

2006

THE 18th INTERNATIONAL

# **SLOVAK RUBBER CONFERENCE**

Púchov

MAY 24 - 25, 2006 MATADOR BUSINESS CENTRE Púchov, SLOVAK REPUBLIC





### **INTERNATIONAL RUBBER CONFERENCE SRC 2006**

Traditionally every year, the international scientific conference on rubber is organized by the Rubber Research Institute of Matador, Púchov which has won recognition in wide circles of the professional rubber public since it has been established.

Let me present few figures about last event. The 17th international conference SRC 2005 was held for the first time together with the international conference Polymeric Materials in Automotive, PMA 2005 in Bratislave which was organized by the Slovak Technical University, the Slovak Academy of Sciences and the joint stock company Matador Púchov. 166 participants from 22 countries including Slovakia took part in the conference

The professional programme consisted of 86 professional papers including 27 poster contributions covering the whole life cycle of rubber products starting from presentations of new information in the field of raw-materials, basic development, application research, testing through industrial technologies up to utility properties, quality control and ecology. And, as the car industry is one of the most important purchasers of our products, there was also an opportunity for the conference participants to become acquainted with novelties and new trends in the car industry from the view of the car experts themselves. The professional contributions were published in the international professional journals Chemické listy (Chemical Sheets) and Polymers for Advanced Technologies.

This year, the 18th SLOVAK RUBBER CONFERENCE – SRC 2006 will be held. The conference will be sponsored by the Ministry of Economy of the Slovak Republic, by the President and Vice-Chairman of the Board of Directors of Matador a.s., Púchov, Doc. Ing. Štefan Rosina, PhD. and by the Chairman of the Supervisory Board of Matador Holding, a.s., Púchov, Ing. Štefan Rosina, Dr.h.c.

### **Dear Fellow-Workers and Colleagues,**

We are pleased to invite you, on behalf of the preparatory committee, to the 18th International Rubber Conference – SRC 2006 which will be held on May 24-25, 2006 in the congress facilities of Matador Business Centre at Púchov.

Ing. Miroslav Klabník
Director of Rubber Research Institute
and the Preparatory Committee of SRC 2006

### "SLOVAK RUBBER CONFERENCE 2006 - SRC 2006"

SRC 2006 - the 18<sup>th</sup> international conference will be held under the sponsorship of the Ministry of Economy of the Slovak Republic, the President and Vice-President of the Board of Directors of Matador, a.s., Púchov, Prof. Ing. Štefan ROSINA, PhD. and the Chairman of the Supervisory Board of Matador Holding, a.s., Púchov, Ing. Štefan Rosina, Dr.h.c.

### **PLACE and DATE:**

Conference centre of MATADOR BUSINESS CENTRE, Púchov

May 24 - 25, 2006

**MAIN TOPICS:** 

- TRENDS IN THE RUBBER INDUSTRY
- CHEMISM AND VULCANIZATION
- RECYCLING
- REINFORCING MATERIALS
- TESTING AND CERTIFICATION

### FOR FURTHER INFORMATION ON SRC 2006 PLEASE CONTACT:

### **PROFESSIONAL GUARANTOR:**

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# **PROFESSIONAL GUARANTORS**

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Faculty of Industrial Technologies in Púchov Trenčín University of A. Dubček in Trenčín

### Ondrej Nemčok

Dean of the Faculty of Industrial Technologies in Púchov Trenčín University of A. Dubček in Trenčín

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### Miroslay Chromek

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### **PREPARATORY COMMITTEE**

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### Anton Karvaš

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### Juraj Ižvolt

Matador a.s., Púchov

### Mária Chupeková

Matador a.s., Púchov Rubber Research Institute

### **PROGRAMME COMMITTEE**

- Š. Luby Chairman of the Slovak Academy of Sciences, Bratislava
- J. Velebný Director of the Industry of the Ministry of Economy of the Slovak Republic
- R. Szabó Director of the Department of National Science Technical Policy of the Ministry of Education of the Slovak Republic
- J. Hnatič General Director of the Section of Road Policy, Ministry of Transport, Posts and Telecommunications of the Slovak Republic
- R. Karlubík President of the Union of Chemical and Pharmaceutical Industries
- Š. Rosina President and Vice-Chairman of the Board of Directors of Matador, Púchov
- B. Sluka General Director of Matador a.s., Púchov
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- Š. Prekop General Director of Matador-Omskshina, a.s., Omsk, Russia

- L. Velič General Director of MATC, Addis Abeba, Ethiopia
- P. Sehnal General Director of JV Continental-Matador, s.r.o., Púchov
- J. Rychlý Director of the Institute of Polymers of the Slovak Academy of Sciences, Bratislava
- P. Duchovič General Director of VIPO, a.s., Partizánske
- D. Marasová Head of the Department of Logistics and Production Systems, Faculty BERG, Technical University, Košice
- D. Budzák General Director of VÚCHV, a.s., Svit I. Hoza - Dean of the Faculty of Technology, University of T. Baťa, Zlín, Czech Republic
- M. Jambrich Slovak Society of Industrial Chemistry, Bratislava
- P. Palček Department of Materials Engineering, Faculty of Mechanical Engineering, University of Žilina

### **SCIENTIFIC COMMITTEE**

The contributions of the scientific programme have been reviewed and selected by the scientific committee consisting of the following members:

I. Hoza - Dean of the Faculty of Technology, University of T. Baťa, Zlín, Czech Republic

M. Szostak - Institute of Materials Technology, Poznaň University of Technology, Poznaň, Poland

P. Koštial - Director of the Institute of Material and Technological Research of the Faculty of Industrial Technologies in Púchov, Trenčín University of A. Dubček in Trenčín, Slovak Republic V. Macho, - Faculty of Industrial Technologies in Púchov, Trenčín University of A. Dubček in Trenčín, Slovak Republic

I. Hudec - Institute of Polymer Materials, Department of Plastics and Rubber, Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic

H. J. Radusch - Institute of Materials Science, Martin Luther University, Halle-Wittenberg, Germany

### **SRC 2006 TIME SCHEDULE**

### WEDNESDAY, 24th MAY 2006

7.30 – 8.45 Registration of participants at MATADOR BUSINESS CENTRE

### **Congress Hall**

8.45 Opening of SRC 2006
9.05 - 9.45 Introductory addresses
9.45 - 10.15 Break - coffee
10.15 - 12.35 Plenary papers
12.35 - 14.00 Lunch
14.00 - 18.00 • Professional discussion sessions
• VERT - Virtual Education in
Rubber Technology
• The 2<sup>nd</sup> Driving Skill Competition
• Visiting the Wheel museum in the area of ETOP Trading, a.s.
18.00 - 18.20 Poster discussion
18.30 - 22.00 Evening Reception for the conference participants

**Púchov** 

in MATADOR BUSINESS CENTRE.

### THURSDAY, 25th MAY 2006

8.20 Opening

### Conference room No.1

8.30 – 10.30 Professional papers 10.30 – 10.45 Break - coffee 10.45 – 13.00 Professional papers 13.15 – 13.25 Closing of SRC 2006 13.25 Lunch

### **Conference room No.2**

8.30 – 10.30 Professional papers 10.30 – 10.45 Break - coffee 10.45 – 13.15 Professional papers

### **PROFESSIONAL PROGRAMME OF SRC 2006**

### WEDNESDAY 24TH MAY 2006

### **PLENARY PAPERS** (10.15 - 12.35)

### 10.15 - 10.35 Klabník M.

Rubber Research Institute, Matador a.s., Slovak Republic

Tyre-Vehicle Interaction as an Effective Tool of Development and Innovations

### 10.35 - 10.55 Hasse A.

Degussa A.G., Köln, Germany VO Si 363 – A New Silane for the Rubber Industry

### 10.55 - 11.15 Hanhi K., Poikelispää M.

Tampere University of Technology, Tampere, Finland

Information Supplying an Learning in Rubber **Technology** 

### 11.15 - 11.35 Datta R.

Teijin Twaron BV, Holland Introducing SULFRON 3000: A High Performance Rubber Ingredient for the Tire Industry

### 11.35 - 11.55 Lukáč V.

ETOP TRADING, a.s., Púchov, Slovak Republic New Trends in the Disposal of Used Tyres

### 11.55 - 12.15 Dierkes W.

University Twente, Enschede, Holland Silica and Rubber - a Challenging System

### 12.15 - 12.35 Le Hong Hai, Ilisch S., Radusch H.-J.

Martin Luther University, Hale Wittenberg, Germany

Correlation between Morphology and Properties of Carbon Black Filled Rubber Blends

> **POSTER SESSION** (18.00 - 18.20)

### Konečný P.

University of T. Bati, Zlín, Czech Republic Measuring the Gas Permeability of Rubbers

### Uhlár J., Andrušková V.

Research Institute of Chemical Technology, Bratislava in Duslo a.s., Šaľa, Slovak Republic DFA and its Derivatives as Intermediate Products

of the Preparation of Some Rubber Chemicals

### Široký J.1, Hudec I.1, Ondáš M.2, Šuriová V.2, Jaššo M.1

<sup>1</sup> Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic

<sup>2</sup> Rubber Research Institute, Matador a.s., Púchov, Slovak Republic

The Influence of Plasma on Polyamide Cords-to-Rubber Adhesion

### Pajtášová M.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Rubber-to-Metal Adhesion Promoters on the Base of Carboxylates

### Feranc J.1, Kramárová Z.1, Bugaj P.1, Alexy P.1, Šuri P.2, Karvaš A.2

<sup>1</sup>Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic

<sup>2</sup> Rubber Research Institute, Matador a.s., Púchov, Slovak Republic

Study of Influence of Starch-Silica-Collagen Hydrolysate Combination on Properties of Rubber Rlends

### Bugaj P.1, Kramárová Z.1, Feranc J.1, Alexy P.1, Hudec I.1, Šuri P.2, Karvaš A.2, Chodák I.3

<sup>1</sup> Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic

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<sup>3</sup> SAV, Institute of Polymers, Bratislava, Slovak Republic

Influence of Composition and Concentration of Plasticized Starch on Properties of Rubber Blends

### Ondrušová D.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic The Curative Interactions in the Presence of Cobalt (II) Octadecanoate

### Fedorová E.<sup>1</sup>, Štolovská M.<sup>2</sup>, Harišová K.<sup>2</sup>, Špirk E.<sup>2</sup>, Šuri P.<sup>1</sup>

- <sup>1</sup> Rubber Research Institute, Matador a.s., Púchov, Slovak Republic
- <sup>2</sup> Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Evaluation of Processing Aids Efficiency

### Mikulica P.<sup>1</sup>, Kolieska R.<sup>2</sup>, Moravčík R.<sup>3</sup>, Špirk E.<sup>2</sup>, Kaprálik M.<sup>2</sup>

- <sup>1</sup> Rubber Research Institute, Matador a.s., Púchov, Slovak Republic
- Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic
   Vipotest, Púchov, Slovak Republic

Rubber Compounds Elasticity Modification in Extruding Process

### THURSDAY 25TH MAY 2006

### **CONFERENCE ROOM No. 1**

# TRENDS IN THE RUBBER INDUSTRY (8.30 – 9.15)

### 8.30 - 8.45 Kemper A.

TAG Chemicals GmbH, Bischofsheim, Germany Rimlube – The New Generation of Non Contaminating Lubricants for Forcing Machines

### 8.45 – 9.00 Kosár K.¹, Balko J.¹, Lehocký P.¹, Végh Zs.¹, Fedorová E.², Matej M.²

- <sup>1</sup> Research Institute of Chemical Technology, Bratislava, Slovak Republic
- <sup>2</sup> Rubber Research Institute, Matador a.s, Púchov, Slovak Republic

The Use of Antireversible Agents in the Tyre Industry

### 9.00 – 9.15 Humplík A., Saewe M., Issel Hans-Martin

Rhein Chemie Rheinau GmbH, Germany
Newly Designed High Performance Processing
Promoters for Silica Tire Treads

### CHEMISM AND VULCANIZATION (9.15 – 12.30)

9.15 – 9.30 Kramárová Z.¹, Alexy P.¹, Ďuračka M.², Špirk E.¹, Šuri P.³, Karvaš A.³, Chodák I.⁴

- <sup>1</sup> Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic
- <sup>2</sup> Research Institute of Chemical Technology, Bratislava, Slovak Republic
- <sup>3</sup> Rubber Research Institute, Matador a.s., Púchov, Slovak Republic
- <sup>4</sup> Slovak Academy of Sciences, Institute of Polymers, Bratislava, Slovak Republic

The Role of Chemical and Physical Properties of Particle Fillers in Reinforcement of Rubber Blends

### 9.30 – 9.45 Le Hong, Hai, Ilisch S., Tiwari M., Wutzler A., Radusch H.-J.

Martin Luther university, Hale Wittenberg, Germany

Mechanical and electrically conductive properties of Nanocomposites on the basis of dynamically vulcanized thermoplastic/rubber blends

### 9.45 – 10.00 Ovcharov Valery, I., Kachkurkina I. A., Okbtima O.V.

USCHTU, Dnepropetrovsk, Ukraine

Application of Polymer-Inorganic Composites
in Vulcanization and Modification Processes of
Elastomers and Products

### 10.00 – 10.15 Mušinský M., Wilczynski O., Špaček J.

University of T. Bati, Zlín, Czech Republic Cloisite 15A as the Filler for Rubber Compounds Based on SBR

### 10.15 – 10.30 Ürögiová E.¹, Hudec I.¹, Bellušová D.¹, Šuri P.²

- <sup>1</sup> Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic
- <sup>2</sup> Rubber Research Institute, Matador a.s., Púchov, Slovak Republic

Characterization of Ferromagnetic Rubber Blends

### 10.45 – 11.00 Voldánová J., Maláč J.

Mitas a.s., Zlín, Czech Republic Influence of Elastomer on the Properties of Compounds Containing Mineral Fillers

### 11.00 – 11.15 Wilczynski O., Mušinský M., Špaček J., Slavík R.

University of T. Bati, Zlín, Czech Republic
The Use of Silanes in Rubber Compouds on the
Base of "Polybutadiene – Organoclay"

### 11.15 - 11.30 Macho V.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Influence of a New Curing Agent on the Characteristics of Sulphur Vulcanization and Physical-Mechanical Properties of Vulcanizates

### 11.30 – 11.45 Králik M., Kosár K., Štefancová R.

Research Institute of Chemical Technology, Bratislava, Slovak Republic

Recent Data about a Role of Rubber Zinc Additives in Sulfur Vulcanization

### 11.45 - 12.00 Černý M.

University of T. Bati, Zlín, Czech Republic Reinforcement of Polymer Systems

### 12.00 – 12.15 Bellušová D., Kyselá G., Ürögiová E., Hudec I.

Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic

Study of Structural Network of Crosslinked Elastomeric Magnetic Composites

### 12.15 – 12.30 Konečný P.

University of T. Bati, Zlín, Czech Republic Gas Permeability of Rubbers

## **RECYCLING** (12.30 – 13.00)

### 12.30 – 12.45 Juma M.<sup>1</sup>, Koreňová Z.<sup>1</sup>, Bafrnec M.<sup>1</sup>, Toman J.<sup>2</sup>

<sup>1</sup> Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic

<sup>2</sup> Rubber Research Institute, Matador a.s., Pú-

chov, Slovak Republic

Pyrolysis of Waste Tire – Characterization of Producer Carbon Blacks

### 12.45 - 13.00 Macho V.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Problems and Prospectives of the Use of Devulcanized Rubber Crumb

### **CONFERENCE ROOM No. 2**

### REINFORCING MATERIALS (8.30 – 9.15)

### 8.30 – 8.45 Gažo P., Šuriová V.

Rubber Research Institute, Matador a.s., Púchov, Slovak Republic

The Influence of Heat Stress on Physical-Mechanical Properties of Textile Reinforcing Materials

### 8.45 – 9.00 Nemčeková K., Rudinská G.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Thermal Properties of Textile Fibers

### 9.00 – 9.15 Jambrich M.¹, Starigazda J.², Sýkorová J.¹, Cuninková J.¹, Lániová A.¹

<sup>1</sup>Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic <sup>2</sup>VÚCHV a.s., Svit, Slovak Republic

Change in the Structure and Properties of Fibrous Reinforcing Materials in Dependence on the Environment Temperature

# TESTING AND CERTIFICATION (9.15 – 13.15)

### 9.15 – 9.30 Maláč J., Konečný P., Voldánová J., Šimoník J.

University of T. Bati, Zlín, Czech Republic Characterization of the Elastomer Tensile Behaviour in the Area of Smaller Deformations

### 9.30 - 9.45 De Vries Edwin

MSC Software Limited, Great Britain

Simulation of Tyre Performance on Snow Using

Dytran

### 9.45 – 10.00 Beneš J., Hrubec F.

ÚSMD, Prague, Czech Republic

Measurement of Truck Tyre Adhesion Properties

### 10.00 - 10.15 Zvardoň B., Navrátil R.

MCAE Systems, s.r.o., Czech Republic
Using the ATOS Optical Digitizing for Analysing
the Tyre Mould Deformation Initiated by Heat
Loading

### 10.15 - 10.30 Backo V., Pažitný R.

Rubber Research Institute, Matador a.s., Púchov, Slovak Republic

Utilization of the TRISCAN System under the Conditions of the Rubber Research Institute

### 10.45 - 11.00 Bafrnec M.

Faculty of Chemical and Food Technology, Slovak Technical University, Bratislava, Slovak Republic

Physical Data of Rubber Materials for Simulation of Tire Curing

### 11.00 - 11.15 Mokryšová M.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Static and Dynamic Charakteristics of Rubber Blends and Their Influence on a Tyre Dynamic Properties

### 11.15 - 11.30 Koštial P.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Complex Temperature – Pressure Analyzer for Passenger Car Tyres

### 11.30 - 11.45 Dlabaja R.

Institute for Testing and Certification, a.s., Zlín, Czech Republic

New Possibilities of Testing Rubber and Rubber Products in ATC

### 11.45 - 12.00 Kučerová J.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Electric Conductivity of Rubber Blends

### 12.00 - 12.15 Hajská H.

Vipotest, s.r.o., Púchov, Slovak Republic Tracing Separations in Commercial Vehicle Tyres

### 12.15 - 12.30 Ružiak I.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Contactless Measurement of Rubber Blends

### 12.30 - 12.45 Kopal I.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic
Thermal Data Software Treatment of Infrared
Line Cameras for Industrial Temperature Measurements

### 12.45 - 13.00 Švecová Z.

Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic Failure Measurements of Rubber Compounds

# 13.00 – 13.15 Moravčík R.¹, Harišová K.², Plevák Z.³, Špirk E.²

<sup>1</sup> Vipotest, s.r.o., Púchov, Slovak Republic

<sup>2</sup> Faculty of Industrial Technologies of Trenčín University A. Dubček, Púchov, Slovak Republic

<sup>3</sup> Rubber Research Institute, Matador a.s., Púchov, Slovak Republic

Evaluation of Dispersion Degree of Precipitated Silica in Rubber Matrix



### **GENERAL INFORMATION AND INSTRUCTIONS FOR SRC 2006**

- 1. The conference languages will be Slovak, Czech and English with simultaneous translation.
- 2. The registration fee will be 380,- EUR. It will cover the Proceedings (incl. CD ROM), food and refreshment costs during the conference.

On payment by money transfer order, every participant must submint a confirmation of the payment. Without the confirmation will not be recognized. Term of payment by money transfer order is **not later than 15**th **May 2006**. After this date, the conference fee is required to be paid in cash or by credit card at the registration desk.

3. There will be a possibility during the conference to present your company through advertising materials, displays and by "the company's day". These services are to be ordered in advance not later than 21st April 2006 in writing. The exhibition space will be provided free of charge. The preliminary price for posters on panels will be 100,- EUR/panel (height 2 m. width 1 m).

Contact address:

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5. Conditions and Possibilities of Accommodation for the Conference Participants:

HOTEL	WILI***	NEPTÚN***	Sanatorium MATADOR**
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- When booking, it is necessary to inform the hotel reception clerk that you are a participant of SRC 2006.
- Accommodation is booked individually by the conference participant and paid at the hotel reception desk.
- Credit cards VISA, MASTER CARD can be used to pay the hotels.
- Accommodation possibilities are given by the hotel capacity and the time of the accommodation booking.
- The organizing committee does not guarantee the accommodation for those participants who failed to secure the accommodation in advance.

### THE MAP OF PUCHOV



# BINDING REGISTRATION FORM FOR A PARTICIPANT IN THE 18<sup>th</sup> International Conference "SRC 2006"

Please complete and fax or mail to: Matador a.s. Ing. Šuriová V. Ul. T. Vansovej 1054 020 01 Púchov SLOVAK REPUBLIC fax No.: +421 42 461 2408

Not later than: 19th May 2006

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type approval according to ECE Regulations and EU Directives:

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 calibration of measuring instruments and equipment in laboratory and at customer's premises:

length, temperature, pressure, electrical properties, relative humidity, time and rubber hardness



 services and consultancy in the field of testing and analysis of:

raw materials and chemicals for the rubber industry, semi-products, rubber compounds, reinforcing materials, finished rubber products, tyres, footwear, leather and furs, floor coverings and personal protective devices for protection of legs and feet, hands arm and body according to the national and international standards and customers' individual requirements

additional services for customers:

declaration of conformity techniques

declaration of conformity, technical documentation, expert opinions, implementation of the quality system in production plants

### **Contact:**

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- rubber compounds development
- tread pattern designing
- curing mould designing
- bladers development
- know-how transfer
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