8th International Conference Polymeric Materials in Automotive PMA 2020

&

24rd Slovak Rubber Conference SRC 2020

PROGRAM

September 16 - 18, 2020

Conference Center of Lindner Hotel Gallery Central Bratislava, Slovak Republic

Organised by: Slovak University of Technology in Bratislava

Faculty of Chemical and Food Technology Institute of Natural and Synthetic Polymers

Polymer Institute

Slovak Academy of Sciences

Wednesday (September 16, 2020)

PMA 2020 & SRC 2020

10.00 -10.10	Opening ceremony	CHODÁK Ivan	
Chairperson	CHODÁK Ivan		
10.10 – 10.30	Opening Lecture	GATIAL Anton Faculty of Chemical and Food Technology STU Bratislava,	Research activities of the Faculty of Chemical and Food Technology STU in Bratislava
10.30 – 10.50	Opening Lecture	MOSNAČEK Jaroslav Polymer Institute SAS Bratislava,	Research activities of the Polymer Institute of Slovak Academy of Sciences Bratislava
10.50 – 11.30	Opening Invited Lecture	KLEIN Štefan Academy of Fine Arts and Design in Bratislava	The challenges of the Transport in the Future
11.30 – 12.10	Opening Invited Lecture	GIESE Ulrich Deutsches Institut für Kautschuktechnologie DIK, Hannover	Electro Mobility – New chances or risks for the rubber industry in the future
12.10 – 12.40	Opening Invited Lecture	MAGDOLEN L'uboš Faculty of Mechanical Engineering STU Bratislava	Autonomous Vehicle SinRod made in Slovakia
12.40 - 14.00	Lunch		
Chairperson	GIESE Ulrich		
14.00 – 14.45	Invited Main Lecture	ALEXY Pavel STU Bratislava	Plastics in the circular economy – technical and ecological aspects
14.45 – 15.30	Invited Lecture	SCACCHI Michele Alpha Technology	Different techniques to detect long chain branching in polymers by non-linear viscoelastic characterization
15. 30 – 16.00	Coffee Break		
Chairperson	SCACCHI Michele		
16.00 - 16.30	Invited Lecture	STOČEK Radek Coesfeld GmbH & Co. Dortmund, Germany	Heat built up of rubber under cyclic loading: in-situ analysis
16.30 - 17.00	Invited Lecture	STAŠKOVAN Ondrej Anton Paar Slovakia s.r.o., Bratislava	The new Anton Paar MCR 702 MultiDrive - the most versatile platform for rheology and dynamic mechanical analysis (DMA)
17.00 – 17.20	Contributed lecture	KARVANIS Konstantinos	Thermal analysis of post-cured aramid fiber reinforced polymer composites
17.20 – 18.30	Poster Session		
19.00 – 22.00	Cocktail		

LIST of POSTERS

- 1. **Dočkal, A.:** Morphology of micro injected IPP samples with fast temperature variation and control of the cavity temperature
- 2. **Dosoudil R.**: Carbon-based composites for electromagnetic shielding purposes
- 3. **Gemeiner P.:** The effect of various dopants on the electrical and structural properties of printed conductive polymer pedot:PPS thin electrodes
- 4. Hložeková, K.: Elastomeric composite materials
- 5. Hricová, M.: Fibres from PLA
- 6. **Lisý**, **K.**: Rubber composites filled with carbon nanotubes and magnetic ceramics for electromagnetic noise redukcion in cars
- 7. **Macúrik P.**: Influence of trans polyoctylene rubber (TOR) on styrene butadiene rubber properties
- 8. Majerský J: Materials for injection molding srews
- 9. Meluš, P.: Extrusion Head for Bead Wire Rubberising Equipped with Pressure Sensor
- 10. **Novák, I.**: Investigation of properties of hot melt adhesive based on metallocene polyolefin grafted with acrylic acid
- 11. **Novák, I.** : Antibacterial treatment of polyethylene with halogen compounds and low-temperature plasma
- 12. Omaníková, L.: Filled biodegradable polymer blends based on PLA and PHB suitable for 3D printing
- 13. **Oravec, J.**: Pressure Oscillations in Rubberising Head at Treating Bead Wire Surface with Silane Coupling Agents
- 14. Ryba, J.: Properties of fibres prepared from biodegradable polymers and their blends
- 15. Ujhelyiová A.: Properties of blends and blended fibres prepared from various types of polylactid acid
- 16. Vašková I.: BIOCOMPACK CE project overview
- 17. **Peidayesh H.:** Electrical conductivity behaviour of SBR filled with carbon black, graphite and their mixtures under cyclic mechanical stress
- 18. Feranc J.: Composites material based on PLA/PHB suitable for 3D printing

Thursday (September 17, 2020) PMA 2020 & SRC 2020

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Chairperson	ALEXY Pavol		
8.30 - 9.00	Key Lecture	OMASTOVÁ Mária	New hybrid materials and their applications
9.00 - 9.20	Contributed Lecture	RUSNÁKOVÁ Soňa	FST properties of polymer sandwich structures
9.20 - 9.40	Contributed Lecture	JARSEN Lisa	Degradation mechanism and behaviour of thermoplastic polymer at powertrain
9.40 - 10.00	Contributed Lecture	MIČUŠÍK Matej	Epoxy/carbon fiber composites with designed interface interaction
10.00 – 10.20	Contributed Lecture	KHUNOVÁ Viera	High performance multifunctional magnetic PCL/Gel nanofibres reinforced by halloysite nanotubes
10.20 - 10.40	Contributed Lecture	REPISKÁ Martina	Composites based on biodegradable polymer matrix
10.40 - 11.10		Coffee Break	
Chairperson	STOČEK Radek		
11.10 – 11.40	Key Lecture	BREJCHA Jiří	ELT /end-of-life tire/ - waste or source of material?
11.40 - 12.00	Contributed Lecture	KRUPS Tatjana	Aging behavior of fluoroelastomer in synthetic oils
12.00 – 12.20	Contributed Lecture	MACHU Aleš	Quick Read on Durability with the Intrinsic Strength Analyser
12.20 – 12.40	Contributed Lecture	ŠTĚNIČKA Martin	Intrinsic Strength Analyser: Tool for getting data for numerical simulation of durability
12.40 - 13.00	Contributed Lecture	KVASNIČÁKOVÁ Andrea	Cross-linking and properties of rubber magnets cured with combined sulfur and peroxide vulcanization systems
13.00 - 14.00		Lunch	
Chairperson	OMASTOVÁ Mária		
14.00 – 14.30	Key Lecture	BONDAREV Dmitrij	Polymer surfaces: analysis and modification
14.30 – 14.50	Contributed Lecture	KOLLÁR Jozef	Latex polymers derived from emulsion polymerization – synthesis, properties and
14.50 – 15.10	Contributed Lecture	PLAVEC Roderik	The effect of multiple processing od degradation of biodegradable polymer blends based on PLA and PHB
15.10 – 15.30	Contributed Lecture	HLAVÁČIKOVÁ Slávka	Recycling of biodegradable biobased blends PLA/PHB
15.30 – 16.00		Coffee Break	
Chairperson	KRUMP Henrich		
16.00 – 16.20	Contributed Lecture	PIPPING Falko	Renewable adhesives made from Tulipalin A
16.20 – 16.40	Contributed Lecture	VAŠKOVÁ Ida	Additive manufacturing in medical application
16.40 – 17.00	Contributed Lecture	DANIŠOVÁ Lucia	Biodegradable and biobased blends PLA/PHB/TPS for blown films
17.00 – 17.20	Contributed Lecture	MEDLENOVÁ Elena	Biodegradable and biobased blends PLA/PHB/TPS for injection molding
17.20 – 18.30	Poster Session	18.30 – 22.00	Conference Gala Evening

Friday (September 18, 2020)

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Chairperson	STAŠKOVAN Ondrej		
8.30 – 9.00	Invited Lecture	MAJERSKÝ Juraj Wittmann-Battenfeld SK, Trenčín	Industry 4.0 in injection moulding
9.00 - 9.30	Invited Lecture	KRÁL Jan Compuplast Zlín	Extrusion line for 3D filaments
9.30 – 10.00	Invited Lecture	KRUMP Henrich BizLink Technology (Slovakia) s. r. o., Trenčianska Teplá	Influence of physical and chemical blowing agents on properties of thermoplastic and thermoplastic elastomer blends
10.00 – 10.30	Invited Lecture	KRUŽELÁK Ján STU Bratislava	Rubber magnets with EMI absorbtion shielding ability
10.30 - 11.00	Coffee Break		
Chairperson	HUDEC Ivan		
11.00 – 11.45	Invited Main Lecture	GIESE Ulrich Deutsches Institut für KautschuktechnologieDIK, Hannover, Germany	Elastomer composites using polysaccharide based fillers from renewable resources
11.45 – 12.30	Invited Main Lecture	PUKÁNSKY Béla Budapest University of Technology and Economics	Physical ageing of Poly(Lactic Acid): free volume and internal stresses
12.15 – 13.00	Invited Lecture	MOCZO Janos Budapest University of Technology and Economics	Wood composites
13.00	Conference Closing Ceremony	HUDEC Ivan	
13.00 – 14.00	Lunch		