STU FCHPT
SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA
FACULTY OF CHEMICAL AND FOOD TECHNOLOGY

POLYMER INSTITUTE SAS
Polymer Institute
Slovak Academy of Sciences

INCHEBA EXPO BRATISLAVA
in cooperation with
INCHEBA EXPO BRATISLAVA

PMA 2013

International Conference
Polymeric Materials in Automotive
PMA 2013
&
Slovak Rubber Conference 2013

SRC® 2013

April 23 - 25, 2013

Conference Centre Hotel Bonbon
Bratislava
Slovak Republic

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International Conference Polymeric Materials in Automotive PMA 2013 & Slovak Rubber Conference 2013

PROGRAM

LIST OF PARTICIPANTS

April 23 - 25, 2013

Congress Centre Hotel Bonbon

Bratislava, Slovak Republic

Organised by: Slovak University of Technology
Faculty of Chemical and Food Technology
Institute of Polymer Materials

Polymer Institute
Slovak Academy of Sciences

in cooperation with
INCHEBA EXPO Bratislav

SCOPE

Advances in development of plastics and rubber-based materials for application in automotive industry.

TOPICS

- Materials Based on Plastics for Exterior and Interior
- Coatings Materials and Technologies
- Adhesives, Seals
- Polymeric Foams in Automotive
- Flammability and Flame Retardancy of Materials
- Materials and Procedures for Advanced Tyre Design
- Recycling of Plastics and Rubber Materials from Cars
- Advances in Testing of Polymeric Materials for Automotive (new test methods)

ORGANIZING COMMITTEE

Ivan HUDEC - Chairman of the Organizing Committee
Ivan CHODÁK - Chairman of the Program Committee
Katarina CSOMOROVÁ - secretary
Pavol ALEXY
Ľudmila ČERNÁKOVÁ
Zuzana HLOUŠKOVÁ
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Hans Joachim RADUSCH, DE
Jan RODA,CZ
Mohini Mohan SAIN, CA
Robert H. SCHUSTER, DE

LOCATION

BRATISLAVA, Petržalka, Conference Center of hotel Bonbon, Antolská str. 2 (see city map at the backsize of this booklet)
GPS coordination: GPS: N: 48,10040 E:17,11348

GENERAL INFORMATION

REGISTRATION OFFICE

The registration and information office will be open in Conference Center of hotel Bonbon (conference site):
Monday April 22 from 16.00 to 20.00
Tuesday from 8.00 till the end of the scientific program
The address of the Conference center is Antolská 2, Bratislava.

LANGUAGE:

English is the official language of the conference. All sessions, documents, proceedings will be held in English without translation.

REFRESHMENTS AND LUNCHES

Coffee, refreshments and lunch will be served in the conference area during the breaks.

INFORMATION FOR SPEAKERS

Plenary lectures – 45 minutes including 5 minutes discussion.
Key lectures -30 min including discussion
Contributed lectures - 20 min including discussion

TECHNICAL EQUIPMENTS IN SESSION ROOMS

Overhead projector, LCD projector
PC with PowerPoint 2000 (Windows 2000)
Laser pointer, microphone

Authors presenting the lecture using LCD projector may copy their presentations (Power Point 2000 for Windows on CD or USB memory stick) immediattely after registration, but at latest before beginning of morning session (presentation scheduled for morning) or during lunch break for afternoon sessions.

INFORMATION FOR POSTER PRESENTERS

Poster board size is 1.0 m high by 1.0 m wide
Each poster board will be labelled with a Poster Number
Posters can be installed on Tuesday and may remain on display until Thursday 13.00 at the latest.

UPDATED INFORMATION:

Updated information will be sent to each registered participant by e-mail in due time.
It can be found also on

www.pma.sav.sk

The www site is updated regularly in one-week interval.

Time	Monday 22 April	Tuesday 23 April	Wednesday 24 April	Thursday 25 April
8.00-9.00		Registration		
9.00-10.00		Opening ceremony Opening lecture	Lectures in sections	Lectures in sections
10.00-11.00		Invited lecture Invited plenary lecture	Coffee Break	Coffee Break
11.00-12.00		Coffee Break	Lectures in sections	Invited key lecture
12.00-13.00		Invited plenary lectures		Invited plenary lectures
13.00-14.00		Lunch	Lunch	Closing Ceremony Lunch
14.00-15.00		Invited key and contributed lecture	Lectures in sections	
15.00-16.00		Visiting of the 23th International Car Show AUTOSALON	Coffee Break	
16.00-17.00	Registration (Congress Center Hotel Bonbon)		Lectures in sections	
17.00-18.00				
18.00-19.00	Welcome Party (Congress Center)		Poster section	
19.00-20.00			Conference Gala Evening (Restaurant Csárda Hotel Bonbon)	
20.00-23.00				

International Conference Polymeric Materials in Automotive PMA 2013 & Slovak Rubber Conference SRC 2013

Program

Monday (April 22, 2013)

16.00 - 20.00 Registration - Congress Center Hotel Bonbon
18.00 – 20.00 Welcome party - Congress Center Hotel Bonbon

Tuesday (April 23, 2013)

	Chairperson	**Ivan CHODÁK**	
9.00 –09.30	Opening ceremony		
09.30 – 10.00	Opening Lecture	Jaroslav HOLEČEK	Automotive Industry in Slovakia
10.00 – 10.15	Invited lecture	Wolfgang HEUCHEL	Green mobility energized by Lanxess
10.15 – 11.00	Invited Plenary Lecture ML - 5	Robert SCHUSTER	CNT-Rubber Interaction - a base for innovative Rubber Materials
11.00 – 11.30	Coffee Break		
11.30 – 12.15	Invited Plenary Lecture ML - 4	Mohini Mohan SAIN	Nanotechnology and Carbon fibre in Green Composites
12. 15 – 13.00	Invited Plenary Lecture ML - 2	Toshio NISHI	Nanoscale Structure and Physical Properties Characterization for Super Fuel-efficient Tires
13. 00 – 14.15	Lunch		
	Chairperson	**Ivan Hudec**	
14.00 – 14.30	Invited Key Lecture	Jan DEVÁTÝ	Reduction of Rolling Resistance by Using Hybrid Crosslinker
14.30 – 14.50	CL - 21	Zdeněk RŮŽIČKA	A Unique Approach to Modelling of Composite Materials and Structure
15.00 – 17.30		INCHEBA EXPO	Visiting of the 23th International Car Show AUTOSALON

Wednesday (April 24, 2013)

Plastics in Automotive PMA 2013

Chairperson		Dušan BAKOŠ	
9.00 – 9.30	KL - 11	Jan RODA	Plastic in automotive
9.30 – 9.50	CL - 24	Michal STANĚK	Polymer fluidity influenced by the filler
9.50 – 10.10	CL – 15	Ondrej OSTROLUCKÝ	Akromid Lite and XtraLite - the lighweigth polyamid for technical parts
10.10 – 10.30	CL – 7	Tadeusz CHWALCZUK	Surface characteristics of polyamide 6 filled with calcium carbonate after finish turning
10.30 – 11.00		Coffee Break	
Chairperson		Takahashi INOUE	
11.00 – 11.30	KL – 7	Martin OBADAL	Current trends of polypropylene development towards automotive industry
11.30 - 12.00	KL – 14	Lukas SOBCZAK	PP-based natural fiber composites – substitution potential, challenges and chances
12.00 – 12.20	CL – 2	Mateusz BARCEWSKI	The method of vibroacoustical properties determination on the inside car door panels
12.20 – 12.40	CL – 12	David MAŇAS	Microhardness of polymers (polybutylene terephthalate) PBT
12.40 – 13.00	CL – 16	Martin OVSÍK	Effect of beta low irradiation doses on indentation hardness of glass fiber-filled polypropylene
13.00 – 14.00		Lunch	
Chairperson		Martin OBADAL	
14.00 – 14.30	KL – 8	Lászlo PADANYI	Reprocessing of technological and postconsumer waste from automotive production
14.30 – 14.50	CL – 27	Marek SZOSTAK	Influence of PA6GF25 regrinds contents on the mechanical properties of the oil filter core
14.50 – 15.10	CL – 5	Juma HAYDARY	Thermal decomposition of automotive schredder residue (ASR)
15.10 - 15.30	CL – 28	Ľubomír ŠOOŠ	Development of modular flood barrier concept made from recycled plastics
15.30 – 16.00		Coffee Break	
Chairperson		Jan RODA	
16.00 – 16.30	KL – 4	Takahashi INOUE	A super impact-absorbing Nylon alloy
16.30 – 17.00	KL – 12	Stephan SCHNELL	Akro Plastic - Engineering plastics and blends Akromid RM - Polymer blends based on PA6 with reduced moisture absorption for dimensionally stable applications
17.00 – 17.20	CL – 29	Katarína TOMANOVÁ	Biodegradable polymer blends from renewable resources
17.20 - 17.40	CL – 14	Igor NOVÁK	Pre-treatment of beech wood by radio-frequency discharge plasma
17.40 – 18.45		Poster Session	
19.00 – 23.00		Restaurant Csárda Hotel Bonbon	Conference Gala Evening

Wednesday (April 24, 2013)

Slovak Rubber Conference SRC 2013

Chairperson		Robert SCHUSTER	
9.00 – 9.30	KL – 9	Cristina PRISACARIU	Optimizing mechanical performance of nanostructured polyurethane elastomers and films
9.30 – 9.50	CL – 4	Artur GRISHIN	Plasmaplus® coatings for hybrid polymer-metal parts in automotive industry
9.50 – 10.10	CL – 8	Sang JING	Non-fluid junction technique of peroxide cured NBR
10.10 – 10.30	CL – 10	Janka KUBAČKOVÁ	Stabilizing effect of lignin in rubber blends
10.30– 11.00		Coffee Break	
Chairperson		Miroslav MAŇAS	
11.00 – 11.30	KL – 1	Fabio BACHELLI	Chain stretching and rheological behaviour of cis-BR: role of molecular architecture for tyre application
11.30 – 12.00	KL – 2	John S. DICK	Cure kinetics and variable temperature analysis methodologies for solving factory problems
12.00 – 12.20	CL – 6	Hidetoshi HIRAHARA	Characteristics of functional groups on cured NBR material surfaces
12.20 – 12.40	CL – 25	Radek STOČEK	Future trends in tyre characterization
12.40 – 13.00	CL – 11	Kamil KYAS	Temperature influence of rubber testing samples during its preparation
13.00– 14.00		Lunch	
Chairperson		Ulrich GIESE	
14.00 – 14.30	KL – 6	Toshio NISHI	Behavior of seismic-protection elastomeric isolators at the really big earthquakes
14.30 – 15.00	KL – 3	George DROBNÝ	Automotive applications of thermoplastic elastomers– what´s new
15.00 – 15.20	CL – 17	Rathan RAGHUNATH	A material model for porous elastomers with stress softening phenomenon
15.20 – 15.40	CL – 20	Ivan RUŽIAK	Artificial neural networks prediction of chosen rubber blends physical and mechanical properties
15.40 – 16.00		Coffee Break	
Chairperson		Fabio BACHELLI	
16.00 – 16.30	KL- 13	Josef SMEJKAL	SHARK® - Extruder gear pump system with side feeder for continuous compound blending, injection of re-work material and final mixing
16.30 – 17.00	KL – 10	Franky PUYPE	Chemical side and recombination reactions of non-intentionally and intentionally added chemical substances in rubbers and polymers and their impact on the final product properties regarding the car indoor environment
17.00 – 17.20	CL – 13	Jenifer Mc INTIRE	A comparison of material properties for magnetorheological and conventional elastomers
17.20 - 17.40	CL – 18	Jana REKOŠOVÁ	The influence of soft magnetic fillers on the properties of the magnetopolymer composites
17.40 – 18.45		Poster Session	
19.00 – 23.00		Restaurant Csárda Hotel Bonbon	Conference Gala Evening

Posters

ANDREZEJEWSKI Jacek	SINGLE POLYMER COMPOSITES AS REPLACEMENT FOR GLASS FIBER REINFORCEMENT	P-01
BEDNAŘÍK Martin	STRENGTH OF BONDED JOINTS OF LDPE AFTER SURFACE TREATMENT BETA RADIATION	P-02
BENOVIČ František	BIODEGRADABLE POLYMER BLENDS PET/PLA	P-03
BOČKAJ Ján	MODIFICATION OF PROCESSING AND MECHANICAL PROPERTIES OF STARCH/POLYHYDROXYBUTYRATE BLENDS	P-04
BOTOŠOVÁ Monika	SURFACE MODIFICATION OF NONWOVENS FROM BIODEGRADABLE POLYMERS	P-05
ČADEK Drahomír	THE INFLUENCE OF MOISTURE ON VULCANIZATION CHARACTERISTICS OF NATURAL RUBBER MIXTURES WITH DIFFERENT TYPES OF ACCELERATORS	P-06
DOSOUDIL Rastislav	HIGH-FREQUENCY NOISE REDUCTION IN AUTOMOTIVE ELECTRONICS USING HYBRID FERRITE-POLYMER COMPOSITE MATERIALS	P-07
FOJTL Ladislav	CARBON FIBRE COMPOSITES. PART I: FREQUENCY DEPENDENCE OF THE ELECTRICAL CONDUCTIVITY	P-08
FOJTL Ladislav	CARBON FIBRE COMPOSITES. PART II: TEMPERATURE DEPENDENCE OF THE ELECTRICAL CONDUCTIVITY	P-09
GEMAINER Pavol	EFFICIENCY OF FULLY SCREEN PRINTED DYE SENSITIZED SOLAR CELLS WITH CONDUCTIVE POLYMER PEDOT:PSS COUNTER ELECTRODE	P-10
HORBANOVÁ Ľuba	INFLUENCE OF FIBER PARAMETERS ON THERMOMECHANICAL AND MECHANICAL PROPERTIES OF MODIFIED PP FIBERS	P-11
HRICOVÁ Marcela	SOLID PARTICLES - THEIR EFFECT ON PROPERTIES OF COMPOSITE FIBRES	P-12
CHMIELEWSKA Danuta	INFLUENCE OF FLAME-RETARDANTS ON MECHANICAL PROPERTIES AND THERMAL STABILITY OF EPOXY RESIN COATINGS	P-13
JAKUBOWSKA Paulina	THE INFLUENCE OF MULTIPROCESSING ON MECHANICAL PROPERTIES OF POLYPROPYLENE/ POLYSTYRENE BLENDS OBTAINED FROM CARS	P-14
JANČOVIČOVÁ Viera	SYNTHESIS AND UV CURING OF UNSATURATED POLY(VINYL ALCOHOL) DERIVATIVES	P-15
JANČOVIČOVÁ Viera	THE SORPTION AND BARRIER PROPERTIES OF POLYMER LAYERS BASED ON UNSATURATED POLY(VINYL ALCOHOL) DERIVATIVES	P-16
JAVOŘÍK Jakub	NUMERICAL ANALYSIS AND SHAPE OPTIMIZATION OF RUBBER DIAPHRAGMS	P-17
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KRATINA Ondřej	SIMPLE METHOD FOR CHARACTERIZATION OF RUBBER FRACTURE IN PRACTICE	P-19
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KRATOCHVÍLA Ján	RHEOLOGICAL AND ELECTRICAL PROPERTIES OF COMPOSITES BASED ON LOW DENSITY POLYETHYLENE AND EXPANDED GRAPHITE	P-21
KRUŽELÁK Ján	MAGNETIC AND MECHANICAL PROPERTIES OF MAGNETOACTIVE COMPOSITES BASED ON BR	P-22
MGBEMENA Chinedum	NATURAL RUBBER/ORGANOMODIFIED KAOLIN COMPOSITES: THERMAL STUDIES AND FUTURE APPLICATIONS	P-23
MIHALÍK Michal	THE INFLUENCE OF PLASTICIZERS ON MECHANICAL PROPERTIES OF POLYLACTID ACID	P-24
MIKULA Milan	PHOTOACTIVITY OF NANOPARTICLE OXIDE LAYERS OF DSSC ON PET FOILS	P-25
MIKUŠOVÁ Miroslava	EFFECT OF SELECTED MODIFIERS ON PROCESSING STABILITY OF BIODEGRADABLE POLYMERS	P-26

Thursday (April 25, 2013)

Plastics in Automotive PMA 2013

	Chairperson	Marek SZOSTAK	
9.00 – 9.20	CL - 22	Daniel SANĚTRNÍK	Moldability of highly filled polymers
9.20 – 9.40	CL – 3	Samir BOTROS	Morphology and mechanical properties of PVC/ poly (MMA)-B- poly (N-butyl acrylate)-B-poly (MMA) triblock
9.40 – 10.00	CL – 1	Jacek ANDRZEJEWSKI	The influence of the processing conditions on the structure of the PP/glass fiber composites
10.00 – 10.20	CL – 19	Soňa RUSNÁKOVÁ	Influence of carbon black type on electrical conductivity of FRC in automotive
10.20 – 10.40	CL – 23	Christian SPANDERN	The effect of organophilic clay on tribological properties of graphite/epoxy composites
10.40 – 11.00	Coffee Break		
	Chairperson	Toshio NISHI	
11.00 – 11.30	**Invited Key Lecture KL - 15**	Joachim SUNDER	Universal rheometrical tools to bridge the gap of elastomers characterisation and their processing
11.30 – 12.15	Invited Plenary Lecture ML - 3	Donald PAUL	Polymer blends and nanocomposites for automotive applications
12.15 – 13.00	Invited Plenary Lecture ML - 1	Ulrich GIESE	Aging processes – mechanisms and quantitative characterization concerning polymer structure, antioxidants and crosslinking
13.00 – 13.15	Conference Closing Ceremony		
13.15 – 14.30	Lunch		

Thursday (April 25, 2013)

Slovak Rubber Conference SRC 2013

	Chairperson	George DROBNÝ	
9.00 – 9.40	KL - 5	Gisele Celine JUNG	Pyrolysis and gasification of used tyres
9.40 – 10.00	**CL - 26**	Dalibor SUSA	Composition of tire pyrolysis products
10.00 – 10.20	CL - 9	Ján KRUŽELÁK	Rubber compounds with incorporated rubber crumb
10.20 – 10.40	CL - 30	Rastislav ZÁHORANSKÝ	Recycling of used tires and reuse of rubber granulate
10.40 – 11.00	Coffee Break		
	Chairperson	Toshio NISHI	
11.00 – 11.30	**Invited Key Lecture KL - 15**	Joachim SUNDER	Universal rheometrical tools to bridge the gap of elastomers characterisation and their processing
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13.00 – 13.15	Conference Closing Ceremony		
13.15 – 14.30	Lunch		

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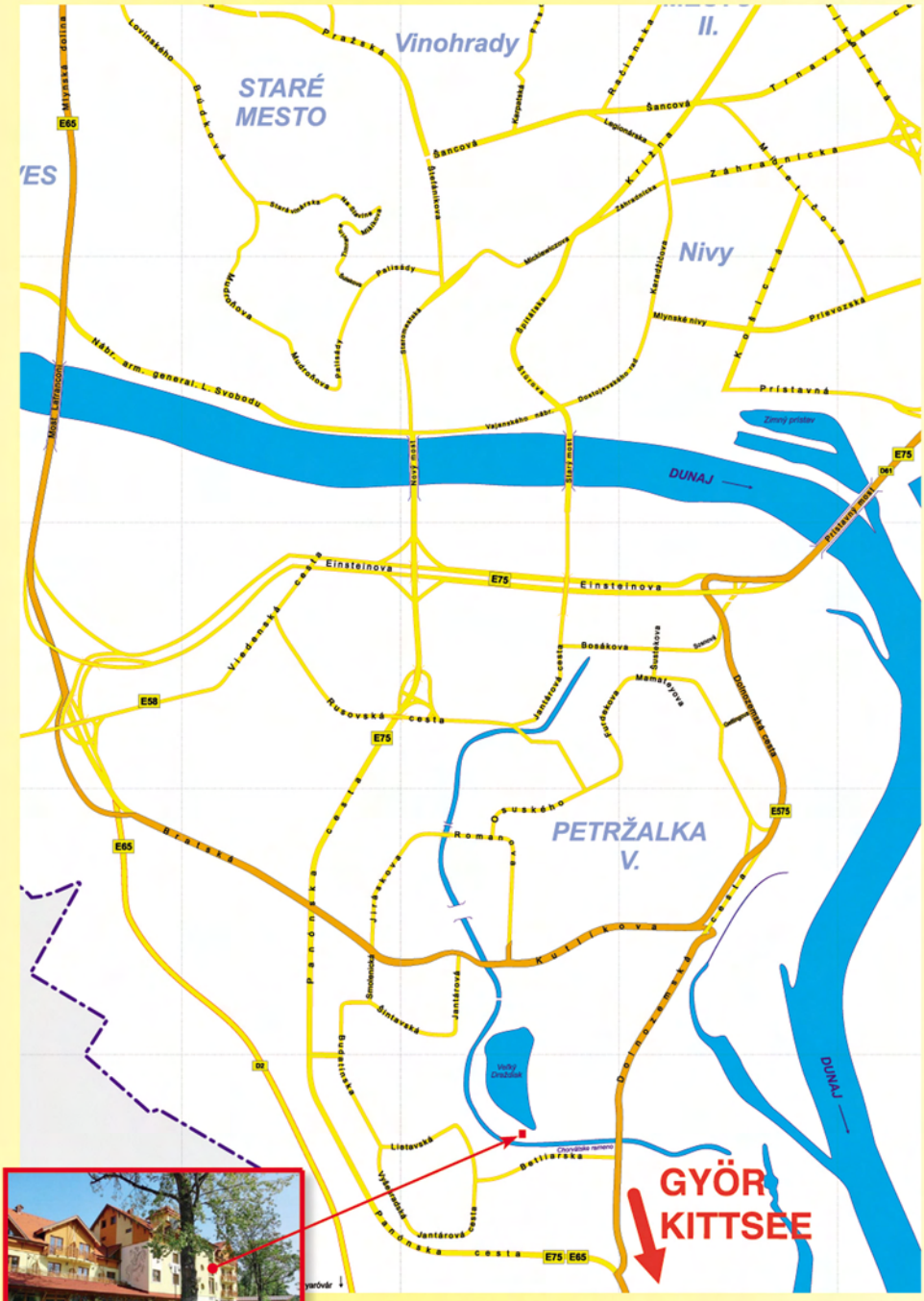

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