



DAY 1	23.09.2018	SUNDAY / NIEDZIELA
17 ⁰⁰ - 20 ⁰⁰	Registration of Participants / Rejestracja Uczestników Lodz University of Technology, International Faculty of Engineering Zwirki 36, Lodz - CAMPUS A	

DAY 2	24.09.2018	MONDAY / PONIEDZIAŁEK
8 ⁰⁰ - 16 ⁰⁰	Registration of Participants / Rejestracja Uczestników	
9 ⁰⁰ - 9 ¹⁵	OPENING AND WELCOME / POWITANIE UCZESTNIKÓW	
9 ¹⁵	Frugal Innovations with Paper through surface and Interface engineering Stephanie Oyola-Reynoso, J.-F. BLOCH, <u>Martin M. Thuo</u>	
9 ⁴⁵	Comparison of Wood and Non Wood Market Pulps for Tissue Application Tiago de Assisa, <u>Joel Pawlak</u> , Hasan Jameel, Lokendra Pal, Ronalds Gonzalez	
10 ¹⁵	Dynamic Characterization of fluid sorption: application to paper and tissue Konrad Olejnik, Jean-Francis Bloch, Paweł Pełczyński, Agnieszka Głowacka	
10 ⁴⁵	COFFEE BREAK / PRZERWA	
11 ¹⁵	Modelling the hygroexpansion of paper using a 3D network model H.R. Motamedian and A. Kulachenko	
11 ⁴⁵	Characterization of the heterogeneous specific stiffness of paperboard materials Prof. Dr. D. Steven Keller, Daniel Knettel M.S., Catherine Fitzgerald Andres, Jasmine Spicer	
12 ¹⁵	Increased Formability of Paperboard by Hydrostatic Pressure - Philipp Stein, M. Sc.; Julian Mushövel, B. Sc.; Wilken Franke, M. Sc.; Prof. Dr.-Ing. Dipl.-Wirtsch.-Ing. Peter Groche	
12 ⁴⁵	LUNCH / OBIAD	
13 ³⁰	Understanding the relationship between shrinkage and elongation of paper <u>Jarmo Kouko</u> , PhD, Elias Retulainen DSc (Tech)	
14 ⁰⁰	Development of Strains and Stresses during drying of Paper Georg Urstöger, Artem Kulachenko, Ulrich Hirn	
14 ³⁰	How to improve the mechanical properties of recycled paper by noncovalent modification of fibres - Cristina Crespo (PhD), Pablo González (PhD), Gemma Ibarz (PhD), María Muniesa (MSc Chem), Alberto Mena (MSc Chem), Azucena González (MSc Chem)	
15 ⁰⁰	Viscoelastic and hygroscopic properties of cellulosic materials investigated by atomic force microscopy methods <u>Caterina Czubula</u> , Christian Ganser, Robert Schennach, Ulrich Hirn, and Christian Teichert	
17 ⁰⁰ - 19 ⁰⁰	Guided tour of Lodz	

DAY 3	25.09.2018	TUESDAY / WTOREK
9 ⁰⁰	Keynote Lecture:	
9 ⁴⁵	Panel Discussion: Is paper physics the irrelevant, ancient discipline?	
11 ⁰⁰	COFFEE BREAK / PRZERWA	
11 ³⁰	A fractured-based view of strength development in handsheets <u>Douglas W. Coffin, Professor</u>	
12 ⁰⁰	Failure initiation mechanisms of paper and board in compression August Brandberg, MSc. and Artem Kulachenko, PhD	
12 ³⁰	Continuum Modelling of the In-plane and Out-of-plane Behaviour of Paper based on Finite Strain Elasto-Plasticity Ahmad Alajami; Yujun Li, Dr; Abolhasan Nazarinezhad Giashi; Jaan-Willem Simon, Dr	
13 ⁰⁰	LUNCH / OBIAD	
14 ⁰⁰	Characterization of bursting energy absorption Konrad Olejnik, <u>Anna Stanisławska</u> , Jean-Francis Bloch, Anna Dryja	
14 ³⁰	Optimized procedure for the synthesis of dialcohol cellulose pulp and its thermomechanical properties Stefan Möckel, Martin Zahel, PhD and Tiemo Arndt, PhD	
15 ⁰⁰	3D Image-based Finite-Element Modelling of Deformation in Softwood Pulp: Effect of Refining Intensity Robert Cicoria, Farzin Golkhosh, Mark Martinez, André Phillion	
15 ³⁰ - 17 ⁰⁰	POSTER SLIDE PRESENTATIONS / SESJA PLAKATOWA	
18 ⁰⁰ - 21 ⁰⁰	GALA DINNER (Browar Księży Młyn ul. Tymienieckiego 22/24, 90-349 Łódź)	

DAY 4	26.09.2018	WEDNESDAY / ŚRODA
9 ⁰⁰	Z-Dimensional Local Compression of Paper Towel Structural Features <u>Daniel Knettel M.S.</u> and Prof. Dr. D. Steven Keller	
9 ³⁰	Highly oriented paper for paper based construction materials R. Götzinger M.Sc., Prof. Dr.-Ing. S. Schabel	
10 ⁰⁰	The effects of fiber selection on the physical property of bath tissue paper Yuhan Wang, <u>Joel Pawlak</u> , Ronalds Gonzalez	
10 ³⁰	COFFEE BREAK / PRZERWA	
11 ⁰⁰	Using Representative Volume Elements for Evaluating the Out-of-plane Response of Fiber Networks Yujun Li, Dr.; Zengzhi Yu; Jaan-Willem Simon, Dr.	
11 ³⁰	X-RAY nanotomography of individual fibre bonds - the effect of fibre wall thickness on contact area <u>T. Sormunen (MSc)</u> , A. Ketola (MSc), A. Miettinen (PhD), J. Parkkonen (MSc), E. Retulainen (DSc)	

12 ⁰⁰	Modified cellulose fibers for papermaking applications Konrad Olejnik, <u>Piotr Kulpiński</u> , Marta Krysztof, Aleksandra Erdman
12 ³⁰	LUNCH / OBIAD
13 ³⁰	Simulation of mechanical dewatering based on high resolution imaging and detailed material models Timo Frick, <u>Dr. Siegfried Graser</u> , Bettina Grashof, Dr. Natalie Osti
14 ⁰⁰	Degradation of mechanical properties of cardboard due to manufacturing and converting processes Tomasz Garbowski, PhD
14 ³⁰	Pore Space Extraction and Characterization of sack paper using μ-CT <u>Eduardo Machado Charry</u> , Matthias Neumann, Jussi Lahti, Robert Schennach, Volker Schmidt, and Karin Zojer
15 ⁰⁰ - 17 ⁰⁰	Tappi Paper Physics Committee / Posiedzenie

18 ⁰⁰ - 21 ⁰⁰	Concerto in Academy of Music in Lodz with refreshment / Koncert w Pałacu Akademii Muzycznej (Gdańska 32, 90-716 Łódź) wraz z poczęstunkiem
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DAY 5	27.09.2018	THURSDAY / CZWARTEK
9 ⁰⁰	Cellulose-polyamide fibrous composites <u>Magdalena Kmiotek</u> , Dariusz Danielewicz, Katarzyna Dybka-Stępień	
9 ³⁰	The trojan-horse strategy for designing thermally self-repairing superhydrophobic barrier coatings on paper M. Biesalski	
10 ⁰⁰	Siloxane based hydrophobic paper coatings <u>Tomasz Ganicz, DSc.</u> , Konrad Olejnik, Dsc.; Krystyna Różga-Wijas, PhD; Jan Kurjata, PhD.	
10 ³⁰	Laboratory simulation of paper mechanical response during high-speed inkjet printing Jussi Lahti, PhD; Jarmo Kouko, PhD; Ulrich Hirn, Assoc. Prof. PhD	
11 ⁰⁰	Liquid penetration into paper <u>Sarah Krainer</u> and Ulrich Hirn	
11 ³⁰	The mechanics of double roll compacting process <u>Chiara Ceccato</u> , Artem Kulachenko, Christophe Barbier	
12 ⁰⁰	CONFERENCE CLOSE / ZAKOŃCZENIE KONFERENCJI, POŻEGNANIE UCZESTNIKÓW	

POSTER LIST

Improvement of refining homogeneity

A. Biel-Tyralska, T. Tyralski

Nanofibrillated cellulose produced by enzymatic or chemical treatments combined with mechanical disintegration

C. Bilir

Properties of lightweight fibrous structures made by a foam Forming technique

S. Burke, M.E. Möbius, T. Hjelt, S. Hutzler

The influence of the primer on the physical-mechanical and printing properties of paper for inkjet printing

S. Havenko, S. Khadzhynova

Use of DIC-3D as a tool to study local strains and creep behaviour in a microscale for different cellulosic materials

E. Liarte, J.F García, P. González, C. Crespo

A simple route to antibacterial paper

D. Nunes, E. Fortunato, R. Martins, C. Kittinger, D. Toplitsch, R. Schennach

Modification of paper properties with polysiloxane microspheres

P. Pospiech, K. Olejnik, A. Wysocka-Robak, U. Mizerska, J. Zakrzewska

Superhydrophobic electroconductive cotton fabric with reduced graphene oxide

M. Svyntkivska, T. Makowski, E. Piorkowska, U. Mizerska, W. Fortuniak, D. Kowalczyk, S. Brzezinski