


Scientific Program of IA WPS2008

September 27-29, 2008
Harbin, China

Plenary Session

September 27

9: 00 – 10:00	Opening and Group Photo		
10:00 – 10:10	 10 minutes		
Keynote			
10:10 - 10:45	Development of High-performance Fiber Composites	<u>Shuichi Kawai</u> , Kenji Umemura and Sasa Sofyan Munawar	Japan
10:45 – 11:20	Wood – The Building Block of Bio-economy	<u>Hervé Deschênes</u>	Canada
11:20 – 11:55	Latest Development of Bamboo Utilization Technology in China	<u>Qisheng Zhang</u>	China

Parallel Session

Session 1: Cell structure and formation

September 27

01-01	13:30	A Database of the Microscopic Features of Chinese Woods and its Application	<u>Takao Itoh</u> , Dagang Li, Biao Pan, J. Luo, Yongzhi Cui and M. Mertz	Japan
01-02	13:55	A Case Study of Microfibril Angle in Bamboo(<i>Guadua amplexifolia</i>) by X-ray Diffraction	<u>Jinmei Xu</u> , Rongjun Zhao, Robert Evans, Benhua Fei	China
01-03	14:20	Estimation of Microfibril Angle by Near Infrared Spectroscopy	<u>Rongjun Zhao</u> , Benhua Fei, Li Zhang and Xiaomei Huo	China
01-04	14:45	Growth Increment and Growth Stress induced by Artificial Inclination in <i>Pinus taeda</i> L.	<u>Yamei Liu</u> and Shengquan Liu	China
01-05	15:10	Modelling Variation Pattern in MFA of Chinese Pine and Its Relationship to Wood Anatomical Features, Physical and Mechanical Properties	<u>Youming Xu</u>	China
	15:35	 15 minutes		
01-06	15:50	Practice of Wood Identification of Southeast-Asian Timbers for Pallets	<u>Tomoyuki Fujii</u> , Hisashi Abe and Ken Ogata	Japan


01-07	16:15	Variation of the Size of Vascular Bundle and Vessel Morphology and Their Correlation with the Physical - Mechanical Properties of <i>Phyllostachys pubescens</i>	<u>Yiqiang Wu</u> , Yuan Liu, Yunchu Hu, Xianjun Li, Wanxi Peng, Yan Qing and Ye Song	China
01-08	16:40	Investigations on Some of the Physical and Biometrical Properties of Planted <i>Paulownia</i> in North of Iran	<u>H. Khademi-Eslam</u>	Iran
01-09	17:05	Wood Anatomy Research In Nepal	<u>Joshi Lajmina</u>	Nepal

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01-10	08:30	Study on Anatomical and Physical Mechanical Properties of Kenaf Core	<u>Yujing Nie</u> , Lingfei Ma, Haitong Song and Yanjuan Zhang	China
01-11	08:55	Measuring Voids in Low-density Fiberboard	<u>Lun A and Yan Ma</u>	China
01-12	09:20	Micro-structure and Chemical Properties of Aerogel Structure Type of Wood	<u>Xianglin Zhai</u> , Chengyu Wang and Jian Li	China
01-13	09:45	A Method for Prediction the Tree Age and Maximum Crystallinity in Acacia Mangium Wood from Sabah using X-Ray Diffraction Method	Tamer A. Tabet and Fauziah Aziz	Malaysia

Session 2: Wood physics and modern processing technology

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02-01	13:30	Integrated Research and Collaboration on Forest-Wood Value Chain	<u>Tony Zhang</u>	Canada
02-02	13:55	Application of Ultrasonic Testing for Detecting Defects on Wooden Rafters in Ancient Building	<u>S.J. Lee</u> , H. Yeo, K.B. Kim and J.J. Lee	Korea
02-03	14:20	Crystallinity Change of Compressed Poplar Wood by PF Resin	Junliang Liu, <u>Guoqi Xu</u> , Bailing Sun and Yubo Chai	China
02-04	14:45	Effect of Compression on the Hydroscopicity of Chinese Fir Heartwood after Extraction	<u>Zheng Xin</u> , Jinzhen Cao and Mao Jia	China
02-05	15:10	Interrelation of Acoustic Parameters for Longitudinal and Radial <i>Picea Genera</i> Wood	<u>Jun Shen</u> and Yixing Liu	China
	15:35	 15 minutes		
02-06	15:50	Isothermal Water Vapor Adsorption Process in Kiln Dried Red Oak	<u>Minghui Zhang</u> , Rado Gazo and Daniel Cassens	China
02-07	16:15	Lumber Bending Properties and MSR Yield of Black Spruce in Relation to Growth, Wood Characteristics, Visual grades and Drying Treatments	<u>Youming Xu</u> , Tony (Shu-Ying) Zhang and Gilles Chauret	China
02-08	16:40	Measuring Deformation of Wood During Drying Using an Optical Method	<u>Ho-yang Kang</u> , Lech Muszynski and Michael R. Milota	Korea
02-09	17:05	Mechanical Properties of Tension Wood Teak	<u>M. Doungpet</u>	Thailand

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O2-10	08:30	Nonlinear Creep Behavior of Spruce Wood at the Temperature of 180°C	<u>R. Lagana</u> and M. Babiak	Slovakia
O2-11	08:55	Relationship between Acoustic Velocity and Distortion with Kiln-Drying for Douglas-fir Timber	<u>Taian Chen</u> , Shusheng Pang, Eric Wang and Andrew Karalus	New Zealand
O2-12	09:20	Study on the Distribution Pattern of Growth Stress of Masson Pine (<i>Pinus massoniana</i> Lamb.) with Different Trunk Shape	Shengquan Liu, <u>Liang Zhou</u> , Zuoping Shao and Shuhua Ke	China
O2-13	09:45	Study on the Wettability of Poplar Wood Impregnated by Phenol-formaldehyde Resin	<u>Yubo Chai</u> , Junliang Liu and Huanrong Liu	China
	10:10	 10 minutes		
O2-14	10:20	Temperature Effect on Linear Viscoelastic Response Region of Wood	<u>Jiali Jiang</u> and Jianxiong Lu	China
O2-15	10:45	The Current Status and the Trend of Bamboo Processing Machinery in China	<u>Wansi Fu</u> and Jianbo Zhou	China
O2-16	11:10	The Potential of Chainsaw Frame Mills in On-farm Timber Processing in Kenya	<u>Muthike GM</u> , Shitanda D and Muisu FN	Kenya
O2-17	11:35	The Woodworking Saws of Zero Degree Side Clearance Angle of set and Low Cutting Power	<u>Qingwu Meng</u> , Chuanxin Li, Honggang Zhao, Hongshuang Du and Hongdi Wang	China

O2-18	13:30	Thermography Analysis for Detecting Defects in Lumber	<u>C.D. Eom</u> , J.H. Park, K.B. Kim, J.J. Lee and H.M. Yeo	Korea
O2-19	13:55	Non-destructive Assessments of Various Lumber Properties by Near Infrared Spectroscopy	<u>T. Fujimoto</u> , Y. Kurata, K. Matsumoto and S. Tsuchikawa	Japan
O2-20	14:20	Heat and UV Treatment for Controlling of Discoloration in Cedar Wood (<i>Cryptomeria japonica</i>)	<u>K.J. Yoon</u> , C.D. Eom, J.H. Park, Y.W. Lee, I.G. Choi, J.J. Lee and H.M. Yeo	Korea
O2-21	14:45	Investigation of High Temperature Drying of Sub-alpine Fir Dimension Lumber	<u>Liping Cai</u> and Luiz C Oliveira	Canada
O2-22	15:10	Longitudinal Gas Permeability of Normally-Growing and Slow-Growing Black Spruce Wood	Youke Zhao, Cloutier A. and S.Y. Zhang	China


Session 3: Engineered wood materials and timber construction

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O3-01	13:30	Advances in Process Modeling of Wood Composites	<u>Chunping Dai</u> and Changming Yu	Canada
O3-02	13:55	Approach of the Designing Calculation of Static Bending Performance of Wooden I-Joist	<u>Chunlei Dong</u> , Shunzhong Yao and Hongjian Zhang	China
O3-03	14:20	Development of High Ductile Column Base Joint for Bending using Lagscrewbolts	<u>T. Mori</u> , M. Nakatani and K. Komatsu	Japan
O3-04	14:45	Edgewise Buckling of the Web of Prefabricated Wooden I-Joists under Perpendicular Loading	<u>Fuxing Yuan</u> , Shunzhong Yao, Jingyue Xiao and Hongjian Zhang	China

03-05	15:10	Effect of Length on the Tension Strength between Mechanically High-grade and Low-grade Chinese Fir Lumber	<u>Haibin Zhou</u> , Haiqing Ren, Jianxiong Lu, Jinghui Jiang and Xiuqin Luo	China
	15:35	 15 minutes		
03-06	15:50	Evaluation for Column-Sill Joint using Compressed Wooden Fastener	<u>Kiho Jung</u> , Akihisa Kitamori and Kohei Komatsu	Japan
03-07	16:15	Heat Durability of Phenol Resorcinol Formaldehyde Resin and Its Contribution to the Volatile Organic Compound (VOC) Emissions for the Bonded Wood Products at Elevated Temperatures	<u>Sheldon O. Shi</u> and Yucheng Peng	USA
03-08	16:40	Mechanical Behaviour of Laterally Loaded Nailed Timber Joints under Displacement-controlled Cyclic Loading	Meng Gong, <u>Ling Li</u> , Ian Smith and Dagang Li	Canada
03-09	17:05	Mechanically Grading of Lumber of Chinese Fir	<u>Zhaohui Wang</u> , Haiqing Ren, Xiuqin Luo, Haibin Zhou and Wei Guo	China


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03-10	08:30	Modeling Approach in Simulating Structural Behavior of the Pinned Mortise-and-Tenon Joint under Static Loading	<u>Ping Yang</u> , M. Goto and Yoshiyuki Suzuki	Japan
03-11	08:55	Optimal Thickness Ratio of Laminated Wood Products Made of Densified Balsam Fir	<u>Ling Li</u> , Meng Gong, Kecheng Li and Dagang Li	China
03-12	09:20	Property Improvement of Eastern White Pine Wood by Lateral Mechanical Densification	Yuchao Wang, Meng Gong, Y.H. Chui and <u>Ling Li</u>	China
03-13	09:45	Utilization of Timber from Fast-Growing Lesser-Known Species in Sarawak, Malaysia	<u>Andrew Nvorik Nibu</u>	Malaysia
	10:10	 10 minutes		
03-14	10:20	The Evaluation on Mechanical Properties of Compressed Wood in accordance with the Compression Rate	<u>A. Kitamori</u> , K. Jung, T. Mori and K. Komatsu	Japan
03-15	10:45	Quantitative Evaluation of Tactile Warmth of Wood by Heat Flux	<u>Y. Obata</u>	Japan
03-16	11:10	Timber Guardrail for Use on Roadway Bridges	<u>Rihong Zhang</u> , Takao Nakazawa, Kazuo Kanemaru and Yutaka Iimura	Japan
03-17	11:35	Determination of Thermal Conductivity of <i>Piptadeniastrum Africanum</i>	<u>R. Bakiika</u> , E.J.K.B. Banda and J.R.S. Kaboggoza	Uganda

Session 4: Chemicals and energy conversion from biomass


September 27

04-01	13:30	Activated Carbon Prepared from Extracted Sawdust Waste with KOH Activation	<u>Shouxin Liu</u>	China
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04-02	13:55	Study on the Extraction of Chlorophyll from Bamboo Leaves and its Stability	Guo'en Yang , Zhiping Wu, Guiwu Wang and Congjin Chen	China
04-03	14:20	Co-liquefaction of Coal and Shell Biomass without Catalysis	Zhifeng Zheng , Jing Pan, Yuanbo Huang, Jianchun Jiang, Weidi Dai	China
04-04	14:45	High Electro-conductivity of Wood Char Obtained by Iron-catalyzed Carbonization	Tsutomu Suzuki , Hiroshi Matsuzaki, Kyoko Suzuki and Yukie Saito	Japan
04-05	15:10	The Influence of Pretreatment Conditions and Extractives on the Induced Discoloration of <i>Betulacostata Trautv</i>	Xinshuang Yi , Jun Mu, Jianmin Gao, Yongming Fan and Mingyao Song	China
	15:35	 15 minutes		
04-06	15:50	The Structure of Lignin Charcoal	Gustan Pari , Kurnia Sofyan, Wasrin Syafii, Buchari, Hiroyuki Yamamoto, Masato Yoshida, Mitsuyoshi Yatagai	Indonesia
04-07	16:15	Gasification of Cedar Wood, Bark and Other Components in an Entrained Gasifier: Effect of Lignin Components on Gasification	T. Ogi , M. Nakanishi and Y. Fukuda	Japan
04-08	16:40	The Evaluation of Organosolv Pretreatment on Various Catalysts	Bon-wook Koo , Ho-yong Kim, Nahyun Park, Hwanmyeong Yeo, Soo-min Lee, Hoon Kim, In-gyu Choi	Korea
04-09	17:05	Scenario of Technical Innovation for Production of Ethanol as Automobile Fuel from Cellulosic Biomass in Japan	Masahiro Samejima	Japan
04-10	17:30	Behavior of Lignin Macromolecules during Novel Saccharification Process of Lignocellulosics by Supercritical Water System	Byung-chul Min, Soomin Lee, Don-ha Choi, In-gyu Choi and Joon-weon Choi	Korea

Session 5: Wood chemistry, pulping and paper making

September 27

05-01	13:30	Analysis of Wood Vinegar from Three Wood Species of Mangrove Forest	Lusita Wardani , Erry Purnomo, Sugihartono, Sukma Ekawati, Y.S. Hadi	Indonesia
05-02	13:55	Antifungal and Antitermitic Activities of <i>Eucalyptus Camaldulensis</i> Leaf Oils from Thailand	P. Siramon , Y. Ohtani and H. Ichiura	Japan
05-03	14:20	Biobleaching of Acacia Kraft Pulp with Extracellular Enzymes Secreted by <i>Lentinus</i> sp. LP-7	Afrida , Toshihiro Watanabe, Mitsuru Osaki and Yutaka Tamai	Japan
05-04	14:45	Heat- and Light-Induced Aging Characteristics of ECF Bleached Kraft Pulps	Takavuki Okayama , Daisuke Kobayashi and Hailan Jin	Japan
05-05	15:10	Change of Lignin Structure during MWL Isolation Process	Aya Fujimoto, Zhiguo Wang, Tomoya Yokoyama, Yuji Matsumoto, Gvosuke Meshitsuka , Houmin Chang	Japan
	15:35	 15 minutes		


05-06	15:50	Discriminating the Indistinguishable Sapwood from Heartwood in Discolored Ancient Wood by Direct Molecular Mapping of Specific Extractives using TOF-SIMS	Kaori Saito, Takumi Mitsutani, Takanori Imai, Yasuyuki Matsushita and <u>Kazuhiko Fukushima</u>	Japan
05-07	16:15	New-concept Ink-jet Paper Compatible with Off-Set Printing as a Biomass-Composite Material	<u>T. Enomae</u> , S. Aoshima, K. Matsubara, A. Isogai and M. Tajika	Japan
05-08	16:40	Oxidation of Lignin during Oxygen-alkali Treatment	Aiko Imai, Guolin Tong, Tomoya Yokoyama, <u>Yuji Matsumoto</u> and Gyosuke Meshitsuka	Japan
05-09	17:05	Stereochemistry on the Formation of Syringylglycerol-8-O-4'- (Sinapyl Alcohol) Ether from Sinapyl Alcohol with Enzyme Preparations of <i>Eucommia ulmoides</i>	Md. Shameul Alam, Takeshi Katayama and Toshisada Suzuki	Japan

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05-10	08:30	Spectrum Analysis of Dioxane Extractives from <i>Robinia pseudacacia</i> on Thermal Induced Discoloration	<u>Yongming Fan</u> , Yao Chen and Jianmin Gao	China
05-11	08:55	Synthesis and Characterization of Imidazoline Type Rosin Derivative	Shuangyue Li and <u>Shujun Li</u>	China
05-12	09:20	Chemical Constituents from Akar Kuning and their Antioxidant and Antifungal Activities	Toshisada Suzuki, Mami Maeda, Shota Fujii, Takeshi Katayama and Wasrin Syafii	Japan
05-13	09:45	Chemical Constituents from <i>Gmelina arborea</i> Bark and their Antioxidant Activity	Syamsul Falah, Takeshi Katayama and Toshisada Suzuki	Japan


Session 6: Biodegradation and preservation of wood

September 27

06-01	13:30	Changes with Time in Strength Distribution of Wood at Decay Process	<u>Kei Maeda</u> and Masamitsu Ohta	Japan
06-02	13:55	Cure Kinetics of Powdered Phenol-Formaldehyde Resins with Wood Preservatives: Ammonium Pentaborate	<u>Wei Gao</u> , Jinzhen Cao and Jianzhang Li	China
06-03	14:20	Decay Resistance of the Wood- SiO ₂ Aerogel Composite	<u>Jian Qiu</u> and Monlin Kuo	China
06-04	14:45	Effects of Hot Water Post Treatment on Accelerating Copper Fixation in ACQ-D Treated Chinese Fir	<u>Lili Yu</u> , Jinzhen Cao, Paul A. Cooper and Zhenzhong Tang	China
06-05	15:10	Field Evaluation of Insecticides for Timber Protection against Subterranean Termites in India	<u>O.K. Remadevi</u> , Raja Muthukrishnan, R. Sundararaj, Shalini P. Rao	India
	15:35	 15 minutes		
06-06	15:50	Isolation and Identification of Fungi from Creosote-treated Crossties and Their Sensitivity to PAHs	Min-ji Kim, Jae-jin Kim, <u>Yong-seok Choi</u> , Young Woon Lim, Se Min Oh, Dong-hwan Kim, Gyu-hyeok Kim	Korea


O6-07	16:15	Properties of Wood Modified with Glutaraldehyde	Zefang Xiao, <u>Yanjun Xie</u> , Carsten Mai and Holger Militz	Germany
O6-08	16:40	Research on Improving the Leaching Resistance of Boron Based Wood Preservatives by Using Three Proteins	<u>Liping Yu</u> and Jinzhen Cao	China
O6-09	17:05	Study of Thermal Perturbation of Bamboo Degraded by Two Dimensional Infrared Correlation Spectroscopy	<u>Anmin Huang</u> , Ming Xu, Benhua Fei, Haiqing Ren and Zehui Jiang	China

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O6-10	08:30	Study on Compressed Preservative-treated Wood (CPW) Produced by Mixed Sapwood and Heartwood of Chinese Fir	<u>Jia Mao</u> , Jinzhen Cao and Xin Zheng	China
O6-11	08:55	Wood Vinegar as an Alternative for Wood Preservative	<u>Y.S. Hadi</u> , T. Nurhayati, Jasni, H. Yamamoto and N. Kamiya	Indonesia
O6-12	09:20	Formation of ZnO Nanorods for improving Color Stability of Wood	<u>Yan Yu</u> , Ye Song and Ge Wang	China
O6-13	09:45	Biodegradation of Polychlorinated Biphenyls (Pcbs) by the White-rot Fungi	<u>Ki-seob Gwak</u> , Ho-yong Kim, Ha-young Kang, Eui-bae Jeung and In-gyu Choi	Korea
	10:10	 10 minutes		
O6-14	10:20	Juglone from Juglans Mandshurica Bark and its Resistance to Wood Decay Fungi	Dongmei Yang, Shuangyue Li, <u>Shujun Li</u> , Wenqiang Su, Molong Sun	China
O6-15	10:45	Treatment of Green Logs infested by Exotic Pest: Case Study of the Emerald Ash Borer: <i>Agrilus planipennis</i> Fairmaire	Pascal Nzokou, Sam Tourtellot and D. Pascal Kamdem	USA


Session 7: Wood-based materials and application, and adhesives

September 27

O7-01	13:30	Wood-based composites as a driving force of forestry industry	<u>Shigehiko Suzuki</u> ,	Japan
		Invited		
O7-02	13:55	Adhesion Property Research of High Moisture Dyeing Veneer and Fixation Veneer	<u>Shuangying Wei</u> , Di Wang, Chengsheng Gui, Xiaoqin Wang, Jiyou Gu	China
O7-03	14:20	Cone Calorimeter Analysis on the Fire-resistant Properties of FRW Fire-retardant Particleboard	<u>Yingtao Liu</u> , Jun Cao and Jian Li	China
O7-04	14:45	Development of Composite Board Made of Wood Waste and Bamboo Mat (V): Optimization of Resin Distribution and Solid Content	<u>Muh. Yusram Massijava</u> , Yusuf Sudo Hadi and Gilar Sukma Priana	Indonesia
O7-05	15:10	Development of Soybean-Based Wood Adhesives in North America	<u>Guangbo He</u> , Martin Feng and Chunping Dai	Canada
	15:35	 15 minutes		
O7-06	15:50	Dielectric Properties of Wood Flour/Polypropylene Composite at Oven-dry State	<u>Lei Wang</u> , Jinzhen Cao and Yi Wang	China

07-07	16:15	Effect of UV Irradiation on the Color and Chemical Structure of PMDI Cured with Water	<u>K. Umemura</u> , H. Yamauchi, T. Ito, M. Shibata and S. Kawai	Japan
07-08	16:40	Effects of Carbonization Temperature on Electromagnetic Wave Shielding and Combustion in Carbonized Board Manufacturing	<u>Sang-bum Park</u> , Sang-min Lee, Jong-young Park, Hee-young Lee, Ju-saeng Park and Kwang-hyun Lim	Korea
07-09	17:05	Strength of Acacia Wood with Polyurethane Adhesive	<u>I. Sulistvawati</u> , N. Nugroho, S. Surjokusumo and Y.S. Hadi	Indonesia

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07-10	08:30	Study on Poplar Laminated Composite Floor	<u>Ruixiang Cheng</u>	China
07-11	08:55	The Quality of Low Formaldehyde Emission Particleboard Made from Kenaf-Core Waste	Desi Natalia Koroh, Muh. Yusram Massijaya and <u>Dede Hermawan</u>	Indonesia
07-12	09:20	A Natural Adhesive from Agricultural By-Product—Study on Rice Bran Adhesive	<u>Weihong Wang</u> , Fei Li and Chao Qi	China
07-13	09:45	Inventory Analysis of Hardboard Produced in Japan	<u>Nobuaki Hattori</u> , Hiroki Tsujimoto, Satoshi Terashima and Ryoichi Wakuta	Japan
	10:10	 10 minutes		
07-14	10:20	Investigation of Volatile Organic Compounds Emission from Particleboards	<u>Yu Liu</u> , Jun Shen and Xiaodong Zhu	China
07-15	10:45	China: The Turning Point of its Furniture Industry	<u>Lim Cheok Sin</u>	Singapore
07-16	11:10	Utilization of Wood Based Waste Materials from Plywood Production for Particleboard Manufacturing	<u>Cenk Demirkır</u> , Mustafa Aslan and Gürsel Çolakoğlu	Turkey
07-17	11:35	Dynamic Measurement of Modulus of Elasticity of Commercial Wood-based Composites using Cantilever Beams	Zheng Wang and <u>Meng Gong</u>	China

07-18	13:30	Influence of Nano Clay on Phenolic Resin for Wood Adhesive	<u>Guanben Du</u> , Hong Lei, A.Pizzi, A.Celzard and Qun Fang	China
07-19	13:55	Online Wood Research Database as an Expert System	László Szalai and János Boros	Hungary

Session 8: New bio-based materials and development

September 27

08-01	13:30	Effect of Formulation and Testing Variables on Thermo-gravimetric Properties of Natural Fiber High Density Polyethylene Composites	<u>M. Tajvidi</u> and A. Takemura	Japan
08-02	13:55	The Mechanical Properties of Bamboo Fibers Determined by Microtension Technique	<u>Ge Wang</u> , Yan Yu, Shuangping Cao and Haitao Cheng	China

08-03	14:20	Effect of Natural Weathering on the Surface Abrasion Resistance of Wood-Plastic Composites (PE/Rice Hull)	<u>Qiaovun Deng</u> , Dagang Li, Zhengyuan Wu, Jiansheng Ding, Si-qin	China
08-04	14:45	Effect of Alkali Treatment on the Wetting Behavior and Surface Characteristics of Natural Fibres for Wood Composite Reinforcements	<u>F. Chana</u> , O. Webberb, J. Dengc, R. Knudsond, Y. H. Chuia and B. Riedl	Canada
08-05	15:10	Fracture Damage Behavior of Wood Plastic Composites Materials under the Mutual Action of Fatigue and Creep	<u>Dagang Li</u> , Yanqing Hu, Zhengyuan Wu and Jiansheng Ding	China
	15:35	 15 minutes		
08-06	15:50	Optimization of Face Liquid PF Resin Distribution in OSB Manufacturing Through a Spinning Disc Atomizer Blender	<u>Xiangming Wang</u> , Clevan Lamason, Felisa Chan and Yinghei Chui	Canada
08-07	16:15	Furniture Made of ‘Ancient Boat Wood’ – Culture and Science inside Wood	Jiechu Zhao, Meng Gong, <u>Ling Li</u>	China
08-08	16:40	Chemical Modification and Thermal Properties Kenaf Fiber/PLA Bio-Composites	<u>Byoung-ho Lee</u> , Hee-soo Kim and Hyun-joong Kim	Korea
08-09	17:05	Property Changes of Pigmented Wood-Fiber-HDPE Composites after Accelerated UV Weathering	<u>Zhengming Zhang</u> , Hua Du, Weihong Wang and Qingwen Wang	China
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08-10	08:30	Technical Study of Wheat Straw-Cement Composite	<u>Jingquan Han</u> , Xianquan Zhang, Yixing Liu and Haipeng Yu	China
08-11	08:55	Properties of Thermally Modified Wheat Straw through Pressurized Steam Treatment	<u>Yiving Yue</u> , Baiping Liu, Wanli Cheng and Guangping Han	China
08-12	09:20	Preliminary Study of Moulded Laminated Veneer Oil Palm (MLVOP)	Abdul Hamid S., H.P.S. Abdul Khalil1, A. Khairul and <u>M.S. Shakri</u>	Malaysia
08-13	09:45	Performance of Layered Wood Flour/ PVC Composites in Extreme Freeze-Thaw Conditions	<u>Shayesteh Haghdan</u> and Mehdi Tajvidi	Iran
	10:10	 10 minutes		
08-14	10:20	The Synergistic Fire Retardant Effects of Expandable Graphite with Ammonium Polyphosphate on Wood Flour Polypropylene Composites	<u>Yongming Song</u> , Qingwen Wang, Haigang Wang, L. Gong, Z.J. Zhang	China
08-15	10:45	Effect of Coupling Treatment and Nanoclay on the Properties of Bamboo Flour-Filled High Density Polyethylene Composites	<u>Guangping Han</u> , Qinlin Wu, Y. Kojima, S. Suzuki, J. Deng and S.Y. Zhang	China
08-16	11:10	Pre-treatment Effect on Wood Cement Particleboard Manufactured with Wood Species Growing in Turkey	<u>Mustafa Aslan</u> , Cenk Demirkir and Hülya Kalaycıoğlu	Turkey

Poster Session

September 28 16:00 – 17:00

Session 1: Cell structure and formation

P1-01	Cellulose Fibril Reinforced Poly(Vinyl Alcohol) Nanocomposites	Qingzheng Cheng, Siqun Wang, Timthy G. Rials, Jingxin Wang, Yingtao Liu	USA
P1-02	Deformation Induced by Ethanol Substitution in Normal and Tension Wood of Chestnut and Simarouba	Shanshan Chang, Bruno Clair, Joseph Gril, Guangjie Zhao and Hiroyuki Yamamoto	France
P1-03	Diurnal Differences in Secondary Cell Wall Formation of Conifer Tracheids Corresponding to Changes in Light Strength	Yoshihiro Hosoo, Takanori Imai, Masato Yoshida	Japan
P1-04	Relationship of Alkaline Extractive Content with Growth Traits, Basic Density and Tissue Proportions in Plantation-grown <i>Eucalyptus urophylla</i>	Yiqiang Wu , Jianju Luo, Yuan Liu , Qing Yan, Ye Song	China
P1-05	Variability of Some Wood Quality Indicators of <i>Pinus caribaea</i> Morelet In Philippine Plantations	Arsenio B. Ella	The Philippines
P1-06	Research on the Effects of Fertilization on Moso Bamboo Quality	Xiaomin Guo, Qing Yin, Dekui Niu, Guoshi Zhang, Fang Chen, Zhijian Luo	China

Session 2: Wood physics and modern processing technology

P2-01	A Development of an Evaluation System for Finger-jointed Laminae with Starved Joints by Acoustic Emission	Eri Sato, Takeshi Ohuchi	Japan
P2-02	A Statistical Algorithm for Detection of Damage in Timbers using Mode Shapes of Vibration	Chuanshuang Hu, Junshi Zhao, Yixian Xin, Hongxia Liao, Hong Yun	China
P2-03	A Study on the MOE of Chinese Fir Structural Glulam Lumbers	Lingfei Ma, Yanjuan Zhang, YouMing Yu, Jun Qian, Shenyuan Fu and Yongming Jin	China
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