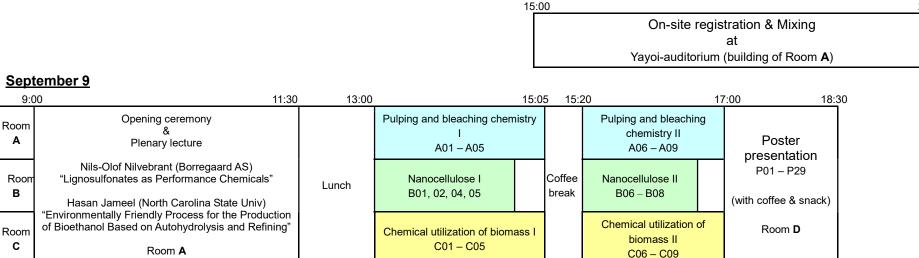
Time table of oral and poster presentation

September 8



September 10

9	:00 10:	15 10:	30	12:10	13:3	30 15:0	00	17:05	18:	30 :	21:00
Room A	Chemistry of lignin I A10 – A12		Chemistry of lignin II A13 – A16			Poster presentation	Chemistry of lignin III A17 – A21				
Room B	Analysis of wood components l B10 – B12	Coffee break	Analysis of wood components II B13 – B15		Lunch	P30 – P58 (with coffee & snack)	Chemistry of cellulose and hemicellulose I B17, 18, 20, 21		Move to Tokyo Dome Hotel (banquet venue)	Banquet Tokyo Dome Hotel	
Room C	Chemical utilization of biomass III C10 – C12		Chemical utilization of biomass IV C13 – C16			Room D	Chemical utilization of biomass V C17 – C21	v			

September 11

9	:00 9):25 10:	:15	10:30	12:1	10 13:	30 15:	00	17:05	18:0	
Room A		Chemistry of lignin IV A23, 24		Biochemical aspect of lig A25 – A28	jnin l		Poster presentation	Biochemical aspect of lignin II A29 – A33			lecture: Room A Oral prese Room A
Room B		Chemistry of cellulose and hemicellulose II B23, 24				Lunch	P59 – P89 (with coffee & snack)			Closing ceremony Room A	Room B Room C Poster pre Room D
Room C		Chemical utilization of biomass VI C22, 23		Bio-refinery I C25, 26, 28			Room D	Bio-refinery II C29 – C33			Coffee bre Room D of Room

Deening and closing ceremony, plenary ecture:

Oral presentation, Room A: A-01 to A-33 Room B: B-01 to B-27 Room C: C-01 to C-33

Poster presentation: Room D (all numbers)

Coffee break: Room D and open area in front of Room A

20:00

Name of Chairperson of Each Section

shown in red color

September 9

9:0	0 11:30	13:00	15:05	5 15:2	20 1	7:00 18:30
Room A	Opening ceremony & Plenary lecture Nils-Olof Nilvebrant (Borregaard AS)		Pulping and bleaching chemistry I A01 – A05 John Kadla		Pulping and bleaching chemistry II, A06 – A09 <i>Hiroshi Ohi</i>	Poster presentation
Room B	"Lignosulfonates as Performance Chemicals" Hasan Jameel (North Carolina State Univ) "Environmentally Friendly Process for the	Lunch	Nanocellulose I B01, 02, 04, 05 Thomas	Rosei	Nanocellulose II B06 – B08 NAU	P01 – P29 (with coffee & snack)
Room C	Production of Bioethanol Based on Autohydrolysis and Refining" Room A <i>Toshiaki Umezawa</i>		C01 - C05	Coffee break	Chemical utilization of biomass II, C06 – C09 Fachuang Lu	Room D

September 10

9	:00 10:	15 10:	30 12	2:10 13:3	30 15:0	00	17:05	18:3	30 21:00
Room	Chemistry of lignin I A10 – A12		Chemistry of lignin II A13 – A16			Chemistry of lignin III A17 – A21			
Α	Taka	o Kisł	imoto		Poster presentation	Haruo Kawamoto			
Room B	Analysis of wood components I B10 – B12		Analysis of wood components II B13 – B15	Lunch	P30 – P58 (with coffee & snack)	Chemistry of cellulose and hemicellulose I, B17, 18, 20, 21 Toshiyuki Takano	Move to Dome (banquet	Hotel	Banquet Tokyo Dome Hotel
Room C	Chemical utilization of biomass III	Coffee break	Chemical utilization of biomass Uraki		Room D	Chemical utilization of biomass V C17 – C21 Claudia Crestini		venue)	Tokyo Donie Hoter

September 11

9:	00 9:25 1	0:15	10:30	12:10	13:3	0 15:0	00	17:05	<u>18:0</u> 0
Room A	Chemistry of lignin IV, A23, 24 Tomoya Y	okoyam	Biochemical aspect of ligni A25 – A A Keiichi Koda			Poster presentation	Biochemical aspect of lignin II A29 – A33 Dmitry Evtuguin		
Room B	Chemistry of cellulose and hemicellulose II B23, 24	Coffee Break nna Sui	Chemistry of cellulose and hemicellulose III B25 – B27 dberg		Lunch	P59 – P89 (with coffee & snack)		с	Closing eremony Room A
Room C	Chemical utilization of biomass VI C22, 23	Antje Po	Bio-refinery I C25, 26, 28 D tthast			Room D	Bio-refinery II, C29 – C33 <i>Runcang Sun</i>		

Opening and closing ceremony, plenary lecture: Room A

Oral presentation,

Room A : A-01 to A-33 Room B: B-01 to B-27 Room C: C-01 to C-33

Poster presentation: Room D (all numbers)

Coffee break: Room D and open area in front of Room A

The 20th ISWFPC Presentation Program

Opening Ceremony and Plenary Lecture (Room A, 09:00 – 11:30, September 9)

Plenary lecturers

Dr. Nils-Olof Nilvebrant

Lignosulfonates as performance chemicals

Professor Hasan Jameel

Environmentally friendly process for the production of bioethanol based on autohydrolysis and refining

Oral Presentation

Room A (Pulping and bleaching chemistry I - II, Chemistry of lignin I - IV, Biochemical aspect of lignin I - II)

Date	No	Authors	Title	District						
	Pulping	and bleaching chemistry I (13:00 - 15:05))							
	A-01	Claudia Crestini, Heiko Lange, and Dimitris S. Argyropoulos	Structural diversity in softwood kraft lignin	Italy						
	A-02	<u>Fengxia Yue</u> , Fachuang Lu, Runcang Sun, and John Ralph	Structural characterization of alkali lignins isolated from non-woody materials under a lignin-first strategy	China						
	A-03	<u>Christian Jörg Trepte</u> , Maren Freese, and Steffen Fischer	Shorter rotation time: Fastgrowing Larch hybrids as a potential resource for kraftpulping	Germany						
_	A-04	Ireen Gebauer, Moritz Leschinsky, Othar Kordsachia, and Bodo Saake	From beech wood to fibres – Organosolv pulping and bleaching towards dissolving pulp	Germany						
Room A	A-05	Hiroshi Ohi, Ayyoub Salaghi, and Evelyn	An improved process of prehydrolysis/alkaline cooking with a soluble AQ and chlorine-free bleaching with peroxymonosulfuric acid for wood biorefinery	Japan						
Sep.9	Pulping and bleaching chemistry II (15:20 - 17:00)									
0ep.3	A-06	<u>Shirong Sun</u> , Takuya Akiyama, Tomoya Yokoyama, and Yuji Matsumoto	Utilization of MnO ₂ in prebleaching stage together with or subsequent to oxygen delignification	Japan						
	A-07	Etienne Montet, Estefania Isaza Ferro, Jordan Perrin, Dominique Lachenal, and Christine Chirat	An explanation for the better brightness stability obtained for ozone bleached pulps – A UV Resonance Raman spectroscopy approach	France						
	A-08	<u>Shree Prakash Mishra,</u> Wenjuan Qin, Aline Nolin, and André Audet	Deciphering right conditions for D_0 and E_1 stages in softwood kraft pulp bleaching	Canada						
	A-09	<u>Sara Starrsjö</u> , Olena Sevastyanova, Peter Sandström, Juha Fiskari, and Mikael E. Lindström	Reduction of AOX formation in chlorine dioxide bleaching of softwood kraft pulp	Sweden						
	Chemistry of lignin I (9:00 - 10:15)									
	A-10	<u>John Ralph</u> , Yanding Li, Benginur Demir, Leida M. Vázquez Ramos, Mingjie Chen, and James A. Dumesic	Lignin hydrogenolysis revisited	USA						
	A-11	Xiaoqin Si and <u>Fang Lu</u>	Immobilized Ni(0) clusters in mesoporous aluminum silica nanospheres for catalytic hydrogenolysis of lignin	China						
	A-12	Fachuang Lu, Yuan Jia, and John Ralph	Dehydrodiferulates produced from ethyl ferulate under various oxidation conditions	USA						
Room	Chemist	ry of lignin II (10:30 - 12:10)								
A Sep.10	A-13	Fuyu Yamauchi, Toko Ito, Takuya Akiyama, <u>Tomoya Yokoyama</u> , and Yuji Matsumoto	Differences in the formation rates of quinone methide between <i>p</i> -hydroxyphenyl, guaiacyl, and syringyl lignins and between different solvents under alkaline conditions	Japan						
	A-14	Keiko Miyamoto and Haruo Kawamoto	Selective pyrolytic conversion of lignin β -ether dimer into vinyl ether in the presence of phthalimide as a bifunctional reagent	Japan						
	A-15	Qiao-qiao Ye, Takuya Akiyama, Tomoya Yokoyama, and Yuji Matsumoto	Difference in the acidolytic reactions between phenolic and non-phenolic lignin model compounds	Japan						
	A-16	<u>Mikhail Balakshin,</u> Ewellyn A. Capanema, Antje Potthast, and Thomas Rosenau	Milled softwood lignin – An evidence-based structural model	Finland						

	Chemist	ry of lignin III (15:00 - 17:05)		
	A-17	Xiao Jiang, Matthew Kollman, Hasan Jameel, and Hou-min Chang	Elucidation of softwood lignin condensed structures by phenolation	USA
	A-18	<u>Kaori Saito,</u> Yutaka Makimura, Hiroshi Nishimura, and Takashi Watanabe	Structural analysis of the free phenolic terminal and non-phenolic units connected through various interunit linkages in lignin polymer	Japan
	A-19	<u>Ivan Sumerskii</u> , Hubert Hettegger, Grigory Zinovyev, Markus Bacher, Hassan Amer, Thomas Rosenau, and Antje Potthast	Fast track for the accurate determination of hydroxy groups in lignin	Austria
	A-20	Syed Farhan Hashmi, Leena Pitkänen, Kyösti Ruuttunen, and Herbert Sixta	Production of reactive lignin mixture through catalytic solvolysis of organosolv lignin	Finland
	A-21	<u>Tijana Adamovic</u> , Emre Demirkaya, Eduardo Perez Velilla, and Maria Jose Cocero Alonso	Following lignin repolymerization in the presence of model compounds in supercritical water	Spain
	Chemist	ry of lignin IV (9:25 - 10:15)		
	A-23	Suxiang Li and Fachuang Lu	Naphthalenes derived from resinol structures of lignin during phenolation process	China
	A-24	<u>Shiho Takahashi</u> , Thi Thi Nge, Eri Takata, Yasunori Ohashi, and Tatsuhiko Yamada	Flocculation properties of polyethylene glycol modified type of glycol lignin	Japan
	Biochen	nical aspect of lignin I (10:30 - 12:10)		
	A-25	<u>Noritsugu Terashima</u> , Yasuyuki Matsushita, Sachie Yagami, Dan Aoki, and Kazuhiko Fukushima	Role of monolignol glucosides in formation of wood cell walls	Japan
	A-26	Dan Aoki, Yuto Hanaya, Wakaba Okumura, Naoki Maeda, Takuya Akita, Yasuyuki Matsushita, Masato Yoshida, Yuzou Sano, Katsushi Kuroda, and Kazuhiko Fukushima	Microscopic distribution of monolignol glucosides in plants as observed by cryo-time-of-flight secondary ion mass spectrometry	Japan
Beem	A-27	<u>Takuji Miyamoto</u> , Rie Takada, Yuki Tobimatsu, Yuri Takeda, Shiro Suzuki, Masaomi Yamamura, Keishi Osakabe, Yuriko Osakabe, Masahiro Sakamoto, and Toshiaki Umezawa	Grass breeding toward lignin-enriched biomass via knockout of transcriptional repressors	Japan
Room A Sep.11	A-28	Hoon Kim, Quanzi Li, Steven D. Karlen, Rebecca A. Smith, Rui Shi, Jie Liu, Chenmin Yang, Sermsawat Tunlaya-Anukit, Jack P. Wang, Hou-min Chang, Ronald R. Sederoff, John Ralph, and Vincent Chiang	Benzoates incorporate into the lignin of <i>Populus</i> <i>trichocarpa</i> downregulated in monolignol biosynthetic cytochrome P450s	USA
	Biochemi	cal aspect of lignin II (15:00 - 17:05)		
	A-29	<u>Yasuyuki Matushita</u> , Chisato Ko, Masaya Okayama, Daisuke Baba, Yuto Oyabu, Dan Aoki, and Kazuhiko Fukushima	Fascinated reaction of dilignols during enzymatic dehydrogenative polymerization – Radical transfer system and new reaction site of β -5 dilignol –	Japan
	A-30	<u>Xuhai Zhu</u> , Takuya Akiyama, Tomoya Yokoyama, and Yuji Matsumoto	Lignin biosynthetic study: Reactivity of quinone methides in the formation of p -hydroxyphenyl-type β -O-4 structures	Japan
	A-31	<u>Toshiaki Umezawa</u> , Yuki Tobimatsu, Masaomi Yamamura, Masahiro Sakamoto, Shiro Suzuki, Yuri Takeda, Takuji Miyamoto, Taichi Koshiba, and Rie Takada	Lignin metabolic engineering in grasses for lignin valorization	Japan
	A-32	Wan-Shuan Chiang and Ting-Feng Yeh	Lignin structural variations of the growing ma bamboo culms	Taiwan
	A-33	Owik Herold-Majumdar, Pedro E. G. Loureiro, and Claus Felby	Enzymatic bleaching using a haloperoxidase from Curvurlaria verruculosa	Denmark

Room B (Nanocellulose I - II, Analysis of wood components I - II, Chemistry of cellulose and hemicellulose I - III)

Date	No	Authors	Title	District					
	Nanocel	lulose I (13:00 - 14:40)		I					
	B-01	Kh. Samaher Salem, Lokendra Pal, Lucian Lucia, and <u>Hasan Jameel</u>	Chemical reactivity of nano fibrillated cellulose with different levels of fibrillation for controlled surface modification to target final applications	USA					
	B-02	Sven Plappert, Harald Rennhofer, Sigrid Bernstorff, Helga Lichtenegger, and <u>Falk</u> Liebner	Synchrotron-SAXS study of nanomorphological alterations in anisotropic cellulose II aerogels under uniaxial compression	Austria					
	B-04	Anna Sundberg, Anders Strand, Weihua Zhang, and Tiffany Abitbol	Preparation and characterization of high-yield cellulose nanocrystals (CNCs) from softwood kraft pulp	Finland					
Room B Son 0	B-05	<u>Liqin Liu</u> , Xingye An, Yiwei Sun, Yanlu Luo, and Hongbin Liu	Preparation of transparent and self-assembly nanocellulose based flame retardant membrane and its application in paper	China					
Sep.9	Nanocel	lulose II (15:20 - 16:35)							
	B-06	Franklin Zambrano, <u>Richard Phillips,</u> Richard Venditti, Hasan Jameel, and Ronalds Gonzalez	Application of micro- and nanofibrillated cellulose (MNFC) in hygiene tissue products	USA					
	B-07	Zonghong Lu, Xingye An, and <u>Hongbin</u> <u>Liu</u>	Cellulose nano-fibers (CNF) as versatile fillers of wood pulp for high wet web performance	China					
	B-08	<u>Shogo Taira,</u> Keiichi Koda, Yasumitsu Uraki, Haruo Konno, and Shu Shimamoto	Transparent nanopaper prepared from acetylated cellulose nanofiber	Japan					
	Analysis	s of wood components I (9:00 - 10:15)		-					
	B-10	<u>Claudia Gusenbauer</u> , Tiina Nypelö, Etienne Cabane, and Johannes Konnerth	Force microscopy to reveal chemical properties of lignocellulosic materials up to the nanometer scale	Austria					
	B-11	Linjie Yang and Fachuang Lu	A high-throughput thioacidolysis method incorporating Multi-Reaction Monitoring mode of GC-MS for higher sensitivity	China					
	B-12	<u>Shuai An</u> , Yu Sun, Chong Luo, Shuo Yang, Wenhui Zhang, and Hongjie Zhang	Characterization of surface friction properties of lignocellulosic fibers and its effect on interfiber bonding properties	China					
	Analysis of wood components II (10:30 - 11:45)								
Room B	B-13	Christian Schuster, Matthias Guggenberger, Hajar Khaliliyan, Thomas Rosenau, Antje Potthast, and <u>Stefan Böhmdorfer</u>	Reliable quantification of lignin by HPTLC densitometry and multivariate calibration	Austria					
Sep.10	B-14	Diana G. Branco, Joana R. Campos, Luís Cabrita, and Dmitry.V. Evtuguin	Structural features of macromolecular components of cork from Quercus suber L.	Portuga					
	B-15	Niken Pujirahayu, Toshisada Suzuki, and <u>Takeshi Katayama</u>	Cycloartane-type triterpenes and botanical origin of propolis of stingless Indonesian bee <i>Tetragonula sapiens</i>	Japan					
	Chemist	ry of cellulose and hemicellulose I (15:00	D - 16:40)	1					
	B-17	Sandra Magina and Dmitry V. Evtuguin	On the heterogeneity of xylan structure in eucalyptus wood	Portugal					
	B-18	<u>Juliette Francillon</u> , Christine Chirat, Claire Boisset, and Laurine Buon	Oligosaccharides from wood autohydrolysates: A multi-step purification technique	France					
	B-20	<u>A. Lucia</u> , J. T. Oberlerchner, M. Beaumount, Erik van Herwijnen, and Thomas Rosenau	Model for enhanced mechano-chemical oxidation of cellulose by experimental design	Austria					
	B-21	<u>Hubert Hettegger</u> , Marco Beaumont, Gerhild K. Wurzer, Alois Jungbauer, Wolfgang Lindner, Antje Potthast, and Thomas Rosenau	Polysaccharide-functionalized particles and monolithic materials for chromatography	Austria					
Room	Chemist	ry of cellulose and hemicellulose II (9:25		1					
В	B-23	<u>Takashi Nomura</u> , Eiji Minami, and Haruo Kawamoto	Solid carbonized product formation via 5-HMF during cellulose pyrolysis	Japan					
Sep.11	B-24	Sachin Agate, Lucian Lucia, Hasan Jameel, and <u>Lokendra Pal</u>	3D Templating of cellulose biogels for the next generation of flexible electronics	USA					

	Chemist	ry of cellulose and hemicellulose III (10:	30 - 11:45)	
Room B	B-25	<u>Simone Haslinger</u> , Inge Schlapp-Hackl, Xueyao Ge, Dariusz Wawro, and Herbert Sixta	Cellulose films from birch pulp and cotton waste using [DBNH] [OAc]	Finland
Sep.11	B-26	<u>Tianyu Guo</u> , Wangxia Wang, Huining Xiao, and Yongcan Jin	Dual-triggered CMC/dopamine/cystamine hydrogels driven by dynamic metal-ligand and redox for self-healing and drug release	China
	B-27	Zhuojun Meng, Laine Christiane, Tekla Tammelin, and Eero Kontturi	Water interactions in biomaterials engineering	Finland

Room C (Chemical utilization of biomass I - VI, Bio-refinery I - II)

Date	No	Authors	Title	District						
	Chemica	al utilization of biomass I (13:00 - 15:05)								
	C-01	Matthew Kollman, <u>Hou-min Chang</u> , Hasan Jameel, and Wenzhi Li	Catalyst support effects on the hydroprocessing of kraft lignin towards jet fuel-range hydrocarbons utilizing non-noble metals	USA						
	C-02	Francesca Pincella, Siming Lu, Hiroshi Matsuda, Lulu Fan, Atsushi Yamamoto, Tomoko Matsumori, Isamu Katsuyama, Katsuhiro Isozaki, Kenji Fukuda, Takashi Watanabe, and Masaharu Nakamura	Microwave-assisted one-pot conversion of lignin to fluorescent imidazole compounds	Japan						
Room	C-03	<u>Nick Bornholdt</u> , Elke Fliedner, Isabell Kühnel, and Ralph Lehnen	Cyclic carbonate functionalized lignin as non-toxic intermediate for renewable polymers	Germany						
C Sep.9	C-04	Omid Hosseinaei, Darren Baker, Linda Echardt, <u>Ewellyn Capanema</u> , and Maria Sedin	Lignin-based carbon fiber: Effect of softwood kraft lignin separation method on multifilament melt-spinning performance and conversion	Sweden						
Copie	C-05	Richard Vendamme, Pablo Ortiz, Mohan Wadekar, and Walter Eevers	Designing functional biopolymers from low molecular weight lignin building blocks	Belgium						
	Chemical utilization of biomass II (15:20 - 17:00)									
	C-06	<u>Tian He</u> , Wenxiang Zhu, and Fangeng Chen	Preparation of lignin-based polyols by mild hydrothermal degradation of acetic acid lignin	China						
	C-07	Yi-ru Chen and <u>Simo Sarkanen</u>	Plastics composed of lignin-lignin blends uphold enhanced tensile strengths	USA						
	C-08	<u>Zhu Liqing</u> , Zhang Zhengyi, Zhiwei Ge, Jin Zhenfu, and Yuji Matsumoto	The effect of chemically modified lignin content on curing kinetics and properties of epoxy resin	China						
	C-09	Anand R. Sanadi and Daniel F. Caulfield	Highly filled lignocellulosic fiber (85%) polypropylene composites using a novel approach	Denmark						
	Chemica	al utilization of biomass III (9:00 - 10:15)								
	C-10	<u>Weimiao Lu</u> , Shun Li, Zhenfu Jin, and Yuji Matsumoto	Lignosulfonate as carbonizing agent of IFR and its flame retardancy in rigid polyurethane foams	China						
	C-11	<u>Sandra Magina</u> , Ana Barros-Timmons, and Dmitry V. Evtuguin	Laccase-catalysed oxidative modification of lignosulphonates from acidic sulphite pulping of eucalypt wood	Portugal						
Room C	C-12	Bo Pang, Tong-Qi Yuan, and Run-Cang Sun	Structural elucidation and curing behavior of lignin-based resins using biorefinery technical lignins	China						
Sep.10	Chemica	al utilization of biomass IV (10:30 - 12:05)								
060.10	C-13	Yongchao Zhang, Xiaoju Wang, Stefan Willför, Chunlin Xu, Pedram Fatehi, and Menghua Qin	Magnetic hybrid lignin nanoparticles for ultrafast removal of heavy metal ions	Finland						
	C-14	<u>Chen Qu</u> , Keigo Mikame, Yasunori Ohashi, Hiroshi Nishimura, Satoshi Sugawara, Kenzo Koike, and Takashi Watanabe	Production of natural UV-absorbing agent from degraded lignin by microwave heating	Japan						

	C-15	<u>Lili Zhang</u> , Yimin Fan, Jinxia Ma, Yiqin Yang, and Zhiguo Wang	Contribution of lignin to the microstructure and physical performance of three-dimensional lignocellulose hydrogels	China						
	C-16	<u>Tijana Adamovic</u> , Celia Martinez Fajardo, and Maria Jose Cocero Alonso	Validation of high lignin content biomass using supercritical water technology	Spain						
	Chemica	al utilization of biomass V (15:00 - 17:05)								
Room	C-17	Zhen Yue, <u>Qingxi Hou,</u> Wei Liu, and Honglei Zhang	Efficient and value-added utilization for biomass in paper industry: Effect of surface lignin produced in autohydrolysis of poplar sapwood chips on the subsequent alkali impregnation	China						
C Sep.10	C-18	<u>María González Martínez</u> , Capucine Dupont, Sébastien Thiery, Denilson Da Silva Perez, Xuân-mi Meyer, and Christophe Gourdon	Woody and agricultural biomass torrefaction: Modelling solid conversion and volatile species formation through extracted macromolecular components	France						
	C-19	Sherif Elsayed, Sanna Hellsten, Chamseddine Guizani, Joanna Witos, and Herbert Sixta	Spinning & recycling of [mTBDH][OAc] ionic liquid in Ioncell-F process	Finland						
	C-20	<u>Zhiqiang Li,</u> Naruhito Hori, and Akio Takemura	Synthesis and characterization of Cu-BTC metal-organic frameworks onto lignocellulosic fibers by layer-by-layer method in aqueous solution	Japan						
	C-21	<u>Johannes Konnerth</u> , Jérôme Colson, Torbjörn Pettersson, Tiina Nypelö, Herbert Sixta, Asaadi Shirin, Günther Kneidinger, and Claudia Gusenbauer	Surface and adhesion properties of lignocellulosic model fibers	Austria						
	Chemica	al utilization of biomass VI (9:25 - 10:15)								
	C-22	Ying He and Fachuang Lu	Antimicrobial activity of diferulates revealed by headspace GC analysis	China						
	C-23	Luc Zongo, Heiko Lange, and <u>Claudia</u> <u>Crestini</u>	Stability profiles of lignin microcapsules	Italy						
	Bio-refinery I (10:30 - 11:45)									
	C-25	Martin Lindemann, Bernhard Widhalm, Cornelia Rieder-Gradinger, Thomas Kuncinger, and Ewald Srebotnik	Valorization of effluents from wood processing industry by removal of bioactive polyphenols and subsequent fermentation	Austria						
	C-26	<u>Huy Quang Lê</u> , Anika Khan, Markus Hochegger, Martin Mittelbach, and Herbert Sixta	Comparative evaluation of different raw materials for dissolving pulp production by γ-valerolactone (GVL) pulping	Finland						
Room	C-28	<u>Tainise V. Lourencon</u> , Luiz G. Grecca, Marc Borrega, Tarja Tamminen, Orlando J. Rojas, and Mikhail Balakshin	Lignin-first integrated biorefinery via hydrothermal treatment (HTT) of biomass: A new angle of a known process	Finland						
С	Bio-refin	ery II (15:00 - 17:05)								
Sep.11	C-29	Guanhua Wang, Shuang Qi, Chuanling Si, and <u>Yonghao Ni</u>	A one-pot lignocellulose fractionation process based on mild acid-catalyzed biphasic water/phenol systems	Canada						
	C-30	<u>Jinze Dou</u> , Josphat Phiri, Thad Maloney, and Tapani Vuorinen	Fractionation of willow for combined production of activated carbon, extracts and fiber bundles	Finland						
	C-31	<u>Marc Borrega,</u> Ville Pihlajaniemi, and Tarja Tamminen	Chemical additives in hydrothermal treatments: Effects on saccharification and on the properties of hydrolysis lignin from pine, birch and willow wood	Finland						
	C-32	Tatsuhiko Yamada, Thi Thi Nge, Yasunori Ohashi, Shiho Takahashi, Eri Takata, Tsutomu Ikeda, Yasuyuki Matsushita, Dan Aoki, Kazuhiko Fukushima, Akiko Nakagawa-izumi, Masaomi Yamamura, Yuki Tobimatsu, Toshiaki Umezawa, Osamu Tanaike, Ryo Ishii and Takeo Ebina	Glycol lignin production and glycol lignin-based functional materials	Japan						
	C-33	<u>Zhijun Chen</u> , Shujun Li, Shouxin Liu, and Jian Li	Learning from nature: Empowering biomass with light	China						

Poster Presentation

Room D

Date	No.	Authors	Title	District
	Chemis	try of cellulose-related materials, paper r	naking and others (17:00 - 18:30)	
	P-01	Nikolay A. Makarevich	Diffusion kinetic model for real interphase processes with participation of wood components	Russia
	P-02	Nikolay A. Makarevich	Nonideality factor in entropy – Multifractal analysis of wood components	Russia
	P-03	Roderquita K. Moore and Doreen Mann	GCxGC characterization of Saw Palmetto Serenoa repens chemical composition	USA
	P-04	Roderquita K. Moore and Doreen Mann	Investigation of Inkberry Ilex Glabra solvent fractions using GCxGC technology	USA
	P-05	Kai Sakamoto, Takashi Hosoya, and Hisashi Miyafuji	Phenyl boronic acids as flame retardants to control efflorescence phenomenon	Japan
	P-06	Julien Jaxel, Julie Rodriguez, Aurore Rerat, Thomas Rosenau, Christian Hansmann, Falk Liebner, and <u>Stefan</u> <u>Böhmdorfer</u>	How to quantify and evaluate the homogeneity of a wood surface coating?	Austria
	P-07	Wenxuan Mo and Bo Li	The change and prediction of water retention capacity of poplar fibers with high lignin content under thermal drying process	China
	P-08	Yueyue Yang, Can Wang, Qi Wang, Peng Lu, Wei Li, Shuangfei Wang, and <u>Jiulong Sha</u>	The effect of mechanical refining treatments on the yielding behavior of acacia pulp fiber suspensions	China
Room D	P-09	Ling-ling Gao, Wan-peng Zhou, Ming-yang Ye,Ying-fu Huang, and Hui Sun	Effect of different beating degree on fibers morphology and properties of Xuan paper	China
Sep.9	P-10	<u>Chen-Lung Ho</u> , Kuang-Ping Hsu, Hui-Tung Ho, Eugene I-Chen Wang, and Yu-Chang Su	Evaluating the properties of the dissolving pulp prepared through organosolv pulping by PFI beating treatment	Taiwan
	P-11	Liqin Liu, Xingye An, and Hongbin Liu	Preparation of starch based bio-latex by ball-milling pretreatment assisted amylase hydrolysis for paper coating application	China
	P-12	Junxian Xie, <u>Fengxia Yue</u> , Rendang Yang, and Xu Jun	High performance cellulose-based coating for oil and grease resistance	China
	P-13	Sara Zaccaron, Hassan Amer, Antje Potthast, and <u>Thomas Rosenau</u>	Modified cellulose pulp with convalently-bond functionalities for metal chelation	Austria
	P-14	<u>Yan Shi</u> , Zeyu Ma, Weiwei Kong, Jingwen He, and Xiang Gao	Forming technology of regenerated cellulose self-bonding dissolving pulp fibers reinforced cushioning material	China
	P-15	Irina Sulaeva, Christian Rohrer, Thomas Rosenau, and Antje Potthast	Modifications of bacterial cellulose for wound treatment applications	Austria
	P-16	María González Martínez, Gérard Mortha, Capucine Dupont, Sébastien Thiéry, Denilson da Silva Perez, Xuân-mi Meyer, and Christophe Gourdon	Impact of cellulose properties on its behavior in torrefaction: Commercial microcrystalline cellulose versus extracted celluloses from woody and agricultural biomasses	France
	P-17	<u>Sha Wang</u> , Zhe Sun, Yudi Kuang, Weiqing Kong, and Yongcan Jin	Strong, highly conductive nano-ionic cables from aligned cellulose nanofibers	China
	P-18	Panagiotis Spiliopoulos, lina Solala, Timo Pääkkönen, Jani Seitsonen, Bas Van Bochove, and Eero Kontturi	Crosslinking of cellulose nanocrystals in a template pre-hydrolyzed by hydrogen chloride gas	Finland
	P-19	Woo-Yong Song, Soyong Juhn, and Soo-Jeong Shin	Effects of cellulose nanofibril on emulsion droplet size and skin moisture content	Korea
Room	P-20	Wangxia Wang, <u>Wenjuan Wu</u> , Huining Xiao, and Yongcan Jin	Dispersible and thermal stable nanocellulose prepared for easy-cleaning surface of cellulose-based material	China
D Sep.9	P-22	<u>Hassan Amer</u> , Markus Gorfer, Ute Henninges, Markus Bacher, Antje Potthast, and Thomas Rosenau	Antimicrobial and UV-protective activities of guanidine functionalized cellulose/PVA films	Austria

Room D Sep.9	P-23	<u>Hassan Amer</u> , Tiina Nypelö, Markus Gorfer, Uwe Rinner, Dominik Schild, Antje Potthast, and Thomas Rosenau	Guanidine-based xylan/CNC film decorated with lignin-type antioxidants: Synthesis and biological properties	Austria
	P-24	Yeyan Ni and Yi Jing	Study on water resistance of nano-chitin/cassava starch composite film	China
	P-25	<u>Gérard Mortha</u> , Frederique Clifton, and Anne-Laurence Dupont	A novel method for cellulose MMD analysis of "very high" molar mass dissolving pulps by size-exclusion chromatography	France
	P-26	<u>Kota Enomoto</u> , Takashi Hosoya, and Hisashi Miyafuji	Effect of dissolution behavior of cellulose on production of 5-HMF in imidazolium ionic liquid	Japan
	P-27	<u>Takao Kishimoto</u> , Miki Higuchi, and Daisuke Urabe	Conversion of cellulose into octyl glucoside by microwave heating in ionic liquid	Japan
	P-28	<u>Waki Ikegami,</u> Takahiro Yagura, Hiroshi Kamitakahara, Yoshikuni Teramoto, and Toshiyuki Takano	Synthesis of D/L-cellulose	Japan
	P-29	<u>Mayu Morita,</u> Takashi Hosoya, and Hisashi Miyafuji	Gas formation from D-glucose in various ionic liquids	Japan
	Chemist	ry of carbohydrates, bio-refinery, lignin	products and others (13:30 - 15:00)	
	P-30	<u>Zhouyang Xiang</u> , Xuchen Jin, and Fachuang Lu	Investigating and promoting the material properties of xylan-type hemicelluloses	China
	P-31	Anatoly A. Shatalov	Mixed-addenda Keggin-type (Mo-V-P)-heteropolyacids for selective hemicellulose conversion into soluble sugars	Portugal
	P-32	<u>Chao Wang</u> , Qilin Zhang, Guihua Yang, and Feng Xu	FeCl ₃ -catalyzed conversion of xylose residues to levulinic acid in green salt solutions	China
Room D Sep.10	P-33	<u>Jahan Golestani</u> , Christine Chirat, Laure Fort, Juliette Francillon, and Dominique Lachenal	Extraction of hemicelluloses from bleached cellulosic fibers by CCE or enzymatic treatments: Characterization of the extracted oligomers	France
	P-34	<u>Qiulin Yang</u> , Shuang Xu, Dan Huo, Qingxi Hou, and Fengshan Zhang	Enhancement of enzymatic saccharification and xylose recovery of wheat straw by a pretreatment process using MgCl ₂	China
	P-35	Hui Chen, Bo Jiang, and Yongcan Jin	Effect of solid pretreatment on enzymatic saccharification of different lignocellulosic materials	China
	P-36	Shufang Wu, Hui Chen, <u>Hasan Jameel,</u> Hou-min Chang, and Richard Phillips	Effects of lignin contents and delignification methods on enzymatic saccharification of loblolly pine	China
	P-37	<u>Akiko Nakagawa-izumi</u> and Umi Hamidah	Effect of ionic liquid pretreatment on enzymatic saccharification of water hyacinth	Japan
	P-38	<u>Haruka Hozumi</u> , Koichi yoshioka, Hisashi Miyafuji, Jun Fukushima, Hiroki Aoyagi, Hiroto Shimamura, Tatsuya Hori, Jun Matsumoto, and Shigeki Morii	Production of furan compounds from lignocellulosics by treatment with ionic liquid under vacuum steam distillation and reuse of ionic liquid	Japan
	P-39	<u>Hisashi Miyafuji</u> and Takashi Hosoya	Various applications of ionic liquids for wood utilization	Japan
	P-40	Agusta Samodra Putra, <u>Ryozo Noguchi,</u> Tofael Ahamed, Akiko Nakagawa-izumi, and Hiroshi Ohi	Environmental impact contributor in the EFB-based integrated dissolving pulp and furfural production	Japan
	P-41	<u>Lianxin Luo</u> , Kelei Zhang, and Xiaojun Yuan	The improvement of explosion treatment on secondary fiber properties of OCC	China
	P-42	<u>Marta Ramos-Andrés</u> , Beatriz Aguilera-Torre, Sergio Díaz-Cesteros, and Juan García-Serna	Production of high-value added products from carrot discards through green processes	Spain
Room	P-44	Juha Fiskari and Petri Kilpeläinen	Evaluation of the potential of Acacia mangium and Eucalyptus pellita as feedstock for biorefinery	Sweden
Sep.10	P-45	<u>Mingfu Li</u> , Changzhou Chen, Qingtong Zhang, Bin Luo, Chenyan Guo, Shuangfei Wang, and Douyong Min	Lignin-based carbon solid acid prepared as catalyst for selectively converting fructose to HMF	China
	P-46	<u>Grigory Zinovyev</u> , Ivan Sumerskii, Thomas Rosenau, and Antje Potthast	Inherent properties of kraft lignin required for rigid polyurethane foams production	Austria
	P-47	Yang Yang, Rui Tang, Danwei Xue, and <u>Bailiang Xue</u>	Ternary deep eutectic solvents as an effective liquid for regenerating lignin in application of rigid polyurethane foam	China
	P-48	Wenxiang Zhu, Tian He, and <u>Fangeng</u> <u>Chen</u>	Lignosulfonate derived from acetic acid lignin: Preparation and application as a dispersant	China
	P-49	<u>Fengfeng Li</u> , Guihua Yang, Xiluan Wang, and Runcang Sun	Lignosulfonate-modified graphene hydrogel with ultrahigh adsorption capacity for Pb(II) removal	China

Room D Sep.10	P-50	Qingtong Zhang, Mingfu Li, Ming Lei, Bin Luo, Shuangfei Wang, and <u>Douyong</u> <u>Min</u>	High value utilization of lignin nanoparticle to construct ultra-sensitive mercury ions colorimetric sensors	China		
	P-51	<u>Gaojin Lyu</u> , Chao Wang, Xingxiang Ji, Guihua Yang, Jiachuan Chen, and Xuejun Pan	Alkaline oxidative hydrothermal conversion of biomass into lignin-derived aromatics and carbohydrates	China		
	P-52	Luc Zongo, Heiko Lange, and <u>Claudia</u> <u>Crestini</u>	Folate-decorated tannin microcapsules for oncologic theragnosis	Italy		
	P-53	Roderquita K. Moore and Doreen Mann	Classification of durable chemicals in Black Locust <i>Robinia Psedoacacia</i> wood and bark	USA		
	P-54	Roderquita K. Moore, Doreen Mann, Frederick Matt, Mark Dietenberger, and David Weise	Characterization of Fetterbush Lyonia lucida liquid extractions	USA		
	P-55	<u>Chihiro Kimura</u> , Ruibo Li, Ryota Ouda, Hiroshi Nishimura, Takashi Fujita, and Takashi Watanabe	Production of antiviral compounds from sugarcane bagasse by microwave solvolysis	Japan		
	P-56	<u>Ruibo Li,</u> Ryo Narita, Ryota Ouda, Chihiro Kimura, Hiroshi Nishimura, Takashi Fujita, and Takashi Watanabe	Antiviral activity of phenolic compounds in pyroligenous acid, and structure-activity relationship	Japan		
	P-57	Xiaoqian Chen, Yingjuan Fu, Chuanling Si, and Pedram Fatehi	Bio-medicinal applications of bio-based materials	China		
	P-58	<u>Tomoko Sugimoto</u> , Yoshimi Sakai, Ryusei Haraguchi, Toshihide Hirao, and Toshihiro Yamada	Evaluation of the chemical composition of Chamaecyparis pisifera rotten wood – Focusing the changes including the very early stage of rotting –	Japan		
	Chemistry of lignin, pulping and others (13:30 - 15:00)					
	P-59	Takashi Hosoya and Hisashi Miyafuji	Quantum chemical approaches to mechanisms in alkaline nitrobenzene oxidation of lignin	Japan		
	P-60	<u>Noriyuki Takemoto,</u> Tsuyoshi Akiyama, Yoshihiko Taguchi, and Ruri Sato	Molecular weight determination of lignin by SEC/MS and preparative SEC/MALDI-TOFMS	Japan		
Boom	P-61	<u>Yuki Tokunaga,</u> Takashi Nagata, Keiko Kondo, Masato Katahira, and Takashi Watanabe	NMR analysis for molecular insight into the interaction between lignin and carbohydrate binding module of Cel7A from <i>Trichoderma reesei</i>	Japan		
Room D Sep.11	P-62	<u>Xiao-Jun Shen</u> , Han-Min Wang, Jia-Long Wen, and Tong-Qi Yuan	Structural and morphological transformations of lignin macromolecule during bio-based Deep Eutectic Solvent (DES) pretreatment	China		
•	P-63	<u>Guihua Yang</u> , Jiachuan Chen, Gaojin Lyu, M. Sarwar Jahan, and Yonghao Ni	Structural characterization of lignin from the pre-hydrolysis liquor of kraft based dissolving pulp production process and its comparison with other technical lignins	China		
	P-64	Yu Liu, Yinglong Wu, and Gaojin Lyu	Characteristics of willow lignin from organic solvent treatment	China		
	P-65	<u>Haruka Hirayama</u> , Takuya Akiyama, Satoshi Kimura, Deded S. Nawawi, Wasrin Syafii, Tomoya Yokoyama, and Yuji Matsumoto	Influence of the p-hydroxyphenyl/guaiacyl ratio on the biphenyl contents in compression wood lignins	Japan		
Room D	P-66	Tao Wang, Hao Ren, Yi Jing, and <u>Guolin</u> <u>Tong</u>	Partial separation of the lignin from kraft pulping alkaline recovery process	China		
Sep.11	P-67	Jing Li and Xinsheng Chai	Crude refining of lignin from wheat straw by low-temperature/pressure ethanol system enhanced by oxygen	China		
	P-68	Chengqi Feng, Shuangquan Yao, Baojie Liu, Lingzhi Huang, and Chengrong Qin	Fractionation of bagasse by p-toluenesulfonic acid	China		
	P-69	Chongxin Yin, Chunfa Lei, and <u>Jinlan</u> <u>Cheng</u>	Efficient fraction of rice straw by p-toluenesulfonic acid	China		
	P-70	<u>Naoki Hada</u> , Takuya Akiyama, Tomoya Yokoyama, and Yuji Matsumoto	Fractionation of softwood MWL according to the solubility in dioxane, and relationship between the molecular weight and biphenyl content	Japan		
	P-71	Lupeng Shao and Feng Xu	Thermal degradation of fractionated lignin fractions by Py-GC/MS	China		
	P-72	Weikun Jiang, Yu Liu, and Gaojin Lv	Modeling pyrolytic behavior of pre-oxidized lignin using representative β -ether-type lignin models	China		

	P-73	<u>Jiawei Wang</u> , Mohd Asmadi, Eiji Minami, and Haruo Kawamoto	Influences of wood cell wall ultrastructure on thermal reactivities of polysaccharides	Japan
	P-74	<u>Eiji Minami,</u> Yao Yilin, and Haruo Kawamoto	Decomposition of lignocellulosics in supercritical methanol with adding water by a semi-flow reactor	Japan
Room D Sep.11	P-75	<u>Yanding Li</u> , Benginur Demir, Elise B. Gilcher, Madelyn R. Ball, Vitaly Tymokhin, John Ralph, and James Dumesic	Kinetic and mechanistic insights into hydrogenolysis of lignin to monomers in a continuous flow reactor	USA
	P-76	<u>Daisuke Ando</u> , Fumiaki Nakatsubo, Hiroyuki Yano, and John Ralph	Selective lignin degradation of a LCC insoluble fraction from Eucalyptus globulus with γ-TTSA method	USA
	P-77	Fernanda Rosa Vieira, Ana Barros-Timmons, Dmitry V. Evtuguin, and Paula C.R. Pinto	Effect of different catalysts on the oxyalkylation of eucalyptus LignoBoost kraft lignin	Portugal
	P-78	Tokimitsu Kobayashi, Kaori Sawamura, Yuki Tobimatsu, Hiroshi Kamitakahara, and <u>Toshiyuki Takano</u>	Lignin functionalization through chemical demethylation: Preparation and tannin-like properties demethylated dehydrogenation polymers	Japan
	P-79	Kyoko S. Katsumata, Takuya Akiyama, Tomoya Yokoyama, and Yuji Matsumoto	Depolymerization of lignin isolated by soda-AQ cooking – H ₂ O ₂ /H ₂ SO ₄ treatment and MnO ₂ treatment –	Japan
	P-80	Esakkiammal Sudha Esakkimuthu, Marie-Christine Brochier Salon, Nathalie Marlin, <u>Maria Gonzalez Martinez</u> , and Gérard Mortha	Lignin model compounds fluorobenzylation	France
	P-81	Yoshitaka Hirano and Toshiyuki Takano	Theoretical analysis of the proton-coupled electron transfer oxidation mechanism of lignin model compounds	Japan
	P-82	<u>Xu Zeng</u> , Takuya Akiyama, Tomoya Yokoyama, and Yuji Matsumoto	Contribution of the γ -hydroxy group to the β -O-4 bond cleavage of lignin model compounds in the reaction with <i>tert</i> -butoxide under mild conditions	Japan
	P-83	<u>Yuri Takeda</u> , Yuki Tobimatsu, Masaomi Yamamura, Toshiyuki Takano, Masahiro Sakamoto, and Toshiaki Umezawa	Characterization of lignocellulose utilization properties in transgenic rice plants with altered lignin aromatic composition	Japan
	P-84	<u>Yimin Xie,</u> Chen Jiang, and Xuekuan Chen	Synthesis and anticancer activity of DHP with low degree of polymerization	China
	P-85	<u>Xin Wang</u> , Yu Sun, Chong Luo, Shuo Yang, Wenhui Zhang, and Hongjie Zhang	Further understanding the effect of lignin distribution in lignocellulosic fiber cell walls on the fiber deformability and interfiber bonding properties	China
	P-86	Zhichao Ma, Jianpei Li, Pei Zhong, and <u>Yongjun Yin</u>	Study on soft sensor model of pulp components based on bleached pulp quality indexes	China
	P-87	Chen-Lung Ho and Yu-Chang Su	Evaluating fiber morphology and pulping potentials of seven tropical wood species	Taiwan
	P-88	Injeong Kim, <u>Olov Karlsson</u> , Oleg N. Antzutkin, Faiz Ullah Shah, Dennis Jones, and Dick Sandberg	Wood modification with maleic anhydride and sodium hypophosphite	Sweden
	P-89	Reza Ebrahimi Majdar, Heiko Lange, and <u>Claudia Crestini</u>	Soxhlet-derived LCC-fraction from wheat straw organosolv lignin	Italy