



**International Conference
Polymeric Materials
in Automotive PMA 2011
&**



**RubberCon 2011
European Collaborative IRCO Conference**

PROGRAM

LIST OF PARTICIPANTS

April 12 – 14, 2011

**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 Bratislava**

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 ALEXÝ

Ludmila ČERNÁKOVÁ

Zuzana HLOUŠKOVÁ

Ivica JANIGOVÁ

Mária ŠIVOVÁ

INTERNATIONAL ORGANIZING COMMITTEE

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Pieter Jan LEMSTRA, NL

Miroslav MAŇAS, CZ

Toshio NISHI, JP

J. W.M. NOORDERMEER, NL

Hans Joachim RADUSCH, DE

Wanda PARASIEWICZ, PL

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 backside of this booklet)

GPS coordination: GPS: N: 48,10040 E:17,11348

REGISTRATION OFFICE

The registration and information office will be open in Conference Center of hotel Bonbon (conference site):

Monday April 11 from 14.00 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) immediately 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 11 April	Tuesday 12 April	Wednesday 13 April	Thursday 14 April
8.00-9.00		Registration		
9.00-10.00		Opening ceremony	Lectures in sections	Lectures in sections
		Opening Lectures		
10.00-11.00		Coffee Break	Coffee Break	Coffee Break
11.00-12.00		Plenary lectures	Lectures in sections	Plenary lectures
12.00-13.00				
13.00-14.00		Lunch	Lunch	Lunch
14.00-15.00		Lectures - legislation	Lectures in sections	
15.00-16.00		Visiting of International Fair CARPLAST and Car Show AUTOSALON	Coffee Break	
16.00-17.00	Registration (Congress Center Hotel Bonbon)		Lectures in sections	
17.00-18.00			Poster Session	
18.00-19.00	Welcome Party (Congress Center)		Conference Gala Evening (Restaurant Csárda Hotel Bonbon)	
19.00-20.00				
20.00-23.00				



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**Preliminary Program
Monday (April 11, 2011)**

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

Tuesday (April 12, 2011)

	Chairperson	Ivan CHODÁK	
9.30 – 10.00	Opening ceremony		
10.00 – 10.30	Opening Lecture	Eudovít UJHELYI	AUTOMOTIVE INDUSTRY IN SLOVAKIA
10.30 – 10.45	Invited Special Lecture	Flemming Björn BJÖRNSLEV	ENERGIZING CHEMISTRY – LANXESS INNOVATING FOR THE GLOBAL MEGATRENDS
10.45 – 11.15	Coffee Break		
	Chairperson	Voytek S. GUTOWSKI	
11.15 – 12.00	Invited Plenary Lecture ML – 4	Mohini Mohan SAIN	OVERVIEW OF BIOFOAMS FOR LIGHTWEIGHT AUTO PARTS
12.00 – 12.45	Invited Plenary Lecture ML – 2	Hans MAGG Lanxess	SPECIAL PURPOSE RUBBERS REQUIRE SPECIAL CROSS-LINKING SYSTEMS. AN OVERVIEW
12.45 – 14.00	Lunch		
	Chairperson		
14.00 – 14.30	KL – 12	Melanie WIEDEMEIER Lanxess	CHANGES IN ENVIRONMENTAL LEGISLATION BOOST DEMAND FOR ECOLOGICALLY SOUND PRODUCTS
14.30 – 14.50	CL – 25	Sasha RULHOFF	EU TIRE LEGISLATION – HOW SSBR HELPS TO MEET THE CHALLENGE
15.00 – 18.00		INCHEBA EXPO	Visiting of International Trade Fair of Plastics, Rubbers and Composites for Car Industry – CARPLAST, International Trade Fair CHEMISTRY SLOVAKIA and the 21th International Car Show AUTOSALON

Wednesday (April 13, 2011)

Plastics in Automotive PMA 2011

Chairperson		Dušan BAKOŠ	
9.00 – 9.30	KL – 10	Martin OBADAL	POLYMER SCIENCE IN SERVICE OF AUTOMOTIVE INDUSTRY
9.30 – 9.50	CL – 29	Michal STANEK	HOW THE FILLER INFLUENCE THE FLUIDITY OF POLYMER
9.50 – 10.10	CL – 13	Viera KHUNOVÁ	POLYPROPYLENE NANOCOMPOSITES BASED ON HALLOYSITE AND MONTMORILLONITE: THE EFFECT OF DIMALEIMIDE REACTIVE MODIFIERS ON STRUCTURE AND PROPERTIES
10.10 – 10.30	CL – 18	Martin LOVIČ	EXCELLENT PROPERTIES OF SLOVNAFT'S PETROCHEMICALS IMPACT PP COPOLYMER GRADES PRODUCED BY UNIPOL PP TECHNOLOGY
10.30 – 11.00		Coffee Break	
Chairperson		Béla PUKÁNSZKY	
11.00 – 11.30	KL – 13	Ralf ZIMMOL Lanxess	HIGH-PERFORMANCE MATERIALS AND NEW PROCESS SOLUTIONS
11.30 – 12.00	KL – 5	Rex P. HJELM	SHEAR-INDUCED METASTABLE STATES OF END-GRAFTED POLYSTYRENE
12.00 – 12.20	CL – 27	Jiří SAMSONEK	DEFECT ANALYSIS FOR AUTOMOTIVE INDUSTRY – FROM THE ANALYTICAL POINT OF VIEW
12.20 – 12.40	CL – 28	Štěpán ŠANDA	GATE EFFECT ON QUALITY OF INJECTED PART
12.40 – 14.00		Lunch	
Chairperson		Rex P. HJELM	
14.00 – 14.30	KL – 11	Béla PUKÁNSZKY	FACTOR DETERMINING THE PROPERTIES OF PLA/WOOD COMPOSITES; PARTICLE CHARACTERISTICS, INTERACTIONS, REINFORCEMENT
14.30 – 15.00	KL – 1	Pavol ALEXY	BLENDS BASED ON PLA AND PHB WITH IMPROVED PROCESSING AND MECHANICAL PROPERTIES
15.00 – 15.20	CL – 32	Stefán ZEPNIK	EXTERNAL PLASTICIZED CELLULOSE ACETATE FOR PHYSICAL FOAMING
15.20 – 15.40	CL – 24	Károly RENNER	REINFORCEMENT OF RECYCLED BUMPER MATERIAL WITH WOOD FIBERS; STRUCTURE DEFORMATION MECHANISM, PROPERTIES
15.40 – 16.00		Coffee Break	
Chairperson		Martin OBADAL	
16.00 – 16.30	KL – 8	Miroslav MAŇAS	TEMPERATURE STABILITY OF IRRADIATED POLYMERS
16.30 – 16.50	CL – 8	Zdeněk HOLÍK	EFFECT OF IRRADIATION CROSS-LINKING ON MECHANICAL PROPERTIES OF SELECTED TYPES OF POLYMER
16.50 – 17.10	CL – 26	Ivan RUŽIAK	STUDY OF THERMOELASTIC PROPERTIES OF ACRYLATE COMPOSITES IN AUTOMOTIVE INDUSTRY
17.10 – 17.30	CL – 15	Michal KRIŠTOFIČ	FUNCTIONALIZATION OF FIBROUS MATERIAL SURFACES
17.30 – 18.30		Poster Session	
19.00 – 23.00		Restaurant Csárda Hotel Bonbon	Conference Gala Evening

Wednesday (April 13, 2011)

European IRCO Conference RubberCon 2011

Chairperson		Jacques W. M. NOORDERMEER	
9.00 – 9.30	KL – 6	Dietmar HOFF	RHEIN CHEMIE'S OFFER TO MANAGE YOUR RUBBER MAKING PROCESS EFFICIENTLY
9.30 – 9.50	CL – 14	Karol KOSAR	COMPARISON OF DIFFERENT TESTING METHODS IN STABILIZATION OF ELASTOMERS
9.50 – 10.10	CL – 11	Bagdagül KARAAĞAÇ	EFFECTS OF CRYOGENIC TREATMENT ON THE PROPERTIES OF TYRE PRODUCTION WASTES
10.10 – 10.30	CL – 7	Juma HAYDARY	TIRE PYROLYSIS – EFFECT OF PARTICLE SIZE
10.30 – 11.00		Coffee Break	
Chairperson		Hans MAGG	
11.00 – 11.30	Invited Key Lecture	Vratislav DUCHÁČEK	THERMOPLASTIC ELASTOMERS ON THE BASIS OF HDPE/SBR BLENDS
11.30 – 12.00	KL – 3	John S. DICK	NEW RAPID METHOD FOR TESTING THERMOPLASTIC ELASTOMERS
12.00 – 12.20	CL – 12	Christian W. KARL	CHARACTERIZATION OF ELASTOMERS BY WETTING, ROUGHNESS AND CHEMICAL HETEROGENEITY
12.20 – 12.40	CL – 6	Arnaud FAVIER	A SINGLE TESTING INSTRUMENT WITH MULTIPLE TESTING CAPABILITIES FOR RUBBERS AND ELASTOMERS
12.40 – 14.00		Lunch	
Chairperson		Dietmar HOFF	
14.00 – 14.30	KL – 9	Jacques W.M. NOORDERMEER	OPTIMIZATION OF MIXING CONDITIONS FOR SILICA-REINFORCED NATURAL RUBBER COMPOUNDS
14.30 – 15.00	KL – 7	Sybill ILLISCH	DISPERSION AND PHASE SELECTIVE DISTRIBUTION IN CARBON BLACK AND SILICA FILLED RUBBER COMPOUNDS FOR TIRES
15.00 – 15.20	CL – 3	Anke BLUME	KINETICS OF THE SILICA-SILANE REACTION
15.20 – 15.40	CL – 17	Hai Hong LE	PREDICTION OF FILLER LOCALIZATION IN HETEROGENEOUS PHASES OF RUBBER BLENDS
15.40 – 16.00		Coffee Break	
Chairperson		Ulrich GIESE	
16.00 – 16.30	KL – 2	Fabio BACHELLI	PROCESSABILITY AND STATE-OF-MIX OF RUBBER COMPOUNDS: A THOROUGH INVESTIGATION BY EXTENSIONAL RHEOLOGY
16.30 – 16.50	CL – 21	Karol NICIŃSKI	GENERAL PRINCIPLES OF OPERATION AND CLEANING OF VULCANIZATION MOULDS
16.50 – 17.10	CL – 30	Timo STEINKE	MAGNETO ACTIVE ELASTOMERS AND THEIR APPLICATIONS
17.10 – 17.30	CL – 16	Ján KRUŽELÁK	ELASTOMERIC MATERIALS FILLED WITH MAGNETIC HARD FILLERS
17.30 – 18.30		Poster Session	
19.00 – 23.00		Restaurant Csárda Hotel Bonbon	Conference Gala Evening

Posters

BELLUŠOVÁ DENISA	RUBBER FERRITE NANOCOMPOSITES WITH ADAPTIVE PROPERTIES	P-01
BENOVIČ FRANTIŠEK	POLYMER BLENDS BASED ON POLYMERS FROM RENEWABLE RESOURCES	P-02
BÍLEK ONDŘEJ	ABRASIVE RUBBERS WEAR DURING GRINDING	P-03
BÍLEK ONDŘEJ	MANUFACTURING OF THERMOPLASTICS AND CHIP FORMATION	P-04
BOTROS SAMIR H.	IMPROVEMENT OF HOMOGENEITY OF NR/NBR RUBBER BLENDS	P-05
DOSOUDIL RASTISLAV	POLYMER-BASED COMPOSITES FOR MINIMIZATION OF EMI IN AUTOMOBILE ELECTRONIC SYSTEMS	P-06
ĎURFINOVÁ JANA	PLASTICIZERS INFLUENCE ON PHYSICAL-MECHANICAL PROPERTIES AND DMTA OF RUBBER MIXTURES – PART A	P-07
ĎURFINOVÁ JANA	PLASTICIZERS INFLUENCE ON PHYSICAL-MECHANICAL PROPERTIES AND DMTA OF RUBBER MIXTURES – PART B	P-08
ĎURFINOVÁ JANA	EXPERIMENTAL TIRE TEMPERATURE-PRESURE MEASUREMENTS IN REAL DRIVING CONDITIONS – PART A	P-09
FAVIER ARNAUD	A NEW FATIGUE TEST MACHINE FOR ACCURATE CRACK GROWTH ANALYSIS IN RUBBER COMPOUNDS	P-10
GEMEINER PAVOL	UV CURING OF INORGANIC-ORGANIC HYBRID POLYMERS	P-11
GEMEINER PAVOL	PLASMA TREATED THIN TiO ₂ SOL-GEL LAYERS ON PLASTIC FOILS	P-12
HIRAHARA HIDETOSHI	DIRECT ADHESION OF RUBBERS TO VARIOUS RESINS DURING CURING USING MOLECULAR ADHESIVES	P-13
HORBANOVÁ ĽUBA	THERMAL STABILITY OF MODIFIED NANOCOMPOSITE PP FIBERS FOR SILICATE COMPOSITES	P-14
HŘIBOVÁ MARTINA	ELECTRON MICROSCOPE, MORPHOLOGY AND STRUCTURE DETERMINATION OF POLYMERS BY CONFINED THIN FILM TECHNIQUES	P-15
HRICOVÁ MARCELA	RHEOLOGICAL PROPERTIES OF POLYPROPYLENE COMPOSITES	P-16
ILISCH SYBILL	OPTICAL AND ATOMIC FORCE MICROSCOPY ON FILLED RUBBER COMPOUNDS	P-17
JAKUBÍKOVÁ ZUZANA	PREPARATION AND CHARACTERIZATION OF POLYMER BLENDS OF POLYETHYLENE WITH GALACTOMANNAN-PART II	P-18
JANÍK RÓBERT	REMOVAL OF RESORCINOL FROM WATER SOLUTION BY USING M-EXCHANGED MONTMORILLONITE (M = CO, NI)	P-19
KAMESCHOVÁ EVA	METHODS FOR EVALUATION OF SLOVNAFT'S PETROCHEMICALS IMPACT AND THERMOPLASTIC PP COPOLYMER GRADES PROPERTIES ATTRACTIVE TO THE AUTOMOTIVE INDUSTRY	P-20
KELLER MELANIE	INFILTRATION BEHAVIOR OF RUBBER IN SILICA COMPOUNDS	P-21
KOVAČKOVÁ MÁRIA	DEGRADATION OF GROUND RUBBER FROM WASTE TYRES STUDIED BY SOLID STATE NMR	P-22
KRAJČI JURAJ	ELECTRICAL CONDUCTIVITY OF COMPOSITES DURING MECHANICAL DEFORMATION	P-23
KRATOCHVÍLA JÁN	MECHANICAL AND ELECTRICAL PROPERTIES OF COMPOSITES BASED ON LOW DENSITY POLYETHYLENE AND EXPANDED GRAPHITE	P-24
KUBAČKOVÁ JANKA	APPLICATION OF LIGNIN IN NATURAL RUBBER – BASED BLENDS	P-25
KYAS KAMIL	SIMULATION OF RUBBER INJECTION MOLDING PROCESS	P-26
NÓGELLOVÁ ZUZANA	PROPERTIES OF COMPOSITES OF LOW DENSITY POLYETHYLENE FILLED WITH MAGNESIUM HYDROXIDE	P-27
NOVÁK IGOR	ANTIBACTERIAL MODIFICATION OF MEDICAL/GRADE PVC BY ATMOSPHERIC PLASMA AND POLYSACCHARIDES	P-28

NOVÁK IGOR	POLYETHYLENE MEMBRANES HYDROPHILIZATION BY ATMOSPHERIC LOW-TEMPERATURE PLASMA	P-29
ONDRUŠOVÁ DARINA	THE INCREASE IN EFFICIENCY OF CURING SYSTEMS VULCANIZED AT LOW TEMPERATURES	P-30
ORAVCOVÁ ANDREA	THE ATMOSPHERIC PLASMA TREATMENT OF THE POLYMER FILMS	P-31
OSSWALD KATJA	SILICA LOCALIZATION IN NBR/SBR AND NBR/NR COMPOUNDS	P-32
PAJTÁŠOVÁ MARIANA	THE POSSIBILITY OF USING NON-AROMATIC OILS AND DITHIOPHOSPHATES IN RUBBER COMPOUNDS	P-33
PAVLAČKOVÁ MIROSLAVA	MODIFICATION OF PROCESSING AND MECHANICAL PROPERTIES OF POLYLACTID ACID/POLYHYDROXYBUTYRATE BLENDS	P-34
POČAROVSKÝ PETER	THE INFLUENCE OF SURFACE-ACTIVE CHEMICALS ON PHYSICO – MECHANICAL PROPERTIES OF ELASOMERIC MIXTURE WITH UTILIZATION OF LIGNIN AS BIO-FILLER	P-35
POPELKA ANTON	MODIFICATION OF LDPE SURFACE BY POLY(2-ETHYL-2-OXAZOLINE) USING LOW-TEMPERATURE PLASMA	P-36
PRETO JOZEF	ECOLOGICAL ASPECTS OF USED SOFTENERS FOR RUBBER COMPOUNDS	P-37
PUYPE FRANKY	EMISSION TESTING OF NON-METAL VEHICLE MATERIAL ACCORDING TO VDA 278	P-38
REKOŠOVÁ JANA	COMPOSITE MATERIALS WITH MAGNETIC FILLERS AND ELASTOMERIC MATRIX FOR CONSTRUCTION OF INTELLIGENT TYRES	P-39
RUŽIAK IVAN	EXPERIMENTAL TIRE TEMPERATURE – PRESSURE MEASUREMENTS IN REAL DRIVING CONDITIONS – PART B	P-40
RUŽIAK IVAN	STUDY OF THERMOELASTIC PROPERTIES OF ACRYLATE COMPOSITES IN AUTOMOTIVE INDUSTRY – PART II	P-41
RYBA JOZEF	INFLUENCE OF CROSS-SECTION MODIFICATION OF PP FIBRES ON THE END-USED PROPERTIES	P-42
ŠANDA ŠTĚPÁN	COMPARISON OF INJECTION MOLD COOLING SYSTEMS	P-43
SÝKOROVÁ LIBUŠE	CO ₂ LASER MICROMACHINING AND PLASTICS PROPERTIES	P-44
SÝKOROVÁ LIBUŠE	RESEARCH OF THE LASER TECHNOLOGY	P-45
ŠARLAJOVÁ MARTINA	INFLUENCE OF TENSIDES ON PROPERTIES OF RUBBER BLENDS	P-46
ŠČASNÍKOVÁ KATARÍNA	APPLICATION OF INTEGRATED TEXTILES IN THE AUTOMOTIVE INDUSTRY	P-47
ŠUBA OLDŘICH	EVALUATION OF TENSILE TESTS OF SHORT-FIBRE REINFORCED POLYMERS BY MICROSTRUCTURE FEM MODELLING	P-48
ŠUBA OLDŘICH	MODELLING OF TRANSIENT THERMAL STRESS IN POLYMER LAYERED WALLS	P-49
TOMANOVÁ KATARÍNA	POLYMER BLENDS OF POLYETHYLENE TEREPHTHALATE AND POLYLACTIC ACID	P-50
UJHELYIOVÁ ANNA	THE PHYSICAL MODIFICATION OF PP FIBRES FOR THE TECHNICAL APPLICATIONS	P-51
VALENTIN MARIAN	AN IMPROVEMENT OF HYDROPHOBICITY OF PES AND PES/ COTTON FABRICS USING SOL-GEL TECHNOLOGY	P-52
VENCELOVÁ PETRONELA	CHANGE OF WETTABILITY OF WOOL TEXTILE SURFACES AFTER PLASMA TREATMENT	P-53
WAGNER PIOTR	SYNTHESIS AND CHARACTERISTICS OF MAGNETIC CORE-SHELL NANOPARTICLES FOR ANISOTROPIC COMPOSITES	P-54
WOLFOVÁ MAGDALÉNA	TEXTILE MATERIALS MODIFIED WITH CYCLODEXTRINS	P-55
ŽÍDEK JAN	SPACE ANALYSIS OF THE MODEL STRUCTURE OF POLYMERS FILLED BY SPHERICAL PARTICLES	P-56

Thursday (April 14, 2011)

Plastics in Automotive PMA 2011

	Chairperson	Miroslav MAŇAS	
9.00 – 9.20	CL – 19	Jens LÜBBEHÜSEN	NEW ACHIEVEMENTS AND EVOLUTIONS FOR THE USE OF HIGH-RESOLUTION COMPUTED TOMOGRAPHY FOR THE FAILURE ANALYSIS AND METROLOGY OF POLYMER SPECIMEN AND PRODUCTS
9.20 – 9.40	CL – 23	Franky PUYPE	MASS SPECTROMETRIC ANALYSIS OF POLYMERIC ADDITIVES IN POLYMER EXTRACTS BY PYROLYSIS-GC-MS
9.40 – 10.00	CL – 31	Marek SZOSTAK	RECYCLING OF PP/EPDM/TALC CAR BUMPERS
9.50 – 10.20	CL – 20	Martin NAGY	A POSSIBILITY OF USING THE FLOTATION PROCESS TO SEPARATE SOLID POLYMERS
10.20 – 10.40	CL – 9	Romana LAMBOROVÁ	POSSIBLE METHOD OF RECYCLATION OF SELECTED TYPES OF CROSSLINKED POLYMERS
10.40 – 11.10	Coffee Break		
	Chairperson	Ivan CHODÁK	
11.10 – 11.55	Invited Plenary Lecture KL – 4	Ulrich GIESE	AGING MECHANISMS OF ELASTOMERS AND EFFECTIVENESS OF ANTIOXIDANTS
11.55 – 12.40	Invited Plenary Lecture ML – 1	Voytek S. GUTOWSKI	CURRENT AND NEXT GENERATION IN-MOULD COATINGS FOR AUTOMOTIVE EXTERIOR TRIM
12.40 – 12.55	Conference Closing Ceremony		
12.55 – 14.00	Lunch		

European IRCO Conference RubberCon 2011

	Chairperson	Fabio BACHELLI	
9.00 – 9.20	CL – 4	David MAŇAS	WEAR OF OFF – ROAD TIRES EVALUATION
9.20 – 9.40	CL – 22	Vladimír PATA	VISUALIZATION OF THE WEAR TEST OF RUBBER MATERIALS
9.40 – 10.00	CL – 10	Jakub JAVORIK	THE TESTING OF HYPERELASTIC PROPERTIES OF THE RUBBER MATERIALS
10.00 – 10.20	CL – 33	Ivan HUDEC	PYROLYSIS OF RUBBER WASTE
10.20 – 10.40	CL – 34	Ivan CHODÁK	ELECTRICAL CONDUCTIVITY CHANGES DURING MECHANICAL DEFORMATION OF CB FILLED RUBBERS
10.40 – 11.10	Coffee Break		
	Chairperson	Ivan CHODÁK	
11.10 – 11.55	Invited Plenary Lecture KL-4	Ulrich GIESE	AGING MECHANISMS OF ELASTOMERS AND EFFECTIVENESS OF ANTIOXIDANTS
11.55 – 12.40	Invited Plenary Lecture ML- 1	Voytek S. GUTOWSKI	CURRENT AND NEXT GENERATION IN-MOULD COATINGS FOR AUTOMOTIVE EXTERIOR TRIM
12.40 – 12.55	Conference Closing Ceremony		
12.55 – 14.00	Lunch		

LIST OF PARTICIPANTS OF PMA 2011 & RUBBER CON 2011

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