

BEPS 2011 Program at a Glance + parallel sessions

Tuesday 27th September 2011

17:00 - 22:00 Welcome mixer (17:00-22:00) + Registration (17:00-20:00)

Wednesday 28th September 2011

8:00 Registration

8:45 **Conference opening + welcome address**
Alexander Van der Bellen, Austria

9:30 ● **Plenary 1: Andreas Künkel**, BASF, Germany

10:10 ● **Plenary 2: Alain Dufresne**, Grenoble, France

10:50 Break

11:10 ●	Nanocomposites 1	Films & Packaging	Biomedical applications
11:40 - 13:00			

13:00 Lunch

14:00 ●	Nanocomposites 2	Lignin derived materials	Life Cycle Analysis
14:30 - 15:50			

15:50 Break

16:10 ●	Nanocomposites 3	Polymer fibres	Biorefinery & Products
16:40 - 18:00			

18:00 BEPS General Assembly + Awards Ceremony

19:00 - 23:00 **Brewery tour & conference dinner**

KEY

- Plenary talk
- Keynote / Invited / Extended Talk

Room A

Room B

Room C

Thursday 29th September 2011

8:40 ● **Plenary 3: Emo Chiellini**, Università Di Pisa, Italy

9:20 ● **Plenary 4: Oded Shosheyov**, HUJ, Israel

10:00 Break

10:20 ●	Nanocomposites 4	Biobased composites 1	Polymer blends
10:50 - 12:10			

12:10 Lunch

14:00 ●	Renewable nanomaterials 1	Biobased composites 2	Renewable polymers
14:30 - 15:50			

15:50 Break

16:10 ●	Renewable nanomaterials 2	Biobased composites 3	Biobased foams
16:40 - 18:20			

18:20 - 21:00 **Poster event - free bar**

Friday 30th September 2011

8:40 ● **Plenary 5: Richard P. Wool**, University of Delaware, USA

9:20 ● **Plenary 6: Yoshiharu Doi**, RIKEN, Japan

10:00 Break

10:20 ●x2	Biobased polymers 1	Biobased composites 4
11:20 - 12:20		

12:20 Lunch

14:00 ●x4	Biobased polymers 2
16:00 - 16:40	

16:40 **Closing remarks + Student awards ceremony + BEPS 2012 meeting**

17:00 End

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Wednesday 28th September 2011


8:00	Registration		
8:45 - 9:30	CONFERENCE OPENING + WELCOME ADDRESS: <u>Alexander Bismarck</u>, <u>Hannes Froehlich</u>, <u>Amar Mohanty</u>; <u>Alexander Van der Bellen</u> PLENARY 1: <u>Andreas Künkel</u>, BASF, Germany PERSPECTIVES FOR THE INDUSTRIAL USE OF BIODEGRADABLE AND BIOBASED POLYMERS PLENARY 2: <u>Alain Dufresne</u>, Grenoble, France STARCH-BASED NANOCOMPOSITES		
9:30 - 10:10			
10:10 - 10:50			
10:50 - 11:10	Break		
11:10 - 13:00	NANOCOMPOSITES 1 <i>Chairs: A. Dufresne, H. Yano</i>	FILMS & PACKAGING <i>Chairs: A. Mohanty, N. A. D'Souza</i>	BIOMEDICAL APPLICATIONS <i>Chairs: J. J. Blaker, D. Williams</i>
11:10 - 11:40	PROCESSING AND PROPERTIES OF NANOCELLULOSES EXTRACTED FROM DIFFERENT NATURAL RESOURCES AND THEIR USE IN COMPOSITES <u>K. Oksman</u> , <i>Luleå University of Technology, Composite Centre Sweden, Sweden</i>	OXO-BIODEGRADABLE POLYMERS FOR PACKAGING AND AGRICULTURE APPLICATIONS <u>A. Corti</u> , M. Sudhakar, E. Chiellini, <i>Università Di Pisa, Italy</i>	3D-FABRICATION OF BIODEGRADABLE POLY(VINYL ALCOHOL)-BASED PHOTOPOLYMERS FOR BIOMEDICAL APPLICATIONS <u>M. Schwentenwein</u> , C. Heller, F. Varga, G. Russmueller, J. Stampfl, R. Liska, <i>Vienna University of Technology, Austria</i>
11:40 - 12:00	COMPOSITES BASED ON BACTERIAL CELLULOSE (BC) – FIRST RESULTS ACCORDING TO TECHNICAL PROCESSES <u>K. Mueller</u> , A. Nechwatal, K. Schlufter, K. Frankenfeld, <i>Thuringisches Institut für Textil- und Kunststoff-Forschung e.V. (TITK), Germany</i>	BIODEGRADABLE POLYMERS FOR PACKAGING AND AGRICULTURE APPLICATIONS <u>S. Jain</u> , A. Ghosh, M. Misra, A. Mohanty, <i>Indian Institute of Technology Delhi, India</i>	EFFECT OF HYDROXYAPATITE CONTENT ON THE MECHANICAL, THERMAL PROPERTIES AND DEGRADATION MECHANISM OF PLA- HYDROXYAPATITE COMPOSITES <u>S. Kumar</u> , A. Hoglund, K. Odellius, A. Ghosh, N. Bhatnagar, A. Albertsson, <i>Indian Institute of Technology, India</i>
12:00 - 12:20	MULTIFUNCTIONAL NANO-BIODEGRADABLE COMPOSITES FROM BIOBASED RESIN SYSTEMS FOR STRUCTURAL APPLICATIONS <u>M. Misra</u> , H. Deka, X. G. Luo, A. Mohanty, <i>University of Guelph, Canada</i>	DEVELOPMENT OF A THERMOPLASTIC STARCH FOR CO-INJECTED THIN PACKAGES E. Benavent, B. Galindo, O. Menes, A. Pascual, <u>F. Marti</u> , <i>Instituto Tecnológico del Plástico, AIMPLAS, Spain</i>	MELT SPUN FIBRES OF POLY(LACTIC ACID) AND HYDROXYAPATITE NANOPARTICLES FOR USE AS TISSUE ENGINEERING SCAFFOLDS <u>S.-W. Cho</u> , M. Persson, M. Skrifvars, <i>University of Borås, Sweden</i>
12:20 - 12:40	HOW TO DESIGN THIN BIO-BASED FILMS WITH LIGNIN AND CELLULOSE NANOCRYSTALS? <u>V. Aguié-Béghina</u> , A. Hambardzumyan, L. Foulon, B. Chabbert, <i>INRA / University of Reims, France</i>	BIODEGRADABILITY AND BARRIER PROPERTIES OF ATOMIC LAYER- DEPOSITED BIOPOLYMERS FOR PACKAGING APPLICATIONS T. Hirvikorpi, M. Vähä-Nissi, J. Sievänen, <u>J. Hartman</u> , M. Vikman, A. Harlin, M. Karppinen, <i>VTT Technical Research Centre of Finland, Finland</i>	GALACTARIC ACID BASED MICROSPHERES <u>H. Wutzel</u> , M. Adelwöhrer, T. Verdianz, S. Knaus, <i>Vienna University of Technology, Austria</i>
12:40 - 13:00	HIGHLY STABLE SUPERCAPACITOR ELECTRODE MATERIALS BY TEMPLATING ELECTRICALLY CONDUCTING POLYMERS ON CELLULOSE NANOWHISKERS S. Y. Liew, D. A. Walsh, <u>W. Thielemans</u> , <i>University of Nottingham, UK</i>	ENHANCEMENT OF THE PROPERTIES OF SPRUCE GALACTOGLUCOMANNAN-BASED FILMS BY USING BLENDED POLYMERS, NANO-SIZED CELLULOSE, OR A CROSSLINKING AGENT <u>K. S. Mikkonen</u> , S. Willför, M. Tenkanen, <i>University of Helsinki, Finland</i>	L-CYSTEINE: A NEW STRATEGY TO DESIGN NON-TOXIC ANTIMICROBIAL TEXTILES I. Gouveia, <u>D. Sá</u> , E. Caldeira, <i>University of Beira Interior, Covilhã, Portugal</i>

Note: Affiliation of presenting Author (underlined) is given in this summary program




Wednesday 28th September 2011

13:00 - 14:00	Lunch		
14:00 - 15:50	NANOCOMPOSITES 2 <i>Chairs: K. Oksman, O. J. Rojas</i>	LIGNIN DERIVED MATERIALS <i>Chairs: K. Fackler, M. Misra</i>	LIFE CYCLE ANALYSIS <i>Chairs: E. Chiellini, K. Kirwan</i>
 14:00 - 14:30	NANOFIBRILLATED CELLULOSE FOR HYDROGEL, AEROGEL, AND MEMBRANE APPLICATIONS <i>T. Zimmermann, C. Eyholzera, T. T. Ho, C. Gebald, P. Tingauta, P. Bourbanc, Empa, Materials Science and Technology, Switzerland</i>	LIGNOSULFONATES – FROM WASTE MATERIAL TO ADVANCED SPECIALTY POLYMERS <i>M. Andresen, G. E. Fredheim, Borregaard LignoTech, Sarpsborg, Norway</i>	LIFE CYCLE ASSESSMENT (LCA) OF BIO-BASED PRODUCTS: A PERSPECTIVE <i>R. J. Murphy, Imperial College London and LCAworks Ltd, London, UK</i>
14:30 - 14:50	RECYCLING OF PLA/MMT NANOCOMPOSITES <i>M. Kozłowski, A. Iwanczuk, J. Macyszyn, K. Leluk, Wroclaw University of Technology, Poland</i>	WEALTH OUT OF WASTE – BIOPOLYMERS FROM LIGNIN DEGRADATION <i>S. R. Coles, M. Ahmad, A. E. C. Collis, A. J. Clark, K. Kirwan, WMG, University of Warwick, UK</i>	BIO-BASED POLYMERS AND END-OF-LIFE VEHICLES <i>J. Stagner, E. Tam, University of Windsor, Canada</i>
14:50 - 15:10	EFFECT OF NANOCELLULOSE PREPARATION ON REINFORCEMENT OF POLY(VINYL ALCOHOL) NANOCOMPOSITE FILMS <i>Y. Zhou, S. Fu, L. Zheng, H. Zhan, South China University of Technology, Guangzhou, Guangdong, China</i>	THE ENZYME REFINERY: FUNCTIONAL POLYMERS BASED ON LIGNOCELLULOSE MATERIAL <i>G. S. Nyanhongo, E. N. Prasetyo, T. Kudanga, G. M. Guebitz, Graz University of Technology / Austrian Centre of Industrial Biotechnology ACIB, Graz, Austria</i>	A HOLISTIC APPROACH TO DESIGN SUPPORT FOR BIOPOLYMER BASED PACKAGING <i>J. A. Colwill, E. I. Wright, S. Rahimifard, Loughborough University, UK</i>
15:10 - 15:30	NANOCOMPOUNDING AT SURFACES: PHOTOASSISTED IMMOBILIZATION OF NANOPARTICLES <i>W. Kern, N. Muhr, T. Griesser, Montanuniversität Leoben, Leoben, Austria</i>	LIGNIN-BASED ARTIFICIAL HUMIC SUBSTANCES: APPLICATION POTENTIAL AND UNRESOLVED ISSUES <i>G. Pour, K. Klinger, T. Rosenau, A. Potthast, F. Liebner, University of Natural Resources and Life Sciences Vienna, Austria</i>	IS THERE A GENERIC ENVIRONMENTAL ADVANTAGE FOR BIOPOLYMERS OVER PETROCHEMICAL POLYMERS? <i>M. Guo, R. J. Murphy, Imperial College of Science, Technology and Medicine, UK</i>
15:30 - 15:50	DESIGNING BIO-INSPIRED POLYMER ASSEMBLIES TO UNRAVEL LIGNOCELLULOSES PROPERTIES <i>B. Chabbert, G. Paës, V. Aguié-Béghin, INRA / University of Reims Champagne-Ardenne, France</i>	MECHANICAL BEHAVIOR OF LIGNIN/POLYMER COMPOSITES <i>S. Nakamura, T. Tanaka, Y. Arao, T. Umemura, Doshisha University, Kyoto, Japan</i>	END-OF-LIFE OF SILICONE ELASTOMERS AND THEIR CATALYSTS: ASSESSMENT OF CHEMICAL AND BIOLOGICAL DEGRADATION <i>B. Laubie, P. Germain, V. Desjardin, Institut National des Sciences Appliquées de Lyon, France</i>
15:50 - 16:10	Break		

Wednesday 28th September 2011

16:10 - 18:00	NANOCOMPOSITES 3 <i>Chairs: W. Gindl-Altmutter, T. Zimmermann</i>	POLYMER FIBRES <i>Chairs: R. T. Olsson, T. Wodke</i>	BIOREFINERY & PRODUCTS <i>Chairs: R. Murphy, H. Mori</i>
 16:10 - 16:40	UNDERSTANDING INTERFACES IN CELLULOSE NANOWHISKER-BASED NANOCOMPOSITES <i>S. J. Eichhorn, T. Pullawan, R. Rusli, S. J. Rowan, C. Weder, University of Manchester, UK</i>	A BROAD APPROACH TO IMPROVE THE SURFACE HYDROPHOBICITY OF WHEAT GLUTEN MATERIALS USING ELECTROSPINNING/SPRAYING, CROSSLINKING AND PLASMA TECHNIQUES <i>H. Chen, J. L. Hoffman, A. Swerin, M. S. Hedenqvist, M. Dubreuil, D. Vangeneugden, M. Gällstedt, K. S. Johansson, Royal Institute of Technology, Stockholm, Sweden</i>	BIOETHANOL FROM CELLULOSIC BIOMASS <i>D. Wang, Kansas State University, KS, USA</i>
16:40 - 17:00	ADVANCED CALORIMETRY OF POLYMERS AND POLYMER NANOCOMPOSITES <i>C. Schick, University of Rostock, Germany</i>	FORMATION OF Ag/CHITOSAN HYBRID NANOFIBERS VIA ELECTROSPINNING TECHNIQUE <i>V. Jacobs, A. Patanaik, R. D. Anandjiwala, CSIR Materials Science and Manufacturing, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa</i>	MODELLING, DESIGN AND OPTIMISATION OF A CONTINUOUS REACTOR FOR BIOMASS PRETREATMENT <i>M. P. Patel, S. A. Hosseini, N. Shah, CPSE, Imperial College, London, UK</i>
17:00 - 17:20	DESIGN OF HIGH-PERFORMANCE CARBON NANOTUBE/POLY(L-LACTIDE) (NANO)COMPOSITES MEDIATED THROUGH SUPRAMOLECULAR INTERACTIONS <i>E. Manfredi, P. Verge, J. Raquez, J. Thomassin, M. Alexandre, C. Jérôme, F. Meyer, P. Dubois, Center of Innovation and Research in Materials and Polymers (CIRMAP), University of Mons, Belgium</i>	MECHANICAL PROPERTIES OF ALIGNED AND CELLULOSE- REINFORCED ELECTROSPUN PMMA FIBERS <i>R. L. Andersson, R. T. Olsson, M. S. Hedenqvist, Royal Institute of Technology, Stockholm, Sweden.</i>	VALUE-ADDED INDUSTRIAL USES OF CO-PRODUCTS FROM BIOFUEL INDUSTRIES: A NEW PARADIGM TOWARDS SUSTAINABILITY <i>A. Mohanty, N. Zarrinbakhsh, S. Sahoo, S. Vivekanandhan, P. Gonugunta, M. Reddy, X. Zhou, M. Misra, University of Guelph, Canada</i>
17:20 - 17:40	BIOMIMETIC NANOCOMPOSITES FOR IMPROVING BARRIER PROPERTIES OF BIOPOLYMERS <i>L. F. Boesel, M. de Geus, L. Thöny-Meyer, Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland</i>	SPUN GLUTEN/STARCH: AN ALTERNATIVE CARBON FIBRE PRECURSOR? <i>P. Bharadia, J. J. Blaker, K. Li, A. Bismarck, Polymer and Composite Engineering (PaCE) Group, Imperial College London, UK</i>	MARKET ORIENTED INNOVATION MANAGEMENT IN WOOD BIOREFINERY RESEARCH <i>T. Stern, C. Ledl, P. Stary, P. Schwarzbauer, University of Natural, Resources and Life Sciences, Vienna, Austria</i>
17:40 - 18:00	NANOCOMPOSITES BASED ON POLYESTER-GRAFTED CELLULOSE NANOWHISKERS: TOWARD FULLY BIOBASED MATERIALS <i>Y. Habibi, A-L. Goffin, J-M. Raquez, A. Dufresne, P. Dubois, Center of Innovation and Research in Materials and Polymers (CIRMAP), University of Mons UMONS, Belgium</i>	A GREEN APPROACH FOR PRODUCING REGENERATED CELLULOSE FIBER AND FILM <i>J. Chen, L. Sun, W. Jiang, The University of Texas at Austin, TX, USA</i>	THERMOCHEMICAL BIOREFINERIES - R&D IN AUSTRIA <i>R. Rauch, H. Hofbauer, Bioenergy 2020+, Güssing, Austria</i>
18:00 - 19:00	BEPS GENERAL ASSEMBLY + BEPS AWARDS + MEMBERS DISCUSSION: WHERE BEPS IS HEADING + CALL FOR BOARD CANDIDATES		
19:00 - 23:00	Brewery tour & conference dinner - at Salm Bräu [Venue address: Rennweg 8, 1030 Wien, Austria]		


Thursday 29th September 2011

 8:40 - 9:20	PLENARY 3: <u>Emo Chiellini</u>, Università Di Pisa, Italy HYDRO-AND OXO-BIODEGRADABLE PLASTICS. IS PARTNERSHIP OR MARRIAGE POSSIBLE?		
 9:20 - 10:00	PLENARY 4: <u>Oded Shosheyov</u>, Hebrew University of Jerusalem, Israel BIOINSPIRED NANOCOMPOSITE MATERIALS FOR THE FUTURE		
10:00 - 10:20 Break			
10:20 - 12:10	NANOCOMPOSITES 4 <i>Chairs: S. J. Eichhorn, L. A. Berglund</i>	BIOBASED COMPOSITES 1 <i>Chairs: J. L. Thomason, H. Hamada</i>	POLYMER BLENDS <i>Chairs: M. S. Hedenqvist, X. S. Sun</i>
 10:20 - 10:50	ACCELERATION OF THE INJECTION MOLDING CYCLE OF SEMICRYSTALLINE PLA BY CELLULOSE NANOFIBER REINFORCEMENT <i>L. Suryanegara, H. Okumura, A. N. Nakagaito, <u>H. Yano</u>, RISH, Kyoto University, Japan</i>	MARKET ORIENTATED BIOPLASTICS DEVELOPMENT AT FRAUNHOFER UMSICHT <i>P. Borelbach, I. Bretz, M. Duhme, S. Kabasci, A. Kesselring, <u>T. Wodke</u>, S. Zepnik, Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Germany</i>	HYBRID BIOMATERIALS FROM MODIFIED NATURAL POLYMER AND SYNTHETIC BIODEGRADABLE POLYMER <i><u>J. H. Wang</u>, B. Shi, Kimberly-Clark Corporation, Neenah, WI, USA</i>
10:50 - 11:10	NANOCELLULOSE RESEARCH AT VTT <i><u>P. Qvintus</u>, M. Linder, H-P. Hentze, A. Harlin, T. Tammelin, VTT, Technical Research Centre of Finland, Finland</i>	MAKING COMMERCIAL PRODUCTS FROM BIO-BASED COMPOSITE MATERIALS: 10 YEARS OF EXPERIENCE, THE ISSUES AND FUTURE PERSPECTIVE <i><u>T. Gustafsson</u>, APC Composite AB, Luleå, Sweden</i>	PROPERTIES AND MORPHOLOGY OF POLY(AZELAIC ANHYDRIDE) COMPATIBILIZED STARCH/POLY(LACTIC ACID) BLENDS <i>K. Dean, <u>E. Petinakis</u>, L. Yu, Monash University, Melbourne, Victoria, Australia</i>
11:10 - 11:30	UREA-FORMALDEHYDE-BOUND PARTICLE BOARDS WITH CELLULOSE REINFORCEMENT <i><u>S. Veigel</u>, E. Lems, W. Gindl-Altmutter, University of Natural Resources and Life Sciences, Vienna, Austria</i>	EFFECT OF POLAR AND AMPHIPHILIC PLASTICIZERS ON QUILL KERATIN-BASED THERMOPLASTICS <i><u>A. Ullah</u>, J. Wu, University of Alberta, Edmonton, Canada</i>	IMPACT MODIFICATION OF POLY(LACTIC ACID) WITH POLYURETHANE ELASTOMERS <i><u>B. Imre</u>, D. Bedő, K. Renner, J. Móczó, B. Pukánszky, Budapest University of Technology and Economics / Hungarian Academy of Sciences, Budapest, Hungary</i>
11:30 - 11:50	BARRIER PROPERTIES OF BIOHYBRID STRUCTURES FROM SUGAR BEET PULP PECTIN AND NANOCCLAY <i><u>J. Pere</u>, T. Tammelin, J. Vartiainen, U. Tapper, A. Harlin, VTT, Technical Research Centre of Finland, Finland</i>	STRUCTURAL ANALYSIS OF A HYBRID NATURAL FIBER COMPOSITE MATERIAL PROCESSED THROUGH VACUUM ASSISTED RESIN TRANSFER MOLDING <i>S. Bavan, <u>M. Kumar</u>, National Institute of Technology Karnataka, Mangalore, India</i>	IMPROVEMENT OF PLA PROPERTIES WITH DIFFERENT ADDITIVES AND VERIFY THE POTENTIALITY <i><u>A. Al Mamun</u>, M. Feldmann, A. Jaszkievicz, H. Heim, University of Kassel, Germany</i>
11:50 - 12:10	NANO-FIBRILLATED CELLULOSE VS BACTERIAL CELLULOSE: REINFORCING ABILITY OF NANOCELLULOSE OBTAINED TOP-DOWN OR BOTTOM-UP <i>K.-Y. Lee, T. Tammelin, H. Kiiskinen, J. Samela, <u>A. Bismarck</u>, Polymer and Composite Engineering (PaCE) Group, Imperial College London, UK</i>	FILAMENT WINDING OF FLAX AND VISCOSE ROVINGS <i><u>P. Lehtiniemi</u>, K. Dufva, T. Berg, M. Skrifvars, P. Järvelä, Tampere University of Technology, Finland</i>	POLY(3-HYDROXYBUTYRATE-CO-3-HYDROXYVALERATE) AND POLY(BUTYLENE ADIPATE-CO-TEREPHTHALATE) BLENDS: THERMAL, MECHANICAL AND RHEOLOGICAL PROPERTIES <i>S. Vidhate, <u>N. A. D'Souza</u>, University of North Texas, TX, USA</i>

Thursday 29th September 2011

12:10 - 14:00


Lunch

14:00 - 15:50	RENEWABLE NANOMATERIALS 1 <i>Chairs: T. Tammelin, W. Thielemans</i>	BIOBASED COMPOSITES 2 <i>Chairs: C. Burgstaller, T. Peijs</i>	RENEWABLE POLYMERS <i>Chairs: Y. Doi, S. Agarwal</i>
 14:00 - 14:30	INTERFACIAL BEHAVIORS OF ULTRATHIN FILMS AND MATERIALS FROM CELLULOSE, LIGNIN AND THEIR DERIVATIVES <i>I. Hoeger, S. Peresin, L. Taajamaa, I. Filpponen, M. Österberg, J. Laine, O. J. Rojas, North Carolina State University, NC, USA / Aalto University, Espoo, Finland</i>	THE CHALLENGES OF NATURAL FIBRES AS AN ENGINEERING COMPOSITE REINFORCEMENT <i>J. L. Thomason, F. Gentles and J. Carruthers, University of Strathclyde, Glasgow, UK</i>	A RECYCLABLE AND BIODEGRADABLE POLYMER: POLY(p-DIOXANONE) <i>Y-Z. Wang, Sichuan University, Chengdu, China</i>
14:30 - 14:50	IMPROVING THE DRAWABILITY OF CELLULOSE NANOFIBRIL SHEETS BY TEMPO MODIFICATION <i>W. Gindl-Altmutter, S. Veigel, J. Keckes, University of Natural Resources and Life Sciences, Vienna, Austria</i>	A STUDY ON INJECTION MOLDED NATURAL FIBER AND GLASS FIBER HYBRID REINFORCED POLYPROPYLENE <i>P. Uawongsuwan, Y. Yang, M. Murakami, H. Hamada, Kyoto Institute of Technology, Japan</i>	BIOSYNTHESIS OF POLYHYDROXYALKANOATE BY NOVEL MARINE FACULTATIVE ANAEROBE <i>K. Numata, Y. Doi, RIKEN, Japan</i>
14:50 - 15:10	SEPARATION PROCESS AND CHARACTERISTICS OF CELLULOSE NANOFIBERS EXTRACTED FROM INDUSTRIAL BIORESIDUE <i>M. Jonoobi, A. P. Mathew, K. Oksman, Luleå University of Technology, Sweden</i>	INTERFACES IN NATURAL FIBRE COMPOSITES <i>A. W. van Vuure, C. Fuentes, N. Tran, I. Verpoest, Katholieke Universiteit Leuven, Belgium</i>	FROM THE BIOPOLYMER CHITIN TO A HIGHLY VALUABLE, PHARMACEUTICALLY RELEVANT FINE CHEMICAL: APPLYING AN INTEGRATED BIOPROCESS TECHNOLOGY APPROACH TO TRICHODERMA <i>A. R. Mach-Aigner, M. Steiger, R. L. Mach, Vienna University of Technology, Austria</i>
15:10 - 15:30	SIMULTANEOUS DEGRADATION AND CRYSTALLIZATION OF NATIVE CELLULOSE WITH GASEOUS HYDROGEN CHLORIDE <i>E. Kontturi, A. Meriluoto, P. Penttilä, A. Potthast, T. Rosenau, R. Serimaa, J. Laine, H. Sixta, Aalto University, Espoo, Finland</i>	MICROFRACTURE BEHAVIOUR OF ABACA FIBRE REINFORCED STARCH-BASED GREEN COMPOSITES <i>H. Takagi, Y. Hagiwara, A. N. Nakagaito, The University of Tokushima, Japan</i>	PRESENT STATUS OF BIOMASS COMMODITIES AND THE "BIOMASS MARK" REGISTRATION SYSTEM IN JAPAN <i>H. Mori, T. Kimura, T. Endo, K. Ohshima, T. Kato, Japan Society of Biomass Industries (JSBI), Tokyo, Japan</i>
15:30 - 15:50	DESIGNING NEW ANTIBACTERIAL TEXTILES BY LAYER BY LAYER ASSEMBLING OF BIOMOLECULES <i>A. P. Gomes, J. F. Mano, J. A. Queiroz, I. C. Gouveia, University of Beira Interior, Covilhã, Portugal</i>	BACTERIAL CELLULOSE AS THE BINDER FOR SISAL FIBRES TO PRODUCE GREEN BIO-BASED NANOCOMPOSITES WITH IMPROVED PROPERTIES <i>K-Y. Lee, K. C. C. Ho, K. Schlufte, J. M. Hodgkinson, A. Bismarck, Polymer and Composite Engineering (PaCE) group, Imperial College London, UK</i>	CONDUCTIVE CELLULOSE <i>I. Filpponen, X. Liu, J. Laine, O. J. Rojas, Aalto University, Espoo, Finland.</i>

15:50 - 16:10

Break

Thursday 29th September 2011

16:10 - 18:20	RENEWABLE NANOMATERIALS 2 <i>Chairs: P. Qvintus, K.-Y. Lee</i>	BIOBASED COMPOSITES 3 <i>Chairs: J. Müssig, B. Madsen</i>	BIOBASED FOAMS <i>Chairs: L. Chamudis, T. Gustafsson</i>
 16:10 - 16:40	CELLULOSE NANOFIBER NETWORKS – STRUCTURE, PROPERTIES AND APPLICATIONS <i>L. A. Berglund, Royal Institute of Technology, Stockholm, Sweden</i>	MAKING COMPOSITES WITHOUT MATRIX <i>T. Peijs, Queen Mary University of London, London, UK</i>	TIME DEPENDENT BEHAVIOUR OF WATER-IN-OIL EMULSIONS STABILISED BY HYDROPHOBISED BACTERIAL CELLULOSE NANOFIBRILS <i>K.-Y. Lee, J. J. Blaker, R. Murakami, A. Bismarck, Konan Univeristy, Kobe, Japan</i>
16:40 - 17:00	FUNCTIONALISED CELLULOSE NANOWHISKERS <i>W. Thielemans, The University of Nottingham, UK</i>	NATURAL FIBRE COMPOSITE ENERGY ABSORPTION STRUCTURES <i>J. Meredith, R. Ebsworth, S. Coles, B. Wood, K. Kirwan, WMG, University of Warwick, UK</i>	GREENER FOAM: GLOBAL RESEARCH, DEVELOPMENT AND COMMERCIALIZATION <i>R. Gu, M. M. Sain, University of Toronto, Canada</i>
17:00 - 17:20	SURFACE ACCESSIBILITY AND SURFACE MODIFICATIONS OF NANOFIBRILLATED CELLULOSE <i>T. Tammelin, H. Setälä, L. Johansson, M. Österberg, VTT Technical Research Centre of Finland, Finland</i>	INFLUENCE OF CHEMICAL MODIFICATION ON THE WATER UPTAKE PROPERTIES OF WOOD PLASTIC COMPOSITES <i>C. Burgstaller, W. Stadlbauer, Transfercenter für Kunststofftechnik GmbH, Austria</i>	BIOCOMPATIBLE AND BIODEGRADABLE 2-HYDROXY-ETHYL METHACRYLATE BASED POROUS POLYMERS <i>M. Paljevca, P. Krajnc, University of Maribor / Centre of Excellence PoliMaT, Slovenia</i>
17:20 - 17:40	INORGANIC NANOPARTICLE DECORATION OF WOOD-BASED CELLULOSE NANOFIBERS TO FORM STRONG MAGNETIC NANOCOMPOSITE MEMBRANES <i>R. T. Olsson, S. Galland, V. Ström, L. A. Berglund, Royal Institute of Technology, KTH, Stockholm, Sweden</i>	THE IMPLICATIONS OF HYGROTHERMAL AGEING ON FLEXURAL PROPERTIES OF GLASS REINFORCED LINSEED AND CASTOR OIL BASED POLYMER COMPOSITES <i>M. Malmstein, J. Blake, A. Chambers, University of Southampton, UK</i>	MECHANICALLY FROTHING HIGH INTERNAL PHASE EMULSIONS: DEVELOPING HIERARCHICAL MACROPOROUS NANOCOMPOSITES THE GREEN WAY <i>L. C. Wong, K.-Y. Lee, A. Menner, A. Bismarck, Polymer and Composite Engineering (PaCE) group, Imperial College London, UK</i>
17:40 - 18:00	FROM BACTERIAL CELLULOSE TO FUNCTIONAL MATERIALS: A VERSATILE ROUTE TO SYNTHESIZE BIOINORGANIC NANOHYBRIDS <i>A. Abbott, A. Bismarck, Polymer and Composite Engineering (PaCE) Group, Imperial College London, UK</i>	ELABORATION PROCESS INFLUENCE ON MECHANICAL PROPERTIES OF COMMINGLED FLAX-POLYMER FABRIC COMPOSITES <i>L. Bizet, S. Guéret, Université du Havre, France</i>	RENEWABLE FREEZE-DRIED WHEAT GLUTEN FOAMS <i>T. O. J. Blomfeldt, R. Kuktaite, R. H. Krämer, R. T. Olsson, M. Menon, D. Plackett, E. Johansson, M. S. Hedenqvist, Royal Institute of Technology, Stockholm, Sweden</i>
18:00 - 18:20	BIOSOURCED COPOLYMERS “CLICKED” WITH IONIC LIQUID FOR FINE TUNING OF CARBON NANOTUBE DISPERSION <i>R. Mincheva, F. Meyer, P. Verge, J.-M. Raquez, L. Billiet, F. Du Prez, P. Dubois, Center of Innovation and Research in Materials and Polymers (CIRMAP), University of Mons UMONS, Belgium</i>	RHEOLOGICAL INVESTIGATION OF WOOD-POLYPROPYLENE COMPOSITE IN SLIDING PLATE RHEOMETER <i>E. Sourya, A. Hossein Behravesha, G. M. Rizvib, N. Jafarian Jama, Tarbiat Modares University, Tehran, Iran</i>	AIR TEMPLATED BIO-BASED POLYMER NANOCOMPOSITE FOAMS <i>K.-Y. Lee, L. C. Wong, J. J. Blaker, J. M. Hodgkinson, Polymer and Composite Engineering (PaCE) group, Imperial College London, UK</i>
18:20 - 21:00	Poster Event + Free Bar		

Friday 30th September 2011

8:40 - 9:20	<p align="center">PLENARY 5: <u>Richard P. Wool</u>, University of Delaware, DE, USA BIOBASED POLYMERS AND COMPOSITES</p>	
9:20 - 10:00	<p align="center">PLENARY 6: <u>Yoshiharu Doi</u>, RIKEN Research Cluster for Innovation, Japan MICROBIAL PRODUCTION AND MATERIAL DESIGN OF POLYHYDROXYALKANOATES (PHAs)</p>	
10:00 - 10:20	Break	
10:20 - 12:20	<p align="center">BIOBASED POLYMERS 1 <i>Chairs: S. Knaus, C. K. Williams</i></p>	<p align="center">BIOBASED COMPOSITES 4 <i>Chairs: R. Joffe, L. Bizet</i></p>
10:20 - 10:50	<p>PLANT OILS: THE PERFECT RENEWABLE RESOURCE FOR POLYMER SCIENCE ?! <u>M. A. R. Meier</u>, Karlsruhe Institute of Technology (KIT), Institute of Organic Chemistry, Karlsruhe, Germany</p>	<p>MOISTURE CONTENT AND DIMENSIONAL CHANGES OF NATURAL FIBRE COMPOSITES <u>B. Madsen</u>, H. Lilholt, Risoe National Laboratory for Sustainable Energy, Technical University of Denmark, Denmark</p>
10:50 - 11:20	<p>SOY PROTEIN BASED ADHESIVES AND THEIR APPLICATIONS <u>X. S. Sun</u>, Kansas State University, KS, USA</p>	<p>EFFECT OF HOT WATER IMMERSION ON THE MECHANICAL PROPERTIES OF JUTE AND JUTE HYBRID REINFORCED COMPOSITES Y. Yu, Z. Zhang, Y. Yang, <u>H. Hamada</u>, Kyoto Institute of Technology, JAPAN</p>
11:20 - 11:40	<p>WATER SORPTION BEHAVIOUR OF NATURAL MATERIALS <u>D. R. Williams</u>, Imperial College London, UK</p>	<p>DESIGN AND DEVELOPMENT OF FULLY BIODEGRADABLE PRODUCTS <u>F. Julián</u>, F. X. Espinach, M. À. Pèlach, F. Vilaseca, University of Girona, Spain</p>
11:40 - 12:00	<p>THE EFFECT OF CHAIN EXTENDER ON POLY(3-HYDROXYBUTYRATE- CO-3-HYDROXY-VALERATE): THERMAL DEGRADATION, CRYSTALLIZATION, AND RHEOLOGICAL BEHAVIOURS <u>S. Duangphet</u>, D. Szegda, J. Song, K. Tarverdi, Brunel University, Uxbridge, UK</p>	<p>MECHANICAL PERFORMANCE OF POLYMER COMPOSITES REINFORCED WITH NON-LINEAR CELLULOSIC FIBERS R. Joffe, B. Nyström, L. Rozite, J. Varna, Luleå University of Technology, / Swerea SICOMP, Piteå, SWEDEN</p>
12:00 - 12:20	<p>BIO-BASED THERMOSET RESINS FROM SOYBEAN AND LINSEED OILS FOR STRUCTURAL COMPOSITES <u>K. Adekunle</u>, D. Åkesson, F. Bakare, M Skrifvars, University of Borås, Sweden</p>	<p>REGENERATED MAN-MADE CELLULOSE RAYON FIBRES AND THEIR COMPOSITES <u>A. Mader</u>, E. Volkmann, R. Einsiedel, J. Müssig, Bionik, Hochschule-Bremen, Germany</p>
12:20 - 14:00	Lunch	

Friday 30th September 2011

BIOBASED POLYMERS 2

Chairs: R. P. Wool, M. A. R. Meier

14:00 - 17:00



14:00 - 14:30

BIO-BASED POLYMERS: STILL AN EMERGING AREA?

M. M. G. Antonisse, *DSM Bio-based Products & Services, The Netherlands*



14:30 - 15:00

LEAN, MEAN AND GREEN

K. Kirwan, *WMG, University of Warwick, UK*



15:00 - 15:30

POLYMER SYNTHESIS USING RENEWABLE RESOURCES

C. K. Williams, *M. Tang, Imperial College London, UK*



15:30 - 16:00

NEW FUNCTIONAL DEGRADABLE POLYMERS BY FREE-RADICAL POLYMERIZATION

S. Agarwal, *Y. Zhang, N. Grabe, S. Maji, Philipps-Universität Marburg, Germany*

16:00 - 16:20

PHOTOCROSSLINKING OF AN ACRYLATED EPOXIDIZED LINSEED OIL – KINETICS AND ITS APPLICATION FOR OPTIMIZED WOOD COATINGS

G. Wuzella, *A. R. Mahendran, U. Müller, A. Kandelbauer, A. Teischinger, Wood Carinthian Competence Center (W3C), Kompetenzzentrum Holz GmbH, Austria*

16:20 - 16:40

CHEMICAL TRANSFORMATIONS AND NEW MATERIALS FROM CORN OIL

A. W. Myers, *Z. Petrovic, I. Javni, A. Zlatanic, D. P. Hong, J. Milic, Kansas Polymer Research Center, Pittsburg State University, USA*

16:40 - 17:00

Closing remarks + Student Awards Ceremony + Announcement of BEPS 2012

17:00

End

18:20 - 21:00

POSTER SESSION - Thursday 29th September 2011

1	NOVEL IN-SITU POROSIFER TEMPLATING ROUTES TO PRODUCE ALL-CELLULOSE NANO-FIBRILLAR FOAMS L. Shook, A. Abbott, K.-Y. Lee, A. Bismarck, <u>J. J. Blaker</u> , <i>Polymer and Composite Engineering (PaCE) Group, Imperial College London, UK</i>
2	WATER STABLE BIODEGRADABLE NANOFIBER NONWOVENS BY ELECTROSPINNING OF AQUEOUS DISPERSIONS OF ALIPHATIC BLOCK COPOLYESTERS <u>K. Bubel</u> , J. Sun, F. Chen, S. Agarwal, A. Greiner, <i>Philipps-Universität Marburg, Germany</i>
3	BIOPOLYOLS-BASED POLYURETHANES. SYNTHESIS AND CHARACTERIZATION <u>M^a. A. Corcuera</u> , B. Fernández-d'Arlas, L. Rueda, A. Saralegui, T. Calvo, I. Mondragon, A. Eceiza, <i>University of Basque Country, Spain</i>
4	FUNCTIONALIZATION OF POLYLACTIC ACID THROUGH AZEOTROPIC DEHYDRATIVE CONDENSATION <u>A. Gregorova</u> , M. Schalli, F. Stelzer, <i>Graz University of Technology, Austria</i>
5	ELASTOMETIC POLYURETHANE/CNC NANOCOMPOSITES: INFLUENCE OF CNC ASPECT RATIO L. Rueda, B. Fernández-d'Arlas, A. Saralegui, Q. Zhou, L. A. Berglund, I. Mondragon, M ^a . A. Corcuera, <u>A. Eceiza</u> , <i>University of the Basque Country, Spain</i>
6	FT-NEAR INFRARED SPECTROSCOPY TO ANALYSE THE MOLECULAR STRUCTURE OF POLYSACCHARIDES FROM LIGNOCELLULOSE <u>K. Fackler</u> , T. Ters, S. Braovac, M. Schwanninger, <i>Vienna University of Technology, Austria</i>
7	DELIGNIFYING PRETREATMENT OF WHEAT STRAW USING ALKALINE PEROXIDE IN THE PRESENCE OF ETHANOL <u>K. Fackler</u> , T. Ters, K. Messner, C. Krongtaew, <i>Vienna University of Technology, Austria</i>
8	COLLOIDAL STABILITY OF CHARGED CELLULOSE NANOCRYSTALLINE IN AQUEOUS SYSTEMS <u>S. Fu</u> , L. Zhong, <i>South China University of Technology, Guangzhou, China</i>
9	EXPERIMENTAL STUDY OF THE BIODEGRADATION OF POLYLACTIC ACID AND ITS NANOCOMPOSITES <u>P. Georgiopoulos</u> , E. Kontou-Drougka, <i>National Technical University of Athens, Greece</i>
10	BIOCHAR: A NEW RENEWABLE CARBON SOURCE FOR BIOMATERIAL USES <u>P. Gonugunta</u> , S. Vivekanandhan, A. K. Mohanty, M. Misra, <i>University of Guelph, Canada</i>
11	NEW CUTINASES FOR POLYETHYLENE DEGRADATION AND THE INFLUENCE OF SURFACE PROPERTIES <u>K. J. Greimel</u> , E. H. Acero, D. Ribitsch, A. Marold, S. Nowitsch, E. M. Trotscha, G. Freddi, G. M. Guebitz, <i>ACIB GmbH, Graz, Austria</i>
12	NOTCH SENSITIVITY OF JUTE FIBER MAT REINFORCED UNSATURATED POLYESTER MATRIX COMPOSITES E. A. Elbadry, M. S. Aly-Hassan, <u>H. Hamada</u> , <i>Kyoto Institute of Technology, Japan</i>
13	EFFECT OF STORAGE ON OAT SPELT ARABINOXYLAN FILMS PLASTICIZED WITH GLYCEROL AND SORBITOL <u>S. L. Heikkinen</u> , P. Koivisto, K. S. Mikkonen, K. Pirkkalainen, R. Serimaa, M. Tenkanen, <i>University of Helsinki, Finland</i>

14	NEW FUSED CUTINASES WITH ENHANCED POLYETHYLENE TEREPHTHALATE HYDROLYSIS <i>E. H. Acero, K. J. Greimel, A. O. Yebra, S. Nowitsch, A. M. Marold, A. Doliska, D. Ribitsch, K. S. Kleinschek, J. Wu, G. M. Guebitz, ACIB GmbH, Austria</i>
15	COPOLYMERIZATION AND CHARACTERIZATION OF DIFFERENT SIZED MUCIC ACID BASED MICROPARTICLES <i>S. Jäger, J. Kremmel, H. Wutzel, S. Knaus, HTL Dornbirn, Austria</i>
16	FLOCCULATED FLOW OF MICROFIBRILLATED CELLULOSE WATER SUSPENSIONS <i>A. Karppinen, T. Saarinen, A. Laukkanen, Jukka Seppälä, Aalto University School of Chemical Technology, Aalto, Finland</i>
17	DESIGNING PAPER PRODUCTS FROM CROP WASTE <i>A. Kaynama, K. Sant, M. de Greiffenclau, B. Lyngdoh, Karmic Promo Products, Sussex, UK</i>
18	BIODEGRADABILITY OF BIOPLASTICS IN CROPLAND AND EXPOSURE TO MOULD GROWTH <i>S. Khoramnejadian, S. Khoramnejadian, Islamic Azad University, Damavand, Iran</i>
19	CASEIN FILMS AND ITS COMPOSITES WITH REGENERATED CELLULOSE FIBRE FOR PACKAGING APPLICATIONS <i>H. Kumar, P. Mahimaisenar, S.-W. Cho, K. Adekunle, M. Skrifvars, University of Borås, Sweden</i>
20	IMPROVING THE PROPERTIES OF BACTERIAL CELLULOSE/POLY(L-LACTIC ACID) NANOCOMPOSITES BY HETEROGENEOUS MODIFICATION OF BACTERIAL CELLULOSE. IS IT THE WAY FORWARD? <i>K.-Y. Lee, J. J. Blaker, A. Bismarck, Polymer and Composite Engineering Group (PaCE), Imperial College London, UK</i>
21	PHYSICOCHEMICAL PROPERTIES AND ADHESION PERFORMANCE OF CANOLA PROTEIN MODIFIED WITH SODIUM BISULFITE <i>N. Lia, G. Qi, X. S. Sun, D. Wang, Kansas State University, KS, USA</i>
22	BIO-BASED NON-ISOCYANATE POLYURETHANE COATINGS DERIVED FROM PLANT OILS <i>A. R. Mahendran, N. Aust, G. Wuzella, U. Müller, A. Kandelbauer, Wood Carinthian Competence Center (W3C), Kompetenzzentrum Holz GmbH, Austria</i>
23	HYDROLYSIS OF POLYETHYLENE TEREPHTHALATE WITH A NEW CUTINASE FROM THERMOBIFIDA ALBA <i>A. Marold, D. Ribitsch, E. H. Acero, K. J. Greimel, J. Eiteljoerg, E. Trotscha, G. Freddi, H. Schwab, G. M. Guebitz, ACIB GmbH, Graz, Austria</i>
24	ACOUSTIC AND DAMPING CHARACTERISTICS OF ARECA FIBER REINFORCED PHENOL FORMALDEHYDE COMPOSITES <i>G. C. Mohan Kumar, G. Manovendra, S. Kumarappa, National Institute of Technology Karnataka Surathkal, Mangalore, India</i>
25	PREPARATION AND PROPERTIES OF NANO-CELLULOSE REINFORCED POLYMER <i>M. Muhamad, P. Hornsby, Queen's University Belfast, Belfast, UK</i>
26	PLA-GRAPHITE NANOCOMPOSITES AS PROMISING NEW MATERIALS FOR ENGINEERING APPLICATIONS <i>M. Murariu, A.-L. Dechief, Y. Paint, L. Bonnaud, J.-M. Raquez, P. Dubois, Center of Innovation and Research in Materials & Polymers (CIRMAP), Materia Nova Research Center & University of Mons-UMONS, Belgium</i>

27	CHARACTERISTICS AND POTENTIAL PRODUCTS FROM ALGAE OILS <i>A. W. Myers, Z. Petrovic, I. Javni, D. P. Hong, Kansas Polymer Research Center, Pittsburg State University, USA</i>
28	RENEWABLE RESOURCE BASED GREEN COMPOSITES FROM GRASS FIBERS AND BIOPLASTICS <i>V. Nagarajan, M. Misra, A. Mohanty, University of Guelph, Canada</i>
29	MOLDING METHOD AND MECHANICAL PROPERTIES OF JUTE/PLA INJECTION MOLDINGS <i>T. Ohta, Z. Zhang, P. Uawongsuwan, Y. Ying, A. Memon, Y. Yang, H. Hamada, Kyoto Institute of Technology, Japan</i>
30	PRODUCTION OF POLYHYDROXYALKANOATES FROM FATTY WASTES <i>S. Povolò, M. G. Romanelli, N. D. Di, M. Basaglia, Università di Padova, Agripolis, Italy</i>
31	SYNTHESIS AND CHARACTERIZATION OF NATURAL OIL BASED ALKYD-ACRYLIC COPOLYMERS <i>P. Rämänen, S. L. Maunu, University of Helsinki, Finland</i>
32	ENZYMATICAL AND FUNGAL MODIFICATION OF INDUSTRIAL LIGNOSULFONATES <i>M. Riegler, E. Srebotnik, S. Knaus, Vienna University of Technology, Austria</i>
33	NOVEL METHODS TO INTRODUCE FUNCTIONALITY TO CELLULOSE <i>M. Ruda, Sweetree Technologies AB, Stockholm, Sweden</i>
34	ELASTOMERIC POLYURETHANE FILLED WITH LAYERED SILICATES AND CELLULOSE NANOCRYSTALS <i>L. Rueda, B. Fernández-d'Arlas, A. Saralegui, Q. Zhou, L. A. Berglund, I. Mondragon, M^a. A. Corcuera, A. Eceiza, University of the Basque Country, Spain</i>
35	POLYURETHANE NANOCOMPOSITES WITH HIGH PERCENTAGE OF COMPONENTS DERIVED FROM RENEWABLE RESOURCES <i>A. Saralegui, L. Rueda, B. Fernández-d'Arlas, M^a. D. Martín, I. Mondragon, A. Eceiza, M^a. A. Corcuera, University of the Basque Country, Spain</i>
36	CARBOXYMETHYLCELLULOSE BASED BIORESPONSIVE POLYMERS USED FOR ENZYMATIC CONTROLLED RELEASE <i>K. Schneider, A. Hasmann, E. Sigl, T. Flock, U. Gewessler, D. Schiffer, G. M. Guebitz, ACIB GmbH, Austria</i>
37	BIO-MATERIALS AND TECHNOLOGY LAB <i>X. S. Sun, Kansas State University, KS, USA</i>
38	EVALUATION OF TRANSVERSE THERMAL CONDUCTIVITY OF NATURAL FIBER COMPOSITES <i>K. Liu, H. Takagi, A. N. Nakagaito, K. Kusan, Z. Yang, The University of Tokushima, Tokushima, Japan</i>
39	CELLULOSE POLYMERS FROM SUB- AND SUPERCRITICAL WATER TREATMENT <i>L. Tolonen, A. Kruse, H. Sixta, Aalto University, Helsinki, Finland</i>

40	SYNTHESIS AND CHARACTERIZATION OF OXYPROPYLATED LIGNINS K. Wallisch, D. Dautevendic, S. Knaus, <i>Vienna University of Technology, Austria</i>
41	ANALYSIS OF LIGNINS FROM VARIOUS SOURCES USING ALKALINE HPSEC AND NMR F. Zikelj, T. Ters, K. Fackler, E. Srebotnik, <i>Vienna University of Technology, Austria</i>
42	THE EFFECT OF ADDITIVES ON MATERIALS PRODUCED FROM PROTEIN RICH CRAMBE OILSEED RESIDUALS W. R. Newson, R. Kuktaite, M. Gällstedt, M. S. Hedenqvist, E. Johansson, <i>Swedish University of Agricultural Sciences, Alnarp, Sweden</i>
43	IMPROVEMENT OF BENDING PROPERTIES OF POLYMERIC COMPOSITES USING DATE PALM AND JUTE NATURAL FIBERS M. Asadzadeh, S. Rafizadeh, S. M. R. Khalili, <i>Technical university of Vienna, Austria</i>
44	CHITIN BUTYRATE ACETATE COPOLYESTER FIBRES CONTAINING TRICALCIUM PHOSPHATE (TCP) NANOADDITIVE M. Bogun, Z. Draczynski, G. Szparaga, P. Krol, <i>Technical University of Lodz, Lodz, Poland</i>
45	INFLUENCE OF PLASTICIZER TYPE AND ITS COMPATIBILITY ON THERMAL PROPERTIES OF CELLULOSE ACETATE S. Kabasci, H-J. Radusch, T. Wodke, S. Zepnik, <i>Fraunhofer Institute for Environmental, Oberhausen, Germany + Martin Luther University, Halle/Saale, Germany</i>
46	DIRECT EVALUATION OF ADHESIVE ENERGY IN A WOOD ADHESIVE BOND USING NANOINDENTATION TECHNIQUE M. Obersriebnig, S. Veigel, J. Konnerth, E-M. Lems, W. Gindl-Altmutter, <i>BOKU Vienna, Austria</i>
47	MODEL SURFACE STUDY ON WATER VAPOUR UPTAKE BEHAVIOR OF XYLAN DERIVATIVES K. Kammiovirta, M. S. Peresin, H. Setälä, T. Tammelin, VTT, Technical Research Centre of Finland, Finland
48	ISOLATION AND NMR CHARACTERIZATION OF WL-26, A NOVEL MICROBIAL EXOPOLYSACCHARIDE FROM BACTERIA SPHINGOMONAS SPP. JZZ 0509 W. Jia, Z.-Y. Zheng, Y. Jiang, J.-S. Zhang, X.-B. Zhan, <i>Jiangnan University / Shanghai Academy of Agricultural Sciences, Shanghai, China</i>