



**Program, 7th Nordic Wood Biorefinery Conference
(NWBC 2017), Stockholm, Sweden, March 28-30, 2017**

Monday March 27

- Tour to LignoCity with the LignoBoost Demo Plant (whole-day trip)
- Evening (17.00-19.30): Open house with lab tours at RISE Bioeconomy,
Address: Drottning Kristinas väg 61, Stockholm

Conference venue: Courtyard Stockholm Kungsholmen
Address: Rålambshovsleden 50, Stockholm

Tuesday March 28

Opening – Peter Axegård, RISE Bioeconomy		
9.00-9.10	Welcome	Peter Axegård, RISE Bioeconomy, Sweden
9.10-9.35	Towards a cellulose-based society – current market and consumer trends	Fredrik Aldaeus, RISE Bioeconomy, Sweden
9.35-10.00	Metsä Group's bioproduct mill in Äänekoski	Niklas von Weymarn, Metsä Group, Finland
New biorefinery concepts – Christine Chirat, Grenoble INP-Pagora		
10.00-10.25	Strategies to Improve the enzymatic hydrolysis of hardwood biomass produced by the TMP-Bio process	Luis F Del Rio, FPInnovations, Canada
<i>10.25-10.50</i>	<i>Break</i>	
10.50-11.15	Lignocellulosic biomass fractionation for the production of inexpensive sugars using low-cost protic ionic liquids	Florence Gschwend, Imperial College, United Kingdom
11.15-11.40	Fractionation of recycled wood for biorefineries by 2-stage alkaline oxidation	Matti Siika-aho, VTT, Finland
11.40-12.05	The ENERLIG project: Development of a sulphur free process in a pulp mill biorefinery	Christine Chirat, Grenoble INP – Pagora, France
<i>12.05-13.30</i>	<i>Lunch and Poster session 1</i>	



Hemicellulose and sugar products – Herbert Sixta, Aalto University		
13.30-13.55	Spruce gum – a new natural Nordic stabilizer	Kirsi S Mikkonen, University of Helsinki, Finland
13.55-14.20	Polyesters and -amides from wood: Sugar conversion to furan dicarboxylic acid and to muconic acid	Juha Linnekoski, VTT, Finland
14.20-14.45	The synthesis of furfural from xylose in a biphasic system comprising water and a new organic solvent	Cornelius Staude, Thünen Institute of Agricultural Technology, Germany
<i>14.45-15.10</i>	<i>Break</i>	
15.10-15.35	Valorization of a kraft dissolving pulp mill pre-hydrolysate	Luis del Rio, FPInnovations, Canada
15.35-16.00	Development of a bioprocess with high energy efficiency for the flexible production of n-butanol/ethanol integrated to a kraft pulp mill	Adriano P Mariano, University of Campinas (UNICAMP), Brazil
16.00-16.25	St1 Cellunolix™ bioethanol demonstration plant process is based on softwood as a raw material	Tom Granström, St1 Biofuels Oy, Finland

19:00 Conference dinner with entertainment at Courtyard

Wednesday March 29

Nanocellulose and other cellulose products – Oded Shoseyov, Hebrew University of Jerusalem		
8.30-8.55	Cellulose based thermoplastics	Jarmo Ropponen, VTT, Finland
8.55-9.20	Towards a more-cost-efficient paper and board making using microfibrillated cellulose	Eva Ålander, RISE Bioeconomy, Sweden
9.20-9.45	Mild oxalic acid-catalysed hydrolysis as a novel approach to prepare cellulose nanocrystals	Wenyang Xu, Åbo Akademi University, Finland
9.45-10.05	The eucalyptus biorefinery programme at the Navigator company: production and application of nanofibrillated cellulose	Paula Pinto, The Navigator Company, Portugal
<i>10.05-10.30</i>	<i>Break</i>	
10.30-10.55	Nano bio mimetics - Materials for the future	Oded Shoseyov, Hebrew University of Jerusalem, Israel
Carbonised products – Peter Axegård, RISE Bioeconomy		
10.55-11.20	Sustainable carbon materials and chemicals from biomass hydrothermal processes	Magdalena Titirici, Queen Mary Univ. of London, UK
11.20-11.45	Structural carbon fibre from kraft lignin	Darren Baker, RISE Bioeconomy, Sweden
11.45-12.10	Effect of process conditions on lignin colour: a carbon black case study	Marzouk Benali, CanmetENERGY, Canada
<i>12.10-13.10</i>	<i>Lunch</i>	
Lignin products – Richard Gosselink, Wageningen University and Research		
13.10-13.35	Biomaterial insight: Lignin 4.0	Petri Vasara, Pöyry Management Consulting, Finland
13.35-14.00	Lignin: a biobased raw material for the production of chemicals and materials?	Richard Gosselink, Wageningen University and Research, the Netherlands
14.00-14.25	The LignoCity initiative	Per Tomani, RISE Bioeconomy, Sweden

<i>14.25-14.50</i>	<i>Break</i>	
14.50-15.15	Concrete plasticizers and versatile dispersants from LigniOx lignins	Tiina Liitiä, VTT, Finland
15.15-15.40	Electrochemical depolymerisation of lignin in a deep eutectic solvent	Davide Di Marino, Aachen University, Germany
15.40-16.05	CatLignin – Reactive lignin for phenol replacement in resins	Hanne Wikberg, VTT, Finland
16.05-16.30	Mitigating trade barriers by standardized determination of lignin molar mass	Anna Jacobs, RISE Bioeconomy, Sweden
16.30-16.55	Value chain for production of bio-oil from kraft lignin for use as bio jet-fuel	Marie Anheden, RISE Bioeconomy, Sweden

17:00 Mingle with refreshments

Thursday March 30

Industrial biorefineries – Jim Parkås, Södra		
8.30-8.55	SunPine biorefinery - An evolutionary story	Valeri Naydenov, SunPine, Sweden
8.55-9.20	The path forward for Fibria's biorefinery	Matheus Antunes Guimarães, Fibria, Brazil
9.20-9.45	The next generation LignoBoost – Tailor made lignin production for different lignin bio-product markets	Henrik Wallmo, Valmet, Sweden
<i>9.45-10.45</i>	<i>Break & Poster session 2</i>	
Biorefinery processes – Tom Browne, Tom Browne and Associates		
10.45-11.10	Techno-economic evaluation of lignin extraction in a dissolving pulp biorefinery	Karin Lindgren, RISE Bioeconomy, Sweden
11.10-11.35	Evaluation of commercial scale solvent-based processes for the fractionation of Kraft lignin	Marzouk Benali, CanmetENERGY, Canada
11.35-12.00	Membrane separation technology as a valuable and efficient tool in the value chain of wood towards chemicals and materials	Kelly Servaes, Flemish Institute for Technological Research – VITO, Belgium
12.00-12.25	Desalting of wood hydrolysate is a key step to achieve purity of bio-based chemicals	Marlene Beyerle, Novasep, France
<i>12.25-13.30</i>	<i>Lunch</i>	
13.30-13.55	Volatile terpene emissions in pulp mills: investigation of a Kraft pulp mill and potential recovering in a TMP mill	Frédérique Bertaud, Centre Technique du Papier, France
13.55-14.20	Exploring the role of retrofitting CCS in the pulp and paper industry	Kristin Onarheim, VTT, Finland
14.20-14.45	ERIFORE – European roadmap for new models of research infrastructure collaborations in forest based bioeconomy	Mika Härkönen, VTT, Finland
Closing – Peter Axegård, RISE Bioeconomy		
14.45-14.55	Summing up	Peter Axegård, RISE Bioeconomy, Sweden
14.55-15.00	Announcement of NWBC 2018	Eemeli Hytönen, VTT, Finland