

International Conference On Pulping, Papermaking And Biotechnology

(ICPPB'08)

**November 4-6, 2008
Nanjing, China**

PROGRAM

Organized by:

Nanjing Forestry University, China

TAPPI, USA

Conference Committee

Conference Chairman

Prof. Shiyuan YU

President, Nanjing Forestry University, China

Conference Co-Chairmen

Mr. Larry Montague

President, TAPPI

Prof. Hou-min Chang

North Carolina State University, USA

Dr. Zhenglei Cao

National pulp and papermaking Institute, China

Mr. Kunitaka Toyofuku

Executive Director, Japan Tappi

Program Committee Members

Committee Chairmen

Prof. Huamin Zhai

Nanjing Forestry University, China, Chair

Mr. Goyal Gopal

International Paper, USA, Co-chair

Dr. James Frederick

Institute of Paper Science & Technology at Georgia Tech,
Co-chair

International

Prof. Hou-min Chang

North Carolina State University, USA

Prof. Nam-Seok Cho

Chungbuk National University, Korea

Mr. Charles Courchene

Institute of Paper Science & Technology at Georgia
Tech, USA

Prof. Göran Gellerstedt

KTH, Sweden

Mr. Danny Haynes

Eka Chemicals, USA

Prof. Akira Isogai

The University of Tokyo, Japan

Dr. Andrew Jones

International Paper, USA

Prof. John Kadla

University of British Columbia, Canada

Prof. Steve Kelley

North Carolina State University, USA

Prof. Hak Lae Lee

Seoul National University, Korea

Prof. Yuji Matsumoto

The University of Tokyo, Japan

Dr. Hiroshi Ohi

Tsukuba University, Japan

Prof. Hannu Paulapuro

Helsinki University of Technology, Finland

Prof. Jack Saddler

The University of British Columbia, Canada

Dr. Michael Yungbao Sun

Meadwestvaco, USA

Mr. Kunitaka

Toyofuku Executive Director, Japan Tappi

Prof. Lisa Viikari

VTT, Finland

Dr. Deniel Rui Wang

Meadwestvaco, USA

Conference Committee

Domestic

Dr. Zhenglei Cao	National pulp and papermaking Institute, China
Prof. Jiachuan Chen	Shandong Institute of Light Industry, China
Prof. Guigan Fang	Institute of Chemical Industry of Forest Product, China
Prof. Beihai He	South China University of Technology, China
Prof. Qinxi Hou	Tianjin University of Science and Technology, China
Prof. Shijun Kuang	China National Pulp and Paper Research Institute,China
Prof. Zhongzheng Li	Nanjing Forestry University, China
Prof. Jisen Shi	Nanjing Forestry University, China
Prof. Yimin Xie	Shandong Light Institute College, China
Prof. Shiyuan Yu	Nanjing Forestry University, China
Prof. Huaiyu Zhan	South China University of Technology, China
Prof. Meiyun Zhang	Shanxi University of Science and Technology, China
Prof. Huamin Zhai	Nanjing Forestry University, China

Organizing Committee

Chairman

Prof. Jisen Shi	Nanjing Forestry University, China, Chair
Ms. Susan Rowlands	TAPPI, USA, Co-chair, TAPPI Liaison

Committee Members

Prof. Hongqi Dai	Nanjing Forestry University, China
Prof. Jianguo Hong	Nanjing Forestry University, China
Prof. Yongcan Jin	Nanjing Forestry University, China
Prof. Zhongzheng Li	Nanjing Forestry University, China
Dr. Guolin Tong	Nanjing Forestry University, China
Prof. Fei Wang	Nanjing Forestry University, China
Prof. Qiang Yong	Nanjing Forestry University, China
Prof. Huamin Zhai	Nanjing Forestry University, China
Prof. Xiaofan Zhou	Nanjing Forestry University, China

Secretary

<u>Dr. Guolin Tong</u>	Nanjing Forestry University, China
------------------------	------------------------------------

General Conference Information

1. Registration

Date	Time	Place
Nov.3	08:00-23:00	JinLing Star Metropole or New century Hotel
Nov.4	08:00-18:00	JinLing Star Metropole Hotel
Nov.5	08:00-18:00	JinLing Star Metropole Hotel

2. Time Table

Date	Item	Time	Place
Nov.4	Breakfast	07:30	The Hotel you are living
	Lunch	12:00-13:15	Nanlin Hotel
	Dinner	18:00-20:00	JinLing Star Metropole Hotel
	Symposium	08:30-12:00	Campus
		13:30-18:00	Campus
Nov.5	Breakfast	07:30	The Hotel you are living
	Lunch	12:15-13:15	Nanlin Hotel
	Dinner	18:00-20:00	JinLing Star Metropole Hotel
	Symposium	08:00-12:15	Campus
		13:30-18:00	Campus
Nov.6	Breakfast	07:30	The Hotel you are living
	Lunch	11:45-13:00	Nanlin Hotel
	Farewell Banquet	18:00-20:00	JinLing Star Metropole Hotel
	Symposium	08:00-11:45	Campus
	Poster session	13:00-16:20	Campus
	Closing Ceremony	16:20-18:00	Campus

Tuesday, November 4 Place: Room 1

8:30-8:50	Opening Remarks Chaired by Prof. Huamin Zhai President, Prof. Shiyuan Yu, Nanjing Forestry University; Dr. Norman F. Marsolan, TAPPI, USA, Dr. Shijun Kuang, National Pulp and Papermaking Institute, China
8:50-10:30	Keynote Speech Chaired by Dr. Shijun Kuang
8:50-9:40	Global Dynamics of the Pulp and Paper Industry Richard Phillips, North Carolina State University, USA
9:40-10:20	Current status and challenge of Japanese Paper Industry Kunitaka Toyofuku, Japan TAPPI
10:20-10:40	Break
	Plenary Lectures Chaired by Yuji Matsumoto
10:40-11:20	The wood-based Biorefinery: A new concept for green chemicals and materials Göran Gellerstedt, Department of Fiber and Polymer Technology, Royal Institute of Technology, Sweden
11:20-12:00	Study on the mild-ECF and TCF bleaching of non-wood pulps Huaiyu Zhan, Sanchuan Guo, Chengfeng Zhang, Jiri Basta, Anette Heijnesson-Hulten, Thomas Greshick, Southern China University of Technolgy, China

Tuesday, November 4				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Engineering Session 1 - Black Liquor Hasan Jameel, North Carolina State University, USA	Pulping and Bleaching Chemistry SESSION I Jianer Jiang, International Paper, USA	Papermaking Chemistry and Engineering SESSION I Michael Yungbao Sun, Meadwestvaco, USA	Plant Fiber Chemistry SESSION I Yuan-Zong Lai, State University of New York, USA
13:30-14:00	BioRegional MiniMill Technology – report on UK Industrial Scale Trials of novel black liquor gasification and energy and chemical recovery system S. Riddlestone, P. Hartwell, BioRegional MiniMills UK Ltd., UK	Composition, Pulping and Bleaching behavior of diverse Biomass J. Ai, U. W. Tschirner, University of Minnesota, USA	A Statistical Process for Preparing Anionic Dispersant and its Application on Coating J. Meng, Y. Jing, Nanjing Forestry University, China	Elucidation and quantification of pseudolignin structures formed during steam explosion J. Li, G. Gellerstedt, K. Toven, KTH, Sweden
14:00-14:30	Study on Nitrogen Fixation of The Ammonia Sulfite Pulping Black Liquor Z. Wang, Z.Z. LI, Y. Yang, L. Xiao, Nanjing Forestry University, China	Surface Properties of Ethanol Pulp Fibers after Alkali Extraction Using AFM and XPS Y. Xu, S. Liu, M. Zhang, K. Li, Shaanxi University of Science and Technology, China	The Damage of Sheets in Recycling Processes and Its Quantitative Expression Part 1: Damage in paper property and in Fibre Properties K. Hu, Z. Zhang, W. Shen, L. Nguyen, Zhejiang University of Science and Technology, China	Studies on the linkages between dehydrogenation polymer and cellulose by carbon-13 isotopic tracer method H. Yang, Y. Xie, L. Yao, Shandong Institute of Light Industry, China
14:30-15:00	Energy Efficiency and Cost Reduction through the Implementation of low pressure sootblowing system D. Tandra, J. Hinman, M. Olson, S. Breaux, Clyde Bergemann, Inc., and Weyerhaeuser Company, USA	Effect of harvesting age on the chemical and morphological properties of Dhaincha (Sesbania aculeata) and its pulpability and bleachability M. Sarwar Jahan, R. Sabina, D.A. Nasima Chowdhury, A. Noorii, B. Tasmin, University of Dhaka, Bangladesh	Analysis of Defective Production Sources of Corrugated Paperboard and Development of On-line Detecting System J-M. Parka, K-E. Min, J-M. Jung, J.-H. Lee, M-S. Kim, Chungbuk National University, South Korea	Variation in the Chemical Structure of Lignin in Tropical Wood Species D. S. Nawawi, T. Yokoyama, Y. Matsumoto, W. Syafii, I. Tomoda, Y. Uchida, University of Tokyo, Japan
15:00-15:30	Studies on the Chelating Reaction and Structure Properties of Ammonium Lignosulfonate Z. Wang, Z.Z. LI, L. Xiao, Nanjing Forestry University, China	Pulp and Paper Mills in Brazil: Production and Waste Management Tendencies A. P. Ribeiro, S. M. Toffoli, M. A. Monteiro, University of Sao Paulo, Brazil	Fibre Fibrillation and Its Impact on Sheet Properties X. Wang, Thad C. Maloney, Hannu Paulapuro	
15:30-15:45	Break			

Tuesday, November 4				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Engineering Session 1 - Black Liquor Hasan Jameel, North Carolina State University, USA	Pulping and Bleaching Chemistry SESSION II Yonghao Ni, University of New Brunswick, Canada	Papermaking Chemistry and Engineering SESSION II Deniel Rui Wang, Meadwestvaco, USA	Plant Fiber Chemistry SESSION II T. Yokoyama, University of Tokyo, Japan
15:45-16:15	Determination of Oxalate in Mill Liquors by Headspace Gas Chromatography H. Li, X-S. Chai, N. DeMartini, H. Zhan and S. Fu, South China University of Technology, China	Effect of AQ addition on highly concentrated PS cooking - A basic study on a new process by electrolysis of white liquor K. Watanabe, Y. Okamoto, T. Masaki, Y. Nanri, Nippon Paper Industries Co. Ltd., Japan	Hemicellulosic Derivatives with Cationic Groups as Wet End Additive in Papermaking J. Ren, F. Peng, W-y. Li C-Fu. Liu, R-c. Sun, South China University of Technology, China	Quantitative analysis of technical lignins by a combination of 1H-13C HMQC and 13C NMR methods E. Capanema, M. Balakshin, H-m. Chang and H. Jameel, North Carolina State University, USA
16:15-16:45	Review of Sodium Salt Scaling in the Liquid Streams of the Chemical Recovery Cycle of Kraft Pulp Mills N. Demartini, W. J. Frederick, Georgia Institute of Technology, USA	Fate of anthraquinone compounds in modified kraft-anthraquinone cooking J. Tanaka, H. Ohi, T. Yokoyama, Y. Matsumoto, Tsukuba University, Japan	Investigation of the polymer with vinyl groups in paper strength improvement X. Zhang, F. Wu, P. Zhou, Zhejiang Science and Technology University, China	Preparation and characterization of amphiphilic lignin derivatives as surfactant H. Homma, Y. Uraki, M. Ubukata, S. Kubo and T. Yamada, Hokkaido University, Japan
16:45-17:15	Study on Bagasse Pulp Black Liquor Treatment by Ultrafiltration and Acidification L-h. Huang, R-d. Yang, Yang-fei, Z-s. Wang, K-f. Chen, L-h. Huang, South China University of Technology, China	Effect of Polysulfide and Anthraquinone on Hexenuronic Acid Formation during Kraft Pulping S. Takahashi H. Ohi, Tsukuba University, Japan	Monitoring Colloidal Organics to Better Manage Deposit Runnability Issues R. D. Haynes, S. Banerjee, Enka Chemical, USA	Reactivity of b-O-4 determination methods to artificial b-O-4 lignin polymers Y. Kanazawa, T. Kishimoto, K. Koda, K. Fukushima Y. Uraki, Hokkaido University, Japan
17:15-17:45	A New Model to Describe Heat Transfer in a Calendering Nip Including Paper Thermal Properties S. Zhao, S. Schabel, Voith Paper GmbH, Germany	A Novel Evaluation Method of Closed-loop Identification for Paper making Multivariable Control J. Liu, H. Liu, W. Shen, South China University of Technology, China	Improvement of Paper Strength by Partially Aminated Polyvinyl formamides F. Wang, Q. Xie, Nanjing Forestry University, China	Studies on the effect of ball milling on lignin structure by the use of complete wood dissolution Z. Wang, T. Yokoyama, H-m. Chang, Y. Matsumoto, University of Tokyo, Japan

18:00-20:00 **Dinner****Tuesday, November 5**

	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Engineering Session 2 - Energy and Economics Danny Tandra, Clyde Bergemann Inc.	Pulping and Bleaching Chemistry SESSION III Huaiyu Zhan, South China University of Technology, China	Papermaking Chemistry and Engineering SESSION III Yongzhong Yu, UPM, Finland	Biotechnologies SESSION I Leif J. Jönsson, Umea, University, Sweden
8:00-8:30	Equilibrium With Time-To-Build - A Real Options Approach to Investments Decisions in the Pulp and Paper Industry Venkata Parthasarathy	Influence of Bleaching Sequence on the Brightness Stability and Chemical Surface Properties of Kraft Bamboo Pulps A. Heijnesson-Hultén, J. Basta, T. Greschik, C. Zhang, S. Guo H. Zhan, Eka Chemicals AB, Sweden	The Influence of PAE/IPN Multilayers Deposited on Pulp Fibres on Paper Sheet Properties C. Xu, G. Wang, Y. Guo and F. Chen, Tianjin University of Science & Technology, China	In vitro fermentation characterization of low concentration of xylooligosaccharides prepared from corncob xylan by Bifidobacterium adolescentis J. Zhang, X. Zhang, Q. Yong, Y. Xu, S. Yu, Nanjing Forestry University, China
8:30-9:00	The actuality and Analyses of Energy Consuming in the China's Paper Industry Y. Zhang, B-y. Liu, Q.-w. Ping, Dalian Polytechnic University, China.	Biobleaching and Fiber Properties improvements by Laccase-Mediator System M. Liu, H. Zhan, S. Fu, H. Liu and H. Li, South China University of Technology, China	Effect of Transparentizing Agent on The Transparent Performance of Whole Stalk Kenaf Mulch Film J. Zhou, C. Zhao, X. Ding, Z.-J. Ding, Dalian Polytechnic University, China	Production of Fungal Laccase and Its Immobilization N-S. Cho, S-J. Shin, Y-J. Choi, A Leonowicz, Chungbuk National University, South Korea
9:00-9:30	Energy Analysis of Co-supply of Heat and Power System in the Pulp and Paper Mills Y. Yin, J. Tao, J. Li, H. Liu, H. Liu, X. Li, South China University of Technology, China	The Effects of Acid- and Xylanase Pretreatments on DED Bleaching of Bagasse Kraft Pulp H. Resalati, Gorgan University of Agricultural Sciences and Natural Resources, Iran	Retention of Calcium Carbonate Fillers on Fines Surfaces H. Liimatainen, A. Haapala J. Niinimäki, University of Oulu, Finland	A Kinetic study on enzymatic hydrolysis of alkali pretreated corncob residue J. Ouyang, Z. Dong, X. Li, C. Y. Han, Nanjing Forestry University, China
9:30-10:00	The Effects of Enzyme Pretreatment Prior to Refining on Energy Consumption and Properties of Poplar Mechanical Pulp		Influence of Pulp Fibers on the Conductivity of Polyaniline-coated Electroactive Paper	

	F. Chen, S. Zhang, G. Wang, S. Wang, L. Qi, Tianjin University of Science & Technology, China		X. Qian, North East Forestry University, China	
10:00-10:15	Break			
Tuesday, November 5				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Engineering Session 2 - Energy and Economics Danny Tandra, Clyde Bergemann Inc.	Pulping and Bleaching Chemistry SESSION IV Guigan Fang, Institute of Chemical Industry of Forest Product, China	Papermaking Chemistry and Engineering SESSION IV Thad C. Maloney, KCL, Finland	Biotechnologies SESSION II Youngcan Jin, Nanjing Forestry University, China
10:15-10:45	Applications of a new sludge dewatering agent C. Wu, S. Li; X. Xie; Y. Zhang and C. Zhao, Shandong Institute of Light Industry, China	Reactivity of active oxygen species toward the anomeric position of carbohydrate T.Yokoyama, F.Konishi,Y. Matsumoto, University of Tokyo, Japan	Cyclical Behavior of Microstickies in Process Waters S. Banerjee, R. Yang, Georgia Institute of Technology, USA	Piezoelectric Sensors to Screen Enzymes in Cellulose Processing O. J. Rojas, J. A. Heitmann, M. Österberg, North Carolina State University, USA
10:45-11:15	Design and Study on Hydraulics Characteristic of Multistage Anaerobic Granular Sludge Reactor H. Zeng, S-f. Wang, Y-n. Zhu, Y-f. Zhang, Y. Qian, Guangxi University, China	Understanding the Chemical Nature of O₂ Delignification Reactions R. Yang and Y-Z. Lai, SUNY at Syracuse, USA	Effects of Polyelectrolyte Complexes on the Drainage and Paper Strength Properties E. I-C. Wang, K-T. Wang, Y-S. Perng, Taiwan Forestry Research Institute, Taiwan, China	Effect of enzymatic beating on the electrokinetic properties of bleached hardwood pulp Y. Fu, M. Qin, S. Shi and Z. Shao, Shandong Institute of Light Industry, China
11:15-11:45	The Pinch Point Technique And Its Application In The Equipment Of Kamyf Continuous Digesters H. Zhang, Q. Zhai, R. Wang, H. Chen, Shaanxi University of Science and Technology, China	Comparison between Laccase and Xylanase in modification of Old Corrugated Container Pulp J-x. You, Y. Jing, H-l. Lian, J. Ou Yang, Nanjing Forestry University, China	Kinetic Study of Oil-Proof Agent Adsorption on Fiber Interface G. Yin , H. Zhu , Y. Qin, Xi. Chai, Guangxi University, China	Applying biotechnology to design tree composition for value-added products S. Potter, S. Loffler, S. Southerton, CSIRO Materials Science and Engineering, Australia
11:45-12:15	Preliminary Study on the Characteristic of Main Mineral Elements in Phyllostachys edulis Q. An, S. Wu, North East Forestry University, China	Rebuilding of Compound Middle Lamella and Enhancement of paper strength by lignification Y. Xie, F. Zhao, S. Wang, Shandong Institute of Light Industry, China	Study on the Wet Picking/Repulsion of the Coated Paper Quality Wenhua Zhou, Beihai He, South China University of Technology, China	
12:15-13:15	Lunch			

Tuesday, November 5				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Biorefinery Session 1 - Value Prior to Pulping Kristiina Iisa, National Renewable Energy Laboratory, USA, USA	Pulping and Bleaching Chemistry SESSION V Meiyun Zhang, Shaanxi University of Science and Technology, China	Papermaking Chemistry and Engineering SESSION V Beihai He, South China University of Technology, China	Plant Fiber Chemistry SESSION III Yasumitsu Uraki Hokkaido University, Japan
13:30-14:00	Effect of Lignin Content of Pre-hydrolyzed Pulp on Enzymatic Hydrolysis H. Jameel, R. B. Phillips and H-m. Chang, North Carolina State University, USA	Lignin Structural and Molecular Weight Changes and their Relationship during Kraft Pulping Yu Liu, Huaiyu Zhan, Jiachuan Chen, Dimitris Argyropoulos, Shandong Institute of Light Industry, China	Study on Rheological Properties of Paper Coating Colors Containing Silver Zeolites F. Yang, K. Chen, R. Yang, J. Li, L. Mo, W. Zhu, South China University of Technology, China	Preparation of bio-nanofibers from natural materials Y. Fan, T. Saito, A. Isogai, University of Tokyo, Japan
14:00-14:30	Near-Neutral Pre-Extraction before Hardwood Kraft Pulping; a Biorefinery Producing Pulp, Ethanol and Acetic Acid A. van Heiningen, H. Mao, J. Genco S-H Yoon, H.Zou, H. Pendse, University of Maine, USA	Structural analysis of aromatic ring in residual lignin from hardwood kraft pulp by analytical pyrolysis A. Hasumi, A. Nakagawa-izumi, H. Ohi S. Doi, University of Tsukuba, Japan	Starch/stearic acid modified PCC and electrokinetic characteristics of its slurry Y-z. Wang, J-c. Pei, S-y. Zhang, Y-me. Hu, Tianjin University of Science & Technology, China	An Approach to Prepare Antimicrobial Fibers with Wood Periodate Oxycellulose Fibers Q. Hou, W. Liu, Z. Liu, L. Bai, Tianjin University of Science & Technology, China
14:30-15:00	Alkali Pre-treatment for the bioethanol fuel production from lignocellulosic biomasses T. Ikeda, T. Sugimoto, M. Nojiri, K. Magara, Forestry and Forest Products Research Institute of Japan	Formation of Lignin- Carbohydrate Complexes during Kraft Pulping Y. Xie, Y. Zhou, Shandong Institute of Light Industry, China	Preparation of Cross-Linked Cationic Polyacrylamide and its Application as Retention and Drainage Aids in Papermaking Processes Z. Fang, X. Zhou, Nanjing Forestry University, China	Chemical Modification of Cellulose using Alkyl Ketene Dimers Y. Yoshida, A. Isogai, University of Tokyo, Japan
15:00-15:30	Kraft Pulping of Hot-water Extracted Eucalyptus Wood Chips G. Mishra, S. Liu, SUNY at Syracuse, USA	Correlation between Hardwood Lignin Structure and Pulping Performance. M.Balakshin, E. Capanema, H.-m. Chang, H. Jameel, North Carolina State	Effects of Coupling Agent, Initiator and Nanofiller on the Properties of PE Composites R. Gu and B. V. Kokta, University of Quebec at Trois Rivieres, Canada	

		University, USA		
15:30-15:45	Break			
Tuesday, November 5				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Biorefinery Session 1 - Value Prior to Pulping	Pulping and Bleaching Chemistry SESSION VI	Papermaking Chemistry and Engineering SESSION VI	Plant Fiber Chemistry SESSION IV
	Kristiina Iisa, National Renewable Energy Laboratory, USA	Nam-Seok Cho, Chungbuk National University, Korea	Akira Isogai, The University of Tokyo, Japan	Yimin Xie, Shandong Light Institute College, China
15:45-16:15	New Method For Isolation of Lignin-Carbohydrate Complexes From Wheat Straw Alkali Black Liquor	Pulping Kinetics as a Tool to obtain Tailor-Made Pulp	Function of Petroleum Resins as Rosin Extenders in Rosin Sizing	Lignin Content in Non-wood Cell Walls
	C. Zhu, H. Zhai, Nanjing Forestry University, China	U. Germgård, Dan Johansson, Karlstad University, Sweden	Z-P. Song, W-X. Liu, Shandong Institute of Light Industry, China	H. Nakamura, Z. Jin, T. Yokoyama, Y. Matsumoto, University of Tokyo, Japan
16:15-16:45	Impact of the Integrated Pulp Mill/Biorefinery on the Chemical Recovery Cycle	Electron beam irradiation as a pretreatment of industrial hemp (Cannabis sativa L.) for enzymatic saccharification	Effects of Different Kinds of Binder on the Photocatalytic and Optical Properties of TiO₂ Thin Film	Study of Lignosulfonates Self-Assembled Films with Atomic Force Microscopy
	N. Demartini, S. J. Lien, W. J. Frederick, Jr., Georgia Institute of Technology, USA	Soo-Jeong Shin, Yong Joo Sung, Jong-Moon Park and Nam-Seok Cho,	H. Zhu, K. Chen, D. Qi, South China University of Technology, China	S-y. Fu, H. Liu, P. Zhuo, H. Zhan, South China University of Technology, China
16:45-17:15	Conversion of Corn Stover into Fermentable sugars by Dilute Sulfuric Acid Pretreatment and Enzymatic Saccharification	Liquefaction of Bagasse in Supercritical Water	Calcination of Bath Kaolin and Its Dispersing Performance	Graft Copolymerization of Reed Ethanol Lignin and Acrylamide
	S. Chen, Q. Yong, Y. Xu, J. Zhu and S. Yu, Nanjing Forestry University, China	J. Wu, F. Chen, X. Wu, South China University of Technology, China	L. Zhao, B. He, South China University of Technology, China	Q. Ping, L. Yang, L. Zhang, Q. Zhao, Dalian Polytechnic University, China
17:15-17:45	Production of Ethanol from Forest Residues and Hog Fuel in a Pulp Mill		Effect of Co-binder for Coating on the Performance of Fluorescent Optical Brightening Agents (OBAs)	Study on the Miscibility and Liquid Crystallinity of Chitosan/ Methylcellulose Blends
	K. Iisa, J. Frederick, K. Knutson, A. Ragauskas, N. DeMartini, Georgia Institute of Technology, USA		Y-S. Perng, E. I-C. Wang, S-C. Tsai W-C Yang, Da Yeh University, Taiwan, China	P. Liu, C. Si, Z. Liu L. Hui, Tianjin University of Science & Technology, China
18:00-20:00	Dinner			

--

Tuesday, November 6

	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Biorefinery Session 2 – Bioconversion Gopal Goyal, International Paper, USA	High Yield Pulpig SESSION I Zhirun Yuan , Fpinnovations-Paprican, Canada	Papermaking Chemistry and Engineering SESSION VII Fei Wang, Nanjing Forestry University, China	Secondary Fiber Recycling Rosencrance Scott, Kemira, Finland
8:00-8:30	Repurposing a Kraft Pulp and Paper Mill to the Production of Ethanol R. B. Phillips, H. Jameel, E. C. Clark Jr., North Carolina State University, USA	Chemical Mechanical Pulps From Eucalyptus and Their Comparison with Eucalyptus Chemical Pulps E. C. Xu, Andritz, USA	Study on the Reversible Thermochromic anti-counterfeiting Paper Prepared by Mixed Papermaking C. Dong , Z. Long, Z. Pang, Jiangnan University, China	Is Your Paper Machines Depressed? R. Daniel Haynes, Eka Chemicals, Inc., USA
8:30-9:00	Technical Economic Evaluation of a Northern Hardwood Biorefinery Using the “Near-Neutral” Hemicellulose Pre-Extraction Process H. Mao, J. M. Genco, A. van Heiningen, H. Zou, J. Luo and H. Pendse, University of Maine, USA	TCF Bleaching of Kraft Pulp from Acacia Auriculiformis Willd Woodchips with Assistant of Enzymatic Treatment Y. Deng, G. Fang,, Institute of Chemical Industry of Forest Products, CAF, China	Research on the Characteristics of Inorganic Fiber in Sheet-forming C-s. Zhao, W. Han, D. Yu, K. Chen, Shandong Institute of Light Industry, China	Polymer-Based Peroxide Stabilizer for Recycle Fiber Bleaching J. Huang, S. Rosencrance, Kemira Chemicals Inc., USA
9:00-9:30	Use of Near Infrared Spectroscopy to Predict Compositional Variations in Woody Biomass and the Effects of Compositional Variations on the Costs of Producing Biofuels S. S. Kelley, R. B. Phillips, E. A. Capanema, D. W. Hazel, North Carolina State University, USA	Silicate Free PRC-APMP and BCTMP Bleaching Solutions M. Sankari, R. Aksela, N. Kavander, T. Keskinen, J. Konn, Kemira, Finland	Influence of Fiber Flexibility on Paper Bulk and Other Properties of Pulp Blends Involved with Addition of BCTMP L. Zhao, Y. Gao, M. Qin, F. Zhang, Shandong Institute of Light Industry, China	Microstickies Controlling and Paper Strengthening Effects of Highly Cationic Starches with Different Branching Degrees and Molecular Weights L. Wang, L. Luo and W. Yang, Tianjin University of Science & Technology, China
9:30-10:00	Bioconversion of Waste Paper to Fermentable Sugar	DCS Flocculation Behavior in HYP-Containing Furnish	Study on Preparation of Chitosan Modified Amphoteric Polyacrylamide as Strengthening Agent	

	N. Liu, M-h. Qin, Y-q. Wang, Z. Wan, Shandong Institute of Light Industry, China	H. Zhang ¹ , H. Hu, Z. He, Y. Ni, Tianjin University of Science & Technology, China	W. Zhu, C. Zhao, F. Yang, C. Wu, K.. Chen, South China University of Technology, China	
10:00-10:15	Break			
Tuesday, November 6				
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Biorefinery Session 2 – Bioconversion Gopal Goyal, International Paper, USA	High Yield Pulping SESSION II Eric C. Xu, Andritz, USA	Papermaking Chemistry and Engineering SESSION VIII Qinxi Hou, Tianjin University of Science and Technology, China	Effluent Treatment Yuanhsing Perng, Dayeh University, Taiwan, China
10:15-10:45	The Effect of Low and High Temperature Thermomechanical Refiner Treatment on the Enzymatic Saccharification of Switchgrass M. Byrd, W. Johnson, H. Jameel, North Carolina State University, USA	A Comparison between Wheat Straw and Whole and Depithed Bagasse Pulps Obtained by Chemi-Thermo-Mechanical Pulping M. I. Aujla, M. A. Kashmiri, B. Ali, M. Hussain, A. Adnan and M. Z. Qureshi, FC College, Lahore	The Adsorption of Cationic Carboxymethyl Starch on Calcium Ions C. Ye, H. Dai, C. Pi Nanjing Forestry University, China	Local Air content and Deaeration Efficiency in Open Channel Flow A. Haapala, A. Laari, T. Stoor, H. Liimatainen, J. Niinimäki, University of Oulu University, Finland.
10:45-11:15	Enzymatic Hydrolysis of Wheat Straw with Acetic Acid Catalyzed Steam Explosion Pretreatment L. Hui, Z. Liu, P. Luo, Tianjin University of Science & Technology, China	Alkaline Peroxide Bleaching and Its Impact on the Properties of High Yield Pulp (HYP) Y. Ni, Z. He, Y. Zhou, University of New Brunswick, Canada	Simulation-based Optimization and Decision Support for Papermaking J. Hämäläinen, E. Madetoja, H. Ruotsalainen, University of Kuopio, Finland	Toxicity Identification and Reduction of Juvabione and Nickel in Paper Mill Effluents using a Combination of Metal-chelating and Activated-charcoal Treatment H. Araki ¹ , A. Nakamura, K. Kishi ¹ , N. Onikura, Japan Pulp and Paper Research Institute, Japan
11:15-11:45	Wood-Based Biorefinery: Technological Overview and Benefits T. E. Amidon and S. Liu, SUNY at Syracuse, USA	Synergistic Effects between High Bulk Aspen APMP and Wheat straw chemical Pulp N. Xu, H. Zhai, Nanjing Forestry University, China	Study on Synthesis of Modified Polyvinyl Alcohol and its Application F. Meng, Y. Jing, X. Fan, H. Chen, Nanjing Forestry University, China	Preparation of PAQD Flocculant and Its Application in Treatment of Papermaking Wastewater Z. Sui, X. Zhao, Qiqihar University, China
		Refining Energy Reduction and Pulp Characteristic Modification of Alkaline Peroxide Mechanical Pulp (APMP) through Enzyme Application Peter W. Hart, Darrell M. Waite, Luc Thibault, John Tomashek		

11:45-13:00

Lunch

Tuesday, November 6

13:00-16:20	Poster session		
16:20-18:00	Closing Ceremony Chaired by Prof Hou-min Chang	16:20-17:00	Plenary Lecture: Cellulose single nanofibers prepared by TEMPO-mediated oxidation of native cellulose –Fundamentals and Applications Akira Isogai and Tsuguyuki Saito, University of Tokyo, Japan
		17:00-17:40	Keynote Speech: The Role Of Nanjing Forestry University in Pulp and Paper Education and Research of China Zhongzheng Li, Nanjing Forestry University,
		17:40-18:00	Closing Remarks President, Prof. Shiyuan Yu Nanjing Forestry University; Dr. Norman F. Marsolan, TAPPI, USA,
18:00-20:00	Farewell Banquet		

Poster Session

Thursday, November 6 Poster Session Main Hall

13:30-16:20

Plant Fiber Chemistry

P1 Study on Chemical Structure Characteristics of Moso Bamboo EMAL

Rui Lou, Shu-bin Wu, Yang Tan, Qing Yang

P2 The Chemical Study of Polysaccharide of *Usnea montis-fuji*

Feng Peng, J. Li Ren, W. Ying Li, C. Fu Liu, R. Cang Sun, Y. Quan Su

P3 Cytotoxic Compounds from Stem Bark of *Ulmus davidiana Planchon var. japonica* Nakai

Chuan-Ling Si, Ying Xu, and Zhong Liu

P4 Study on Birch APMP and P-RC APMP Pulping

Defang Tang, Ying Han, Wenjing Song, Yunzhan Zhang

P5 Synthesis and Characterization of Glycidyl Methacrylate Grafted Eucalyptus Pulp

Jun Huang, Huamin Zhai, Xiaojun Wang

P6 Elucidation of the Association between Lignin and Carbohydrates in Rice Stalk by Carbon-13 Isotopic Tracer Technology

Haitao Yang, Yimin Xie, Lan Yao

P7 Biomimetic Degradation of Lignin Model Compound and Milled Wood Lignin with Co-Salen System

Honggui Gao, Yimin Xie, Haitao Yang, Yuanfang Sun

P8 Characterisation of Phenolic Acids and Antioxidant Activities of *Paulownia tomentosa var. tomentosa* Leaves

Chuan-Ling Si, Xiao-Juan Deng, Qian Xu, Zhong Liu

P9 Characteristic of Bamboo Microfibrillated Cellulose and Its Application as Strength improving

Junhua Zhang, Guanghe Wang, Shuangfei Wang, Hainong Song

P10 Synthesis of Polyurethane Composite with Acetic Acid Lignin

Yimin Xie, Wang Peng, Shaoqiong Zeng

P11 Study on Mechanical Pulp's Fiber Surface Properties Using AFM and XPS

Yongmin Deng, Beihai He, Liying Qian

Pulping and Bleaching Chemistry

P12 Comparison of Different TCF Bleaching Sequence for Eucalyptus Kraft pulp

Xuefeng Yin, Tao Lin

P13 Comparison of Different ECF Bleaching Sequence for Kraft Eucalyptus pulp

Xuefeng Yin, Tao Lin

P14 Study on Configuration Transformation of Lignin in Wheat Straw Auto-Catalyzed Ethanol Pulping Process

Meiyun Zhang, Xiaopeng Yu

P15 The Stabilization of Different Modulus Sodium Silicate on Alkaline Peroxide Decomposition in the Presence of Mn (II)

Dongmei Yu, Kefu Chen, Chuanshan Zhao, Rendang Yang

P16 APMP Pulping Quality and its Improvement of Temperate Zone Mixed Hardwood

Ying Han, Shijie Zhang, Hui Jin, Yunzhan Zhang

P17 ECF Bleaching Sequences of Soda-AQ Pulp of Wheat Straw

Jiachuan Chen, Guihua Yang, Yong Wang, Yi Dong

P18 Investigation in to the Effect of Pinus Radiata Kraft Pulping Circumstances on its Process Control Parameters

Ali Abolfathi, Seyed Mohammad Hossein Nabavi

P19 Pre-extraction of Hemicellulose in Soda-AQ Pulping of Aspen

Yuxin Liu, Hui ren Hu, Bing Sun

P20 A Novel CMP Process of Wheat Straw Pretreated by GIF Biomimetic Method

Qinghui Lu, Yimin Xie, Song Wang, Haitao Yang

P21 Modification of Kraft Pulp with Laccase and Methyl Syringate

Na Liu, Shulan Shi, Menghua Qin

P22 Structure Changes of Residual Lignin from Wheat Straw during Soda-AQ Cooking

Chengqiang Yuan, Jiachuan Chen, Yu Liu, Guihua Yang, Juan Wang

P23 Stickies Deposition in Blends of Deinked Pulp and Bleached Chemi-Thermo Mechanical Pulp

Zongquan Li, Huaiyu Zhan, and Menghua Qin

P24 VIO-mediated Electrochemical Delignification and subsequent bleaching of Triploid of Populus Tomentosa Kraft Pulp

Fangong Kong, Wei Zhang, Shoujuan Wang, Huaiyu Zhan

P25 OQPap Bleaching of Bamboo EMCC Pulp

Shi-lin Cao, Li-hui Chen, Liu-lian Huang

P26 Dissolution of Eucalyptus Wood Components in Hot Water Prehydrolysis

Congcong Chi, Zeng Zhang, Xuan Liu, Weiwei Ge

P27 Characterization of Alkali-tolerant Thermostable Compound Enzyme from *Saccharomonospora Viridis* and its Synergistic Bleaching Mechanism on Pulp

Yong Zhang, Junwen Pu, Xiaohua Qi, Sheng Yao, Yong Li

P28 Preparation of Regenerated Leathern Paper with Plant Fiber

Jinxia Ma, Xiaofan Zhou, Lihua Ma, Zhongzheng Li

P29 Influence of Water Pre-hydrolyzing Eucalyptus Chips on the Following Alkaline Pulping

Xuan Liu, Zeng Zhang, Cong-cong Chi, Wei-wei Ge

P30 Effect of High-shear Fiber Kneader Treatment on the Properties of Pulp Fibers

Huiping Xie, Qingxi Hou, Xia Si, Yimei Hong

P31 Study on Pinus Massonian Kraft Pulp Bleaching by Laccase/Xylanase System

Shufang Wu, Jixue You, Qihua Lai

P32 Preliminary Study on Molded Pulp Products by Using Blast Furnace Slag Fibre

ShiYong Li, GuangWei Sun, RuNan Yang, Lin Ding

P33 Comparison of Delignification Ability of Three Laccase Systems

Ji-xue You, Yu-xiu Wang, Guo-lin Tong, Jia Ouyang

P34 To Obtain High Brightness for China Fir CTMP Using Multi-stage Bleaching

Kuizhong Shen, Guigan Fang, Ping Li, Fuxiang Chu

P35 Study on Pulping of Bagasse with Formic Acid and its Bleaching

Shiyu Fu, Qiliang Tu, Huaiyu Zhan, Xinsheng Chai

P36 Study on the Reduction of Refining Energy Consumption by Enzyme Treatments

Yongsheng Mu, Jiachuan Chen, Guihua Yang, Zhiqiang Pang

P37 Study on Enzymatic Treatment of Simao Pine Bleached Kraft Pulp for Improved Refinability

Zhengjian Zhang, Hui ren Hu

P38 Study on Dissolving Pulp of Bamboo

Xiaohua Qi, Junwen Pu, Yong Zhang, Yong Li

P39 The Influence of Endo - cellulase on the Bleached Wheat Straw Pulp's Drainage Property

Lu Dai, Yunfeng Cao, Shufang Wu, Shaojun Ding, Dongting Xue, Dan Zhao

P40 Substitution of Magnesium Hydroxide for Sodium Hydroxide as the Alkali Source in Peroxide Bleaching of HYP

Hui ren Hu, Hongjie Zhang

P41 Alkali Split Addition during Oxygen Delignification of Wheat Straw Soda-AQ Pulp

Yuxiu Wang, Yiqin Yang, Guolin Tong

P42 Study on Alkali Pretreatment and Oxygen Delignification of Used Brown Kraft

Qing Luo, Xinping Li, Ye Liu

P43 A New Energy-saving Technology of Mechanical Pulping

Peng Dai, Xiaofan Zhou, Jinxia Ma, Yongyun Deng, Guigan Fang

P44 Extended Oxygen Delignification of Acacia Kraft Pulp with Alkali Split Addition

Guolin Tong, Chunxia Shi, Yuxiu Wang, Yiqin Yang

P45 Study on Soda-AQ Pulping of the Fast-growing Poplar with Pretreatment Processes

Guihua Yang, Hongqi Dai, Kefu Chen, Jiachuan Chen, Yi Dong

P46 Surface Properties of Hemicellulase-Laccase Mediator System Deinked Pulp

Yanpeng Wang, Qinghua Xu, Menghua Qin, Zongquan Li

P47 Optimizaiton of Neutral Deinking Process and Comparison with Alkaline Deinking of Old Newsprint

Shoujuan Wang, Yongsheng Mu, Jinmei Han, Menghua Qin, Fangong Kong

P48 The Resin Dissolved Rule of ONP Deinking Pulp

Shu-mei Wang, Kai Dai, Ben-feng Wang, Ming Guo, and Hong-qi Dai

P49 Synergistic Reinforcement of AOCC Pulp by Hemicellulase Combined with Laccase/MS System

Bing Sun, Shulan Shi¹, Yuxin Liu, Jicheng Pei

P50 Development of a Laboratory Flootation Cell and its Deinking Efficiency

Rong-gang Li, Xiao-feng Xie¹, Ao-lei Wang, Ke-fu Chen

P51 Effects of Enzymatic Treatments on the Properties of Dissolved and Colloidal

Substances Released from ONP
Hongyan Mou, Huaiyu Zhan, Shiyu Fu, Yao Zhan

P52 Determination of Chromium, Cadmium and Lead in De-inked Waste Paper and Board

Meigui Xue, Chongxing Huang, Shuangfei Wang, Chun Ouyang

P53 The Influence of Biological Enzyme on Hydrogen Peroxide Bleaching of Wastepaper Pulp

Chengrong Qin, Huawei Zheng, Wenxing Qin, Shuangfei Wang

P54 Comparison between Two Enzyme Systems in Modification of Recycled Corrugated Linerboard

Ji Zhou, Jiajia Meng, Xinnan An, Jixue You

Papermaking Chemistry and Engineering

P55 Synthesis of Formaldehyde-free Color Fixative Agent and Its Application in Paperboard Dyeing

Yanxin Liu, Yulong Wang, Kexin Hu, Xuejia Wu

P56 Synthesis of PAMAM Dendrimer and its Application as Retention Aid

Qianqian Wu, Yingjuan Fu, Menghua Qin

P57 Research on the Pulp of Carbon Fiber Paper for Fuel Cell

Wenjia Han, Chuanshan Zhao, Dongmei Yu, Kefu Chen

P58 Study on Performance of Retention and Drainage of Cationic CMS

Feng You, Hongqi Dai, Chenzhong Pi, Xuexia Shi, Guangxiang Yuan, Lu Dai

P59 Application of Starch Grafted Polyacrylamide in Papermaking

Quanxiao Liu, Hua Cao, Ying Xiang, Shujing Liu, Wencai Xu

P60 Preparation and Application of Cationic Polyurethane Surface Sizing Agent

Jianfeng Xu, Hui ren Hu

P61 Study on Coating Technologies and Coating Formulations of Photo Ink-jet Paper

Chuanshan Zhao, Wenjia Han, Yuanfei Zhao, Kefu Chen

P62 Pigment Blends and Coating Properties Effect on the Print and Optical Properties of the Coated Paper

Ming-hui Teng, Chuan-shan Zhao, Dong-mei Yu

P63 Development of Rosin-Based Polyurethane Sizing Agent

Jianfu Liu, Yimin Xie

P64 Application of the Polymer system of Cationic Copolymer/Modified Bentonite on the Retention and Drainability of Deinked Pulp

Nan Cao, Zhu Long, Quan-Xiao Liu, Hu-Nan Liang

P65 Study on the Characteristic of Cationic Humite Micro-particle and Its Effect as Retention Aid to Paper Stuff

Bin Zu, Xinxing Xia, Feng Xu, Fang Hu, Xue-dong Wu, Hong Zhao

P66 Effect of Retention Systems on Fractal Properties of Floccs of PCC Suspension

Fang Hu, Hui ren Hu

P67 Study on Refining Property of Chrysotile Fibers and Its Effect on Tensile Strength of Chrysotile Latex Sheets

Xinxing Xia, Cheng Chang, Nana Guo

P68 Application of the Collagenous Fiber from the Solid Waste of Leather for Paper-making

Jian Wang, Xi Chen, Zhijie Wang

P69 Preparation of Cationic Polyacrylate Emulsion and Its Application in Papermaking

Xin Zhao, Shucai Li, Zhihui Sui

P70 Preparation of Quaternary Ammonium Salt of Chitosan and Its Antimicrobial Property for Paper

Pengtao Liu, Zhong Liu, Chuanling Si, Lanfeng Hui, Meifang Lu

P71 A Study on the High Charge Density Polyamine Systems to DCS Control of Recycled Newspaper Pulp

Qijie Chen, Fushan Chen, Ping Wang, Kexin Hu

P72 The Preparation of a Novel AKD Emulsion and Its Application

Fu-Shan Chen, Cui Huang, SongLin Wang, XinHua Jin

<p>P73 Characterization of Different Chemical Pulp Fines and Their Influence on Paper Properties Tao Lin, Xuefeng Yin, Mousa M. Nazhad</p>	<p>P81 Measurement of Microstickies Mahendra Doshi, Robert de Jong, Salman Aziz, Carl Houtman</p>	<p>P89 Hydrophobically Modified Fillers Used as Sizing agent in Papermaking Deqing Yang, Wenxia Liu</p>
<p>P74 Controlling of DCS of Wastepaper Pulp with PVAm/HCS/CPAM Triple System Qijie Chen, Fushan Chen, Ping Wang, Kexin Hu</p>	<p>P82 The Synergism Behavior of Both Inorganic Salts and DCS on the Hydration of Fines Mincheng Qian, Hongqi Dai, Chenzhong Pi, Chsunhong Ye, Shumei Wang</p>	<p>P90 The Synergism Behavior of Both Inorganic Salts and DCS on the Hydration of Fines Mincheng Qian, Hongqi Dai, Chenzhong Pi, Chunhong Ye, Shumei Wang</p>
<p>P75 Preparation and Application of Active Amphoteric PAM as Papermaking Additive Xian-mei Zhu, Xiu-mei Zhang</p>	<p>P83 The Influence of the Coating Factor on the Paper Surface Property about Oil-Resistant and Water-Resistant Jian Chen, Hongxiang Zhu, Yonghong Li, Shuangfei Wang</p>	<p>P91 Study on Color Quality of Glossy Colored Ink-jet Paper Zhan-jun Si, Juan Lin, Hui-hui Song, Xiao-Nao Liu, Yin-Li Liu</p>
<p>P76 A Dynamic Retention Mechanism Effect of Filler on Fibers Jin-lan Cheng, Hua-min Zhai</p>	<p>P84 Beating Characteristics of PPTA fibers and Its Influence on Tensile Strength of Non-asbestos Sheet Xinxing Xia, Yanna Cheng</p>	<p>P92 The Effects of Precipitated Calcium Carbonate on the Rheology of Coating Colors and Properties of Coated Paper Yi Jing, Ji Zhou, Jiajia Meng, Fancui Meng</p>
<p>P77 Improving Filler Content through Coflocculation of Fines and Filler Tao Lin, Xuefeng Yin, Mousa M. Nazhad</p>	<p>P85 Direct Measurement of the Adhesion Forces between Aramid Fiber-fibrils Surfaces by AFM Sufeng Zhang, Meiyun Zhang</p>	<p>P93 Solid Stabilized ASA Emulsions: Preparation and Sizing Performance Dehai Yu, Wenxia Liu</p>
<p>P78 Dye Application in Fine Paper Grades Hongbin Liu, Wei Song, Rongye Dong</p>	<p>P86 Effect of Lipase and Laccase on the Properties of Colloidal Substances Released from ONP Hongyan Mou, Huaiyu Zhan, Shiyu Fu, Yao Zhan</p>	<p>P94 Study on Collagen Fiber in Papermaking Quanpeng Li, Chuanshan Zhao, Wenjia Han</p>
<p>P79 Manufacture of Auto-sizing PAE Qingwei Ping, Yuanyuan Tian, Baofeng Huang, Liying Dong</p>	<p>P87 Encapsulation Modification of PCC Filler with Starch/Oleic acid Complex Using Alum as a Precipitation Agent and Its Application Jing Shen, Zhanqian Song, Xueren Qian</p>	<p>P95 The Damage of Sheets in Recycling Processes and its Quantitative Expression Part 2: Quantitative Expression for the Damage Kaitang Hu, Zhiguo Zhang, Wei Shen, Loi Nguyen</p>
<p>P80 Synthesis and Properties of Silicone Modified Styrene-acrylic Emulsion Chuanshan Zhao, Jiantong Cui, Dongmei Yu, Kefu Chen</p>	<p>P88 Study on the High-temperature Adhesives for Refractory Insulation Paper Jinjiang Pang, Chuanshan Zhao, Yifei Jiang</p>	<p>P96 Studies on Synthesis of Oil-Resistant Sizing Agent Containing Fluoroacrylate in Ultrasonically Irradiated Emulsion Polymerization Hongxiang Zhu, Liang Mu, Xiaobi Jing, Shuangfei Wang</p>

P97 Study on Dynamic Interactions between Paper and Water by Ultrasonic Transmission Method

Yulong Wang, Yanxin Liu, Zhenlei Cao

P98 Investigation into the Surface Properties and Printability of Tissue Paper

Ying Li, Beihai He

Effluent Treatment and Waste Utilization

P99 Study on Flocculation Treatment of the Effluent of BCTMP of Poplar

Xuejing Qu, Yunfeng Cao, Huifang Xie

P100 Fungal Laccase as Catalyst for Polymerization of Lignin from Mill Effluent

Xiangbo Wu, Yimin Xie, Xiaojing Feng, Siyan Zhou

P101 Effect of Ultrasonic Pretreatment in the Fast Liquefaction of Bagasse

Xuezhong Wu, Fangeng Chen, Xuesong Zhou

P102 Spectral Study on Reaction Mechanism of Etherification of Rice Straw

Yu Huang, Linshan Wang, Ying Xing

P103 The Mechanism Studies on Sonophotocatalytic Oxidation of 4-Chlorophenol by Free Radical

Guoning Chen, Shuangfei Wang, Chaobing Deng, Bin Yang, Jin Zeng

P104 Enzymatic Control of Detrimental Substances in Process Waters from Newsprint Mills

Chunhui Zhang, Huaiyu Zhan, Shiyu Fu, Bingyun Li

P105 Kinetics of Rice Straw Enzymatic/Mild Acidolysis Lignin Pyrolysis

Rui Lou, Shubin Wu, Yang Tan, Qing Yang

P106 Enzyme-catalyzed Crosslinking of Lignin and Polysaccharides in Fiberboard

Lei Wang, Yimin Xie

P107 Adsorption Behavior of ED3A-type Cellulose Based Chelating Fiber toward Lead Ion

Jun Huang, Huamin Zhai

P108 Graft Copolymerization of Methyl Methacrylate with Fluff Pulp Using Fe²⁺-H₂O₂-Thiourea Oxide Redox System

Xilin Liang, Huamin Zhai, Jun Huang

P109 Hydrolytic Acidification-biological Contact Oxidation Process for Treating OCC Papermaking Effluent

Yan Wang, Jinqun Wan, Yongwen Ma

P110 Research on Microorganism Characteristic in Hydrolytic Acidification-Catalytic Oxidation Process Treatment of Wastewater from Papermaking with OCC as Raw Material

Yongwen Ma, Jinqun Wan, Yan Wang, Yu Chen

P111 Effect of Xylanase on Fiber Surface Morphology and Composites in Bio-CTMP Refining Process

Xiaochun Lei, Yu Zhao, Kecheng Li, Lu Lin

P112 Surface Properties and Structure of Bleached Wheat Straw Pulp Fibre from Microwave Radiation System

Dong Li, Qing Han, Yajuan Wang

P113 Chemical Modification of Kraft Pulp with Cationic Modifier under Microwave Irradiation

Gaili Xiao, Qing Han

P114 Evaluation and Application of Silicone Antifoam on Pulping Spent Liquor

Yao Xu, Yongcan Jin, Gary Wang, Henry Fan

P115 Study on Synthesis and Modification of Cationic Polyamide-amines

Jie-bin Tang, Chuan-shan Zhao, Wen-jia Han, Dong-mei Yu

P116 Characterization and Treatment of Effluent from Apmp Pulping of Poplar Chips Pre-Treated with White-Rot Fungi

Laibao Ding, Sun Yu, Yingqiao Shi, Guigan Fang, Ping Li, J-C Sigoillot

P117 Preparation of Superabsorbent Polymer from Softwood pulp by Grafting-Copolymerization

Wenjuan Wu, Zhenghua Pan, Jingping Peng

P118 The Water Pollution Status and the New Development of Treatment Technology of Papermaking Wastewater on Seven Major River Basins in China

Jinqun Wan, Yongwen Ma, Yan Wang

P119 Study on the Preparation of Activated Carbon Adsorbent Derived from Paper Mill Sludge by Chemical-Pyrolysis Process

Zhan-bo Hu, Jing-quan Wang, Quan-Ming Sun, Da-lei Zhang, De-yi Wu, Hai-nan Kong

P120 Oxidation of Calcium Lignosulfonate-Urea Mixture for Preparing Slow-Release Nitrogen Fertilizer
Yiqin Yang, Yongcan Jin, Zhongzheng Li

P121 Preparation of Lignin-based Chelate Fertilizer and its Stability
De-zhi He, Yongcan Jin, Lili Fan, Yongjiang Yang

Biotechnologies

P122 Simultaneous Saccharification Fermentation of L-lactic Acid with Rice Straw Waste Residue
Jie Lu, RuiFeng Yang, Yanning Sun

P123 Biochemimechanical Pulping of Bamboo Chips: Fungi Pretreatment Effect on Pulp Properties and Fiber Morphology
Jianhua Xiong, Shuangfei Wang, Kecheng Li

P124 Primary Study of Biodegradation of 4-Chlorophenol by Strain BW-1
Huifang Xie, Yaru Wang, Yongcan Jin

P125 Study on the Flocculation of Dissolved and Colloidal Substances in Secondary Fibre Suspension with Nano-titania/Anionic Polyacrylamide
Shunli Kou, Xiaoquan Chen, Huanbin Liu

P126 Using Geotrichum candidum to Ferment Ammonium Sulfite Waste Liquor of Kenaf to Produce Feed Yeast
Jing-hui Zhou, Zi-juan Ding, Hai-qiang Shi, Yun-jie Sun

P127 Enzymatic Hydrolysis of Wheat Straw with Acetic Acid Catalyzed Steam Explosion Pretreatment
Lanfeng Hui, Zhong Liu, Yuanyuan Ma, Peng Luo

P128 Using Ammonia Pretreatment to Enhance Enzymatic Hydrolysis of Rice Straw Waste Residue
RuiFeng Yang, Lingxi Pu, Yanning Sun, Jie Lu

Equipment and Process Control on Pulping and Papermaking

P129 A Study of Hydro-Mechanical in Disk Refiners with Low Concentration
Jiapeng Chu, J-C Roux

P130 CFD Analysis on Multi-nozzle Steam Ejector Used in the Dryer Section of Paper Machine
Jixian Dong, Rui Dang

P131 Characteristics of Eddy Current Sensor Used in Displacement Measurement of the Rotating Tooth-Disc
Hui Zhang, Zhongzheng Li, Wen Fan

P132 Study on A New Method of On-line and Precise Measurement of Disc Refiner's Refining Gap
Hui Zhang, Zhongzheng Li

P133 Refiner Plate with Steam Relief Pockets
Ji-xian Dong, Yan-fang Zhi

P134 Application of Expert Control System Used in the Electromagnetic Drying Process
Zhengshun Wang, Jingdan Sun, Kefu Chen, Chuanshan Zhao