

Wallenberg Wood Science Centre (WWSC) Graduate school visit, August 31st - September 1nd

Biotechnology: Biosynthesis and Wood cell wall assembly

Monday, August 31st

Time	Activity	Person	Place
17:00	Introduction to WWSC academy	Paul Gatenholm (Chalmers)	Lilla Hörsalen
17:30	Poster session See the separate list of posters at the end of the document	Drinks and snacks provided by GN catering	Glasburen + chemistry lunchroom

Tue, September 1st

Time	Activity	Person responsible	Place
08:30	Talks by UPSC and WWSC students	Chair: Totte Niittylä	Aspen, skogis
8.30	Solubility of wood components and their interactions with wood tissue	Jennie Berglund, KTH	
8.50	Hemicellulose coated Nanocellulose	PhD student Kajsa Markstedt, Chalmers	
9.10	Modification in xylan O-acetylation and its impact on wood properties	Post-doc Prashant Pawar, UPSC	
9.30	Genetic engineering strategy for altering wood properties	PhD student Christoffer Johnsson, UPSC	
9.50	Tailoring wood properties by fertilisation	PhD student Pieter Nibbering, UPSC	
10:00	Coffee break		
10.20	Mechano-chemical heterogeneity of plant cell walls.	PhD student Mateusz Majda, UPSC	
10.40	Electrofiltration for biorefinery applications	Jonas Wetterling, Chalmers	
11.00	Swelling of Cellulose Fibrillar Matrices and Gels	PhD student Pernilla Karlsson, KTH	
11.20	Inorganic Nanocellulose/Clay Composites	PhD student Lilian Medina, KTH	

Posters

Selda Aminzadeh , W*	Ultrafiltration of Lignoboost Lignin
Jenny Arnling Bååth, W	The action of a fungal glucuronoyl esterase on native lignin-carbohydrate ester bonds
Tobias Bensefelt, W	Polyelectrolyte multilayers at highly charged cellulose surfaces
Jennie Berglund, W	Modelling the glycosidic bonds in the backbone of plant cell wall (hemi)celluloses
Daria Chrobok, U	Deciphering the role of mitochondria during leaf senescence
Joakim Engström, W	Tailoring of adhesion by surface modification with tailor-made block copolymers
Qiliang Fu, W	Honeycomb-like templates prepared from balsa – moisture-stable sandwich cores
Shiyu Geng, W	Crosslinked polyvinyl acetate reinforced with cellulose nanocrystals – Characterization of structure and mechanical properties
Nicola Giummarella, W	Characterization of LCCs from a new pH Neutral fractionation protocol
Haleh Hayatgheibi, U	Quantitative Genetic Survey of Lodgepole Pine
Tobias Ingverud, W	Tunable 3D-structured hydrogels of nanocellulose and synthetic polymers
Marcus Jawerth, W	Novel Lignin Based Thermoset Resins
Christoffer Johnsson, U	Investigation and modification of the secondary cell wall regulatory machinery in Populus
Tahani Kaldéus, W	Controlling the Colloidal Stability of Nanocellulose Systems by Surface Modification
Pernilla Karlsson, W	Swelling of Cellulose Fibrillar Matrices and Gels
Hyeyun Kim, W	Lithium ion battery separator based on electrospun cellulose mats
Saina K Farahan, W	Solubility and Adsorption of Wood Biopolymers at Model Surfaces
Volodymyr Kuzmenko, W	Carbon aerogels from nanofibrillated cellulose as efficient and sustainable electrodes for supercapacitors
Patric Kvist, W	Mass transport in wood
Pär Lindén, W	A new way of stabilising glucomannan during alkaline conditions
Erik Lindh, W	Identifying different spin populations and their distinct dynamics in cellulose by inversion recovery 2H MAS NMR
Yingxin Liu, W	Colloidal properties of nanocellulose: self-assembly, phase behaviour and gel formation
Mateusz Majda, U	Mechano-chemical heterogeneity of plant cell wall
Kajsa Markstedt, W	Enzymatically Crosslinked Holocellulose; A 3D Bioprintable Biomaterial
Lilian Medina, W	Fire-retardant foams based on cellulose nanofibers and montmorillonite
Nitesh Mittal, W	Hydrodynamic Assembly of Nanostructured Materials
Alexandre Noah, U	Proteomic-based Systems approach to map regulatory networks of germination and seedling establishment in Theobroma cacao L
Malin Nordenström, W	Colloidal interactions in nanocellulose systems
Ogonna Obudulu, U	A systems biology approach to studying global responses to oxidative stress in Populus
Karin Sahlin, W	CNC'd; seed CNC for new application by production and chemical manipulation
Tor Sewring, W	Solubility Equilibrium of Lignin in Black liquor
Zsofia Stangl, U	Nutrient requirement of growth under different thermal conditions
Gopi K Tummala, W	Composites of polyvinyl alcohol and nanocellulose for contact lens applications
Bernard Wessels, U	Stimulation of lignin biosynthesis in hybrid aspen by Ethylene Response Factor 139
Jonas Wetterling, W	Electrofiltration for biorefinery applications
Joanna Wojtasz, W	Changes of the wood tissue during different treatment methods

* W – WWSC, U - UPSC