

WWSC Workshop June 2023

June 19 – 21

Sånga-Säby, Ekerö

Monday June 19

09.00 *Bus leaving Norrköping Resecentrum*

10.30 *Bus leaving Stockholm C*

12.30 *Lunch*

13:30 Welcome address

Eva Malmström, Center Director

Presentation of WWSC 3.0 Programs and WWSC Academy

I. Materials biorefinery – Merima Hasani, Chalmers

II. Wood components and Interfaces – Eva Malmström, KTH

III. Processing and Structural materials – Daniel Söderberg, KTH,

IV. Functional materials – Mats Fahlman LiU

WWSC Academy – Anette Larsson, Chalmers

14:30 Innovative Biomaterials from Trees

Paul Gatenholm, Chalmers

15:15 *Break (possibilities to check in)*

16:15 Graduation ceremony WWSC Academy

17:15 Poster session

19:00 *Dinner*

Tuesday June 20

- 09:00** **Processing Cellulose Composites Using Cellulose-Based Emulsions**
Stephen Eichhorn, University of Bristol, UK
- 09:45** **Electronics and electrochemical energy technology made from forest-based materials**
Magnus Berggren, LiU
- 10:30 *Break*
- 11:00** **Sustainability workshop**
Fredrik Lundell, KTH
- 13:00 *Lunch*
- 14:00** **Biotechnology for biomaterials**
Lauren McKee, KTH
- 14:30** **Evaluation of the recombinant cutinase from *Fusarium solani* and *Cryptococcus* to extract fatty acids from suberin**
Wissal Ben Ali, Chalmers
- 14:45** **SEM combined with FIB cross-sections revealing the impact of steam explosion pre-treatment on the Norway spruce wood microstructure**
Maria Brollo, Chalmers
- 15:00** **Conjugated polymers – functionalization for cellulose-based hybrid materials**
Renee Kroon, LiU
- 15:30 *Break*
- 16:00** **Synthesis of Biobased Chemically Recyclable and Enzymatically Degradable Schiff base Polyesters for Circularity**
Sathiyaraj Subramaniyan, KTH
- 16:15** **Biogenic carbon flows – Status and possibilities**
Stefan Svensson, RISE
- 17:00** **Activity**
- 19:00 *Dinner*



Wednesday June 21

09.00 *Latest check out from hotel room*

09:00 Nanofibrillar foams: from single fibrils to phonon scattering to upcycling of textile waste

Lennart Bergström, Stockholm University

09:45 *Break (WWSC LG meeting)*

10:50 From wood towards textile waste as raw materials for fabricating porous cellulose-based materials for thermal insulation and water purification

Varvara Apostolopoulou Kalkavoura, Stockholm University

Exploring structure-property relationships in lignin-based thermosets

Iuliana Ribca, KTH

Polysaccharide-based wood adhesives

Tijana Todorovic, KTH

Biorefining for well-defined lignin with tunable properties

Maria Karlsson, KTH

Exploring the use of cellulose as a precipitation agent of metal ions for metal recycling

Billy Hoogendoorn, KTH

11:50 Anisotropic nanofibrillar hydrogels: fundamentals and electro-mechanical applications?

Tobias Bensefelt, KTH

12:20 Concluding remarks

12:30 *Lunch*

13:45 Buses leaving Sånge-Säby, arriving at Stockholm C ca 15.00, and Norrköping Resecentrum ca 16.00.

