

WWSC workshop June 2020

June 15 – 16

Online (Zoom meeting)

Monday June 15

Researchers' response to crisis

- 09:00** **Welcome and introduction**
Eva Malmström, Professor, Center Director
- 09:05** **Multiplex analysis of immune response against Covid**
Sophia Hober, Professor
KTH
- 09:35** **Every breath you take - material properties for face masks**
Lars Fingal, Material Development Director Nonwoven
Essity
- 10:05** **How to build from a crisis – Hallandsås Construction
Project as Showcase**
Helena Parker, Chief Health and Safety Officer
Skanska Sweden
- 10:35* *Break*
- 10:45** **Sewage system as an indicator for COVID-19**
Zeynep Cetecioglu Gurol, Assoc. Prof.
KTH
- 11:05** **Towards democratization of nucleic acid tests**
Mahiar Hamedi, PhD
KTH
- 11:25** **Nanocellulose technologies to advance the nexus of
food-energy-water systems**
Benjamin Hsiao, Professor
Stony Brook University, USA
- 12:00** **Concluding remarks**
- 12:05* *End of workshop day 1*

Tuesday June 16

The future research within WWSC's five program areas

- 09:00** **Welcome and introduction**
- 09:05** **Wood hemicelluloses as hydrocolloids**
Kirsi Mikkonen, Assist. Prof.
University of Helsinki, Finland
- 09:35** **Understanding enzyme-substrate interactions of
Glucuronoyl Esterases, enzymes involved in decoupling
lignin and carbohydrates**
Scott Mazurkewich, PhD
Chalmers
- 09:50** **Ion-selective electrocatalysis: quinones conversion on
conducting polymer electrodes**
Mikhail Vagin, PhD
LiU
- 10:05* *Break*
- 10:15** **High performing flame-retardant materials from surface or
bulk nanostructuring of biobased components**
Federico Carosio, Assoc. Prof.
Politecnico di Torino, Italy
- 10:45** **Dewatering of cellulosic materials: From understanding in
nanoscale towards industrial applications**
Nabin Karna, PhD
Chalmers
- 11:00** **Bark biorefinery – a source for novel materials**
Barbara Rietzler, PhD
KTH
- 11:15* *Break*
- 11:25** **Lignin nanoparticles as enablers of green and sustainable
chemistry processes**
Mika Sipponen, Assist. Prof.
Stockholm University
- 11:55** **Concluding remarks**
- 12:05* *End of workshop*