1) Dr. Fabio Apone, Anterra Biosciences, ITALY
- 3) Dr. Andrew John Hunt, Khon Kaen University, Thailand
- 4) Richard Alan Gross, Rensselaer Polytechnic Institute (RPI), US
- 5) Monique Axelos, INRAE, France

Friday 2nd of July

Room: [TalTech, main building, SOC-413](#)

Session Chair: Dr. Yevgen Karpichev

10:00-12:30 **Circular Bioeconomy and Innovations**

10:00-11:15 Liina Joller-Vahter, MBA. “Blue Economy in blue economy”, University of Tartu

11:15-11:30 Coffee break

11:30-12:30 Rainis Venta, PhD. “Start-up development in the contemporary world”, TalTech/Icosagen Cell Factory OÜ

12:30–13:30 Lunch

13:30-14:15 Poster session of Green Line projects

14:15-17:00 Flash presentations of Green Line Project teams: future research plans and discussion (5-10 min per GLP team + 20 min Q&A)

Drinks and snacks are offered during the poster session

17:00 Concluding remarks