

Posters NWBC 2017

No.	Title	Authors	Affiliation
P1	Lignocellulosic Biorefinery for Biohydrogen and Carboxylic Acids Production in Flexible Membrane Bioreactor and Two-stage System	Konstantinos Chandolias, Sindor Pardaev, Mohammad J. Taherzadeh	a Swedish Centre for Resource Recovery, University of Borås, Sweden; Samarkand Agricultural Institute, Uzbekistan
P2	Hydrophobic Coating on Cellulosic Textile Material by Betulin and a Betulin Based Polymer	Tianxiao Huang	Division of Wood Chemistry and Pulp Technology, Department of Fiber and Polymer Technology, KTH
P4	Water purification with contact-active antibacterial cellulose	Anna Ottenhall, Tiinamari Seppänen, Josefin Illergård, Monica Ek	KTH Royal Institute of Technology, Department of Fiber and Polymer Technology, Stockholm
P7	Conversion of xylose from birch hemicellulose hydrolysate to 2,3-butanediol with <i>Bacillus vallismortis</i>	Malee Kallbach, Simon Drewes, Harri Niemi, Mari Kallionen, Mika Mänttari, Anja Kuenz, Ulf Prüße	Thünen Institute of Agricultural Technology, Braunschweig, Germany; LUT School of Engineering Science, Lappeenranta, Finland
P8	Hydrothermal carbonisation of effluent treatment sludge	Mikael Ahlroth	RISE Bioeconomy, Stockholm, Sweden
P9	Green solvents screening for the fractionation of LignoBoost lignin	Omar Abdelaziz, Jens Prothmann, Kena Li, Charlotta Turner, Christian Hultberg	Department of Chemical Engineering, Lund University, Sweden
P10	Synthesis of novel zwitterionic cellulose beads by oxidation and coupling chemistry in water	Poonam Trivedi, Jani Trygg, Tiina Saloranta, Pedro Fardim	Åbo Akademi University, Finland; KU Leuven, Belgium
P11	Bioenergy demonstration projects in Canada: Lessons learned, key factors for success, and knowledge technology gaps	Marzouk Benali, Jawad Jeaidi, Olumoye Ajao	CanmetÉNERGIE
P12	Effect of bark content on ethanol production from forest residues – A comparative techno-economic analysis	Balázs Frankó*, Mats Galbe and Ola Wallberg	Department of Chemical Engineering, Lund University, Sweden
P13	Analysis of extractives in coniferous tree fractions	Natalia Bukhanko, Thomas M. Attard, Andrew J. Hunt, Mehrdad Arshadi, Urban Bergsten, Paul Geladi	Swedish University of Agricultural Sciences, Umeå, Sweden; Green Chemistry Centre of Excellence, Department of Chemistry, University of York, UK
P14	Determination of sulfonic and carboxyl acids contents of industrial lignosulfonates	F. Bertaud, H. Lichère, G. Mortha, M. Petit-Conil	Centre Technique du Papier, France; Grenoble-INP-Pagora, France

No.	Title	Authors	Affiliation
P15	The impact of the fractionation method on the chemical structure and reactivity of industrial kraft lignins	Ayumu Tagami, Claudio Gioia, Maris Lauberts, Galina Dobelev, Tatiana Dizhbite, Mikael E. Lindström, Olena Sevastyanova	KTH Royal Institute of Technology, Sweden; Nippon Paper Industries Co, Japan; Latvian State Institute of Wood Chemistry, Latvia
P16	eLIGNIN – a database on microbial catabolism of aromatic compounds derived from lignin	Daniel P Brink, Gunnar Lidén, Marie F Gorwa-Grauslund	Lund University, Sweden
P17	Ethanol and Biomass Production from Spent Sulfite Liquor by Filamentous Fungi	Mohammadtaghi Asadollahzadeh, Mohammad J Taherzadeh, Patrik R Lennartsson, Ali Ghasemian	University of Borås, Sweden; Gorgan University of Agricultural Sciences and Natural Resources, Iran
P18	Biological conversion of lignin model compounds by isolates from Baltic Sea	Krithika Ravi, Javier Garcia-Hidalgo, Marie Gorwa-Grauslund, Gunnar Lidén	Lund University, Sweden
P19	The effect of Side Group Substituents on the Properties of Hemicelluloses	Jennie Berglund, Antonio Martínez-Abad, Francisco Vilaplana, Martin Lawoko, Gunnar Henriksson, Jakob Wohlert, Mikael Lindström	Royal Institute of Technology, KTH, Stockholm, Sweden
P20	Stabilising Glucomannan during Alkaline Conditions	Pär Lindén, Mikael Lindström, Martin Lawoko, Gunnar Henriksson	Royal Institute of Technology, KTH, Stockholm, Sweden
P21	High-quality green wood adhesives and coatings from colloidal lignin nanoparticles	Yao Xiao, Sarwar Golam, Pekka Oinas	Aalto University, Espoo, Finland
P22	Non-targeted analysis of lignin-related oligomers	Jens Prothmann, Christian Hulteberg, Margareta Sandahl, Charlotta Turner	Lund University, Sweden
P23	Influence of dielectric constant on the separation of O-acetyl-galactoglucomannan and lignin-carbohydrate-complexes during anti-solvent precipitation of ultra-filtrated spent-sulfite liquor	Basel Al-Rudainy, Mats Galbe, Ola Wallberg	Lund University, Sweden
P24	Monitoring of Chemical Processes throughout Interaction of Coniferyl Aldehyde with <i>Thermoanaerobacter mathranii</i> by Liquid-State 1H NMR Spectroscopy	Kateryna Wöss, Hansjörg Weber, Pascal Olschowksi, Hedda K Weber	Kompetenzzentrum Holz, Linz, Austria; Institut für Organische Chemie, TU Graz, Austria; Institute for Chemical Technology of Organic Materials, JKU, Linz, Austria
P25	Modelling and uncertainty assessment for Simultaneous Saccharification and Co-Fermentation (SSCF) processes	David Benjamin Nickel, Carl Johan Franzén	Chalmers University of Technology, Gothenburg, Sweden

No.	Title	Authors	Affiliation
P26	Use of tannins from different sources as natural aldehyde scavengers in wood-based panels	Sauro Bianchi, Ingo Mayer, Samuele Giovando	Bern University of Applied Science, Biel, Switzerland; Silvateam, San Michele Mondovì, Italy
P27	Wood fiber based insulation foam with improved fire resistance by modification with forest residues	Chao Zheng, Dongfang Li, Birgit Östman, Monica Ek	KTH Royal Institute of Technology, Stockholm, Sweden; SP Technical Research Institute of Sweden, Stockholm, Sweden
P28	Structural Characterization of Lignin Isolated from a Novel Pressurized Hot Water Extraction and Soda Pulped Process	Lucas Lagerquist, P. Eklund	Åbo Akademi University, Turku/Åbo, Finland
P29	Wood extracted lignin as a plant growth regulator	Ekaterina Korotkova, Andrey Pranovich, Stefan Willför	Åbo Akademi University, Turku/Åbo, Finland
P30	GVL/Water fractionation of softwood	Huy Quang Lê, Sherif Elsayed, Marc Borrega, Herbert Sixta	Aalto University, Espoo, Finland
P31	Fouling and cleaning of membranes in biorefineries	Johan Thuvander, Gregor Rudolph and Ann-Sofi Jönsson	Lund University, Sweden
P32	Adsorption of diclofenac sodium by cellulose derived carbon nanospheres	Zhaoxuan Feng, Karin Odelius, Gunaratna Kuttuva Rajarao, Minna Hakkarainen	KTH Royal Institute of Technology, Stockholm, Sweden
P33	Improved Wastewater Treatment & Mill Performance with new COD monitoring Technology	Robert Menegotto, Stephanie Horner, Marjatta Piironen Iris Joensuu, Pauliina Tukiainen, Antti Grönroos, Brian O'Connor, Serge Genest	Mantech, Ontario, Canada; Kemira, Espoo, Finland; VTT, Jyväskylä/Espoo, Finland; FPInnovations, Vancouver, Canada
P34	Furfural derivable solvents for liquid-liquid extraction of furfural from an aqueous system	Mikael Männistö, Juha-Pekka Pokki, Ville Alopaeus	Aalto University, Espoo, Finland
P35	Production of lipids by yeasts from stranded driftwood residues	Sara Filippucci, Giorgia Tasselli, Silvia D'Antonio, Mattia Gelosia, Gianluca Cavalaglio, Benedetta Turchetti, Mats Sandgren, Jule Brandenburg, Volkmar Passoth, Franco Cotana, Pietro Buzzini	University of Perugia, Italy; SLU, Uppsala, Sweden;
P36	Lipid production by <i>Lipomyces starkeyi</i> grown on lignocellulosic hydrolysate in a pH regulated feeding system	Jule Brandenburg, Johanna Blomqvist, Mats Sandgren, Volkmar Passoth	SLU, Uppsala, Sweden
P37	A quick and simple method to prepare functionalized cellulose nanocrystals with high yield	Jonatan Henschen, Dongfang Li, Monica Ek	KTH Royal Institute of Technology, Stockholm

No.	Title	Authors	Affiliation
P38	Composition and applicability of Lignin-to-Liquid solvolysis oils from lignin extracted in a semi-continuous organosolv process	Camilla Løhre, Hilde Vik Halleraker, Tanja Barth	University of Bergen, Norway
P39	Characterization of Pre-treatments on Wood Chips Prior to Delignification by Near Infrared Spectroscopy	Jarmo Louhelainen, Joni Lehto, Teresa Kłosińska, Michał Drożdżek, Raimo Alén	University of Jyväskylä, Finland; Warsaw University of Life Sciences, Poland
P40	Detection and identification of bacterial isolates from lignin-rich environments	Javier García-Hidalgo, Krithika Ravi, Gunnar Lidén, Marie Gorwa-Grauslund	Lund University, Sweden
P41	A hydrotropic extraction process to remove lignin from hardwood	Johanna Olsson, Vera Novy, Krisztina Kovacs, Mats Galbe, Ola Wallberg	Lund University, Sweden
P42	Lignin-based carbon nanofibres For flexible energy storage	Servann Herou, Magdalena Titirici	Queen Mary University of London, UK
P43	Reducing viscosity during softwood hydrolysis for easier mixing and processing	Adnan Kadić, Gunnar Lidén	Lund University, Lund, Sweden
P44	Action of structurally different endoglucanases on cellulose fibres at high solids loading	Stina Grönqvist, Jenni Rahikainen, Thaddeus Maloney, Kristiina Kruus, Anna Suurnäkki	VTT Technical Research Centre of Finland, Aalto University, Finland
P45	Improving lipid production from hemicellulose by UV-mutagenesis of red oleaginous yeasts	Johanna Blomqvist, Mats Sandgren, Volkmar Passoth	SLU, Uppsala, Sweden
P46	A two-step process for the production of hydrogen and methane using a xylose preferring organism and a methanogenic consortium	Byrne E, Kreuger E, Björkmalm, J, Willquist, K, van Niel, E.W.J	Lund University, Lund, Sweden; SP, Lund
P47	Catalytic co-pyrolysis of sugarcane bagasse residue with plastic wastes as a novel biorefinery route for biofuels and biochemicals in the pulp and paper sector	Payam Ghorbannezhad, Paul de Wild, H.J. Heeres	Shahid Beheshti University, Tehran, Iran; University of Groningen, Groningen, The Netherlands; Energy Research Center of the Netherlands (ECN), Petten
P48	Membrane fractionation of LignoBoost Kraft Lignin to Facilitate its Valorization: impact on antioxidant properties	Selda Aminzadeh, Maris Lauberts, Galina Dobeleva, Tatiana Dizhbite, Tuve Mattsson, Olena Sevastyanova, Mikael Lindström	KTH Royal Institute of Technology, Stockholm, Sweden; Latvian State Institute of Wood Chemistry, Riga; Chalmers University of Technology, Gothenburg, Sweden
P49	Structural basis for the recalcitrance of hydrothermal pretreatment in Spruce and Birch	Nicola Giummarella, Martin Lawoko	KTH Royal Institute of Technology, Stockholm, Sweden;

No.	Title	Authors	Affiliation
P50	Mechanistic studies investigating the role of formic acid during Lignin-to-Liquid solvolysis	Camilla Løhre, Hilde Vik Halleraker, Tanja Barth, Mike Kleinert, Tanja Barth	University of Bergen, Norway
P51	Biofuel Production from Black Liquor by Hydrothermal Liquefaction	Kristian Melin, Alexi Välimäki, Anja Oasmaa, Juha Lehtonen	VTT Technical Research Centre of Finland
P52	Biodiesel production from lignocellulose and biodiesel-derived glycerol by oleaginous yeasts	Volkmar Passoth, Jule Brandenburg, Johanna Blomqvist, Mikołaj Chmielarz, Hanna Karlsson, Mats Sandgren,	SLU Swedish University of Agricultural Sciences, Uppsala
P53	Effect of process parameters in pilot scale on properties of beech and spruce Organosolv lignin	Christine Rossberg, Ron Janzon, Bodo Saake, Moritz Leschinsky	Fraunhofer Center for Chemical-Biotechnological Processes (CBP), Leuna, Germany; Universität Hamburg, Germany
P55	Comparison of ethanol-water organosolv fractionation of different raw materials on pilot scale	Marlen Verges, Moritz Leschinsky, Christine Rossberg, Thomas Hirth	Fraunhofer Center for Chemical-Biotechnological Processes (CBP), Leuna, Germany; University of Stuttgart, Germany
P56	Linking xylan yield in alkaline extraction to its substitution with 4-O-methylglucuronic acid	Danuta Joanna Mozdyniewicz, Christian Hutterer, Karin Fackler, Stefan Böhmendorfer, Antje Potthast	Kompetenzzentrum Holz, Linz, Austria; Lenzing, Austria; University of Natural Resources and Life Sciences, Vienna, Austria
P57	Preparation and characterisation of cellulose-shellac biocomposites	Jasmina Obradovic, Fanny Petibon, Pedro Fardim	Åbo Akademi, Turku, Finland; KU Leuven, Belgium
P58	Aqueous acetone fractionation of kraft, organosolv and soda lignins	Anna-Stiina Jääskeläinen, Juan Domínguez-Robles, Tarja Tamminen, Tiina Liitiä, Maria Soledad Peresin, Alejandro Rodríguez	VTT Technical Research Centre of Finland; University of Córdoba, Spain; Auburn University, USA
P59	Characterization of process waters from wood processing industries	Martin Lindemann, Cornelia Rieder-Gradinger, Thomas Kuncinger, Ewald Srebotnik	Competence Centre of Wood Composites and Wood Chemistry, Linz, Austria; Fritz Egger GmbH & Co. OG, Holzwerkstoffe, Austria; Technische Universität Wien, Austria
P60	Development of biocomposites from preprocessed wood barks	Marzouk Benali; Hongbo Li, François Bru, Minh Tan Ton-That, Adrien Faye, Damien Maillard, Karen Stoeffler, Jawad Jeaidi, Olumoye Ajao	National Research Council of Canada; Natural Resources Canada, CanmetENERGY
P61	Cost-effective extraction of tannins from Canadian yellow birch barks	Marzouk Benali, Adrien Faye, Seymour Guyot-Reeb, Hongbo Li, Damien Maillard, Minh Tan Ton-That, Karen Stoeffler, Marzouk Benali, Olumoye	National Research Council of Canada; Natural Resources Canada, CanmetENERGY

No.	Title	Authors	Affiliation
		Ajao, Jawad Jaaidi	
P62	Demethylation of industrial softwood kraft lignin by laccase treatment using different laccase-mediator combinations	Miao Wang, Elisabeth Sjöholm, Jiebing Li	RISE Bioeconomy, Stockholm, Sweden; KTH Royal Institute of Technology, Sweden
P63	Structural functionalization of industrial softwood kraft lignin for dip-coating of urea as highly efficient nitrogen fertilizer	Jiebing Li, Miao Wang, Diao She, Yadong Zhao	RISE Bioeconomy, Stockholm, Sweden; KTH Royal Institute of Technology, Stockholm, Sweden; Northwest Agriculture and Forestry University, Yangling, China; Chinese Academy of Sciences & Ministry of Water Resources, Yangling, China
P64	High pressure rapid heating displacement pretreatment reactor – a tool for developing novel pretreatment technologies	Kai Toven, Karin Øyaas	PFI, Trondheim, Norway
P65	Enhanced cellulose degradation of wheat straw during aqueous ethanol organosolv treatment	Martin Lindemann, Anton Friedl, Ewald Srebotnik	Technische Universität Wien, Vienna, Austria
P66	Mobile Biomass HTC-processing unit	Max Nyström	VTT, Espoo, Finland
P67	Demonstration-Scale SLRP	Michael A. Lake	Lignin Enterprises, LLC
P68	Possibility to enhance hemicellulose recovery from wood extract with membrane filtration by applying temperature higher than 100°C	Mari Kallioinen	Lappeenranta University, Finland
P69	Kraft lignin based carbon fibres	Anders Uhlin, Märten Åkerström	RISE Bioeconomy
P70	Bioconversion of lignocellulose waste materials by fungal <i>phlebia</i> species	Hans Mattila, Jaana Kuuskeri, Tuulia Virolainen, Taina Lundell	University of Helsinki, Finland

Non-scientific posters

	Bio-HArT Project	Kelly Servaes	VITO, Netherlands
	Europe's first pilot facility for cellulose nanocrystals (CNC)	Björn Alriksson, Martin Eskilsson, Emma Johansson, Shaul Lapidot, Markus Norström, Ola Schultz-Eklund, Yoram Shkedi, Anna Svedberg, Stefan Svensson, Agne Swerin	SP Processum, Sweden; SP Technical Research Institute of Sweden; Holmen, Sweden; MoRe Research Örnköldsvik, Sweden; Melodea, Israel