

12th EAEC European
Automotive Congress
Bratislava

**EAEC 2009**

June 29 to July 1, 2009

Bratislava, Slovakia

Europe In The Second Century Of Auto-Mobility

PRELIMINARY PROGRAMME



ORGANIZED BY



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Matador Group has an ambition to become one of the leaders on the CE automotive market as a system supplier of automotive components. At present the main activities of MATADOR GROUP branches are the production of pressed and welded components, constructional and designing activities, projects and solutions within the area of automatization and robotization and the manufacture of chunk custom products.

MAIN MEDIA PARTNER



MEDIA PARTNERS



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		Monday, June 29					Tuesday, June 30					Wednesday, July 01				
		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5
8:00																
8:30																
9:00		OPENING SESSION					P05	P09	V05	V09	P13	P15	V15	V13	P17	T03
9:30		Coffee Break														
10:00		PLENARY SESSION					10.15 --> Opening of ASCEE 2009					Coffee Break				
10:30		LUNCH					P06	P10	V06	V10	P14	P16	V16	V14	P18	T04
11:00		Congress Exposition Visit					LUNCH					Coffee Break				
11:30																
12:00																
12:30		LUNCH										CLOSING CEREMONY				
13:00		Congress Exposition Visit					LUNCH					FAREWELL LUNCH				
13:30												ASCEE VISIT				
14:00												ASCEE VISIT				
14:30		P01	P03	V01	V03	FISITA EDU CONF	P07	P11	V07	V11	T01					
15:00		Coffee Break														
15:30		P02	P04	V02	V04		P08	P12	V08	V12	T02					
16:00		Coffee Break														
16:30		CONGRESS RECEPTION					EAEC GALA DINNER									
17:00		CONGRESS RECEPTION					EAEC GALA DINNER									
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18:00		ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5										
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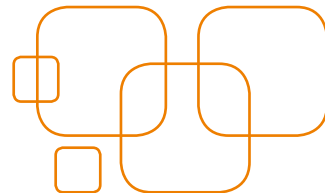
Legend:
P01-P18 POWERTRAINS
V01-V16 VEHICLES
T01_T04 SYSTEMS

		Wednesday, July 01					Thursday, July 02					Friday, July 03				
		TATRA HOTEL					EAEC_COUNCIL MEETING					POST CONGRESS VISITS				
		TATRA HOTEL					COMMITTEE_01					COMMITTEE_02				
8:00		TATRA HOTEL					COMMITTEE_01					COMMITTEE_02				
8:30		TATRA HOTEL					COMMITTEE_01					COMMITTEE_02				
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Legend:
P01-P18 POWERTRAINS
V01-V16 VEHICLES
T01_T04 SYSTEMS



WELCOME SPEECH



It is a great honour for the Slovak Republic and Central Europe that on 29th June-1st July 2009, the capital of the Slovak Republic, Bratislava, will host the important European Automotive Congress second time (before 2001), organised under auspices of FISITA for twenty four national societies of automotive engineers, members of the European Automobile Engineers Cooperation (EAEC).

In recent years, the countries of Central Europe have become an important area for the concentration and evolution of transportation techniques, manufacture of components, parts, aggregates, and modules. The automotive industry (AI) and specifically suppliers market is one of the fastest developing sectors in Central Europe (CE). Due to the world – class supply base, excellent production plants and lines, high intellectual capital and ability to readily achieve European levels of productivity, the continent can more competitively satisfy the needs of customer than any ever before in Europe.

In Central Europe, we observe remarkable effects for societies from the aspect of production and usage, an increase in production volume of over 100% in the last decade and from 30% to 80% increase in the fleet of cars.

During this decade which will take two more years, we expect great changes in the automotive world in utilising of information technology and almost revolutionary changes in materials and minimisation of materials and energy consumption. The automobile is a part of the living and working environment of a person, and the greatest changes will be linked with production systems and the roles of people.

The Congress with the theme “Europe in The Second Century of Auto-Mobility” will consist of 120 presentations in three groups:

Topic P: Powertrain Efficiency

Topic V: Vehicles for the Next Decade

Topic T: Production and Transportation Systems

The biennial EAEC Congresses provide excellent opportunities for automotive experts to present the latest results and to exchange information in the field of the automotive and related industries. In the Congress Area, the participants will also be able to see some of the products as results of efforts by final developers, producers, and suppliers. We organise also FISITA EDUCATION CONFERENCE and workshop AUTODAY2009 for top managers, who will meet the members of FISITA Council there.

Bratislava is a beautiful place and renowned for hosting foreign guests. It lies among the Carpathian Mountains, on the river Danube, has good transport connections (Bratislava and Vienna airports), and also has various hotels, museums, music concerts, and modern and Gothic monuments.

On behalf of the organisation committee, as President of the Slovak Society of Automotive Engineers (SAITS) and Chairman of the EAEC Automotive Congress 2009, I would like to invite you to the events taking place in Bratislava this June.

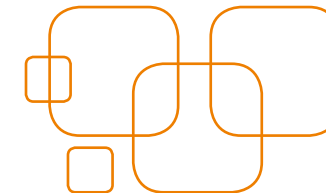
Ján Lešínský

SAITS President

EAEC Automotive Congress Bratislava 2009 Chairman



PRESIDENTIAL ADDRESS



DEAR PARTICIPANTS OF THE EAEC 2009 EUROPEAN CONGRESS,

EAEC was founded in 1985 as a cooperation of five European FISITA Member Societies, which has increased in the meantime to a family of 24 societies in the core of FISITA.

Since 1987, the national EAEC societies have organized regional automotive congresses in the “uneven” years between the International FISITA World Congresses. Leading experts from industry, research and academia present the latest technical results. Persons from political institutions give strategic directions of the European and global industry in order to meet the growing demands of mobility, safety, environmental protection and saving of energy.

We cannot ignore and we have to face the fact that the world economy and thus the auto world is now in a crisis. But that crisis does not have its origin in the automotive industry.

In Europe, we have numerous automotive events like congresses, conferences, symposia and workshops. The main event of this year is the EAEC 2009 Congress. The great number of automotive events in Europe and this Congress are, despite of the crisis, positive signals for the future of the European automotive community, which is well-prepared for the time after “tomorrow”.

Europe is not only a continent. The 46 states are in a process of unification based on a unique culture and history. EAEC supports the European automotive industry via the national Societies to continue to be an important factor in the global market. We have to be aware that the most important impacts in automotive technology were initiated in Europe, for example, the main propulsion systems, the Otto and Diesel engines are European developments. The first passenger cars and trucks were produced in Europe.

Well-functioning passenger and freight links are vital for European undertakings and citizens. Automobiles are not only passenger cars, but also trucks, buses and tractors or other self-propelled vehicles on and off the road. There is and will be a need for all kinds of automobiles.

I wish the organizers and all the participants a successful meeting, many interesting presentations and fruitful discussions.

The motto for this congress and the automotive future should be:
Keeping Europe Moving!

Brigadier ret. Prof. Günter Hohl

EAEC President

FISITA Vice President Europe

INTRODUCING FISITA

FISITA is an independent world body representing over 153,000 automotive engineers belonging to national automotive societies in 38 countries. FISITA was founded in 1948 to provide a global forum for the exchange of technical knowledge on every aspect of vehicle design and manufacture. FISITA brings together engineers and decision-makers from industry, academia and government to work towards the improvement of transportation systems, the conservation of energy and the protection of the environment.

FISITA is a powerful force for the exchange of leading-edge technologies between nations, helping to create efficient, affordable safe and sustainable automotive transportation for the benefit of all.

FISITA provides a range of innovative programmes and services which help engineers to be more effective in their work.

FISITA supports the formation and development of students and young engineers.

FISITA delivers its strategy through a partnership between its member societies, the officers and staff of FISITA, the vehicle manufacturers and suppliers represented in the Honorary Committee and through co-operation with other organisations concerned with improving automotive transportation.

FISITA's Goals

To provide every FISITA member society with a global platform from which to promote its activities, advance its objectives and deliver added value to its individual members.

To support the professional development of automotive engineers by providing high quality, relevant technical and non-technical information and networking services.

To encourage young people to pursue a career in automotive engineering by providing advice, information and support to students and young engineers.

To create a better understanding of automotive engineering and its positive contribution to society among decision-makers, other organisations in the mobility sector and the general public.

To raise awareness of FISITA, its members and its mission.

INTRODUCING EAEC

European Automobile Engineers Cooperation is a cooperation of the European automotive engineering societies, which was founded in 1986 within the core of FISITA, responding the need of more specific cooperation among the European societies to forge closer links between the European automobile engineers societies, with the specific objective of interchanging information through programmes of events and joint technical meetings.

INTRODUCING SAITS

Slovak Society of Automotive Engineers is an organization grouping engineers and technicians from the field of automotive and related industries, research and universities. It has more than 150 members.

It plays the role of active backing for the research, development, production and application of road and off-road motorcars, their parts and systems, including fuels.

The SAITS was founded on 1st October 1993 in Bratislava. As the 27th national organisation of automotive engineers and technicians, it was accepted to the World Federation of FISITA at the

FISITA Council in Munich on the 19th May 1994. Simultaneously it became a member of the European Association of FISITA Members – EAEC.

INTRODUCING E&CC INTENZÍVA, LTD.

Educational & Conference Centre INTENZÍVA, Ltd. is an independent private company founded 9 years ago. Professional team of experts is able to provide, to proceed and to evaluate all programmes within our portfolio as well as to prepare brand new project according to the needs and requirements of its customers. Its mission is to focus on longterm certified educational programmes – various issues for experts within the areas of management, marketing and human resources.

It is a unique provider of conference services based on own know-how with a series of repeated events.

It has implemented a Quality Management System according to standard ISO 9001:2000 since 2003.

FOR MORE INFORMATION PLEASE CONTACT

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des Techniques de l'Automobile

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Co-Organizer



EAEC Automobile Engineers Cooperation

Elisabethstrasse 26, 1010 Vienna, Austria

E-mail: guenter.hohl@oevk.at

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Main organizer



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c/o Sjf STU

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Organizer website: www.intenziva.sk

Official Congress website: www.eaec2009.com

EAEC MEMBERS

Austria	ÖVK	Austrian Society of Automotive Engineers (Österreichischer Verein für rauffahrzeugtechnik)		The Netherlands	KIVI-NIRIA	Koninklijk Instituut Van Ingenieurs	
Belarus	AAA	Academic Automotive Association (Академическая Автомобильная Ассоциация)		Poland	SIMP	Polish Society of Mechanical Engineers and Technicians	
Belgium	UBIA	Union Belge des Ingénieurs de l'Automobile		Romania	SIAR	Societatea Inginerilor de Automobile din Romania	
Bulgaria	SAEB	Society of Automotive Engineers in Bulgaria		Russia	AEE	Association of Automotive Engineers	
Croatia	CroSev	Croatian Society for Engines and Vehicles		Serbia	JUMV	Yugoslav Society of Automotive Engineers	
Czech Republik	CAS	Česká Automobilová Společnost		Slovak Republik	SAITS	Spolok Automobilových Inžinierov a Technikov Slovenska	
Finland	SATL	Suomen Autoteknillinen Liitto r.y.		Slovenia	AMETS-AG	Association of Mechanical Engineers and Technicians of Slovenia – Automotive Group	
France	SIA	Société des Ingénieurs de l'Automobile		Spain	STA	Sociedad de Técnicos de Automoción	
Germany	VDI	VDI-Gesellschaft Fahrzeug-und Verkehrstechnik		Sweden	SVEA	Swedish Vehicular Engineering Association	
Hungary	GTE	Scientific Society of Mechanical Engineering (Vehicle Division) Gépipari Tudományos Egyesület		Switzerland Switzerland	SAE	Society of Automotive Engineers Switzerland	
Italy	ATA	Associazione Tecnica dell' Automobile		United Kingdom	IMechE	Institution of Mechanical Engineers Automotive Division	
Latvia	LAIA	Latvian Society of Automobile Engineers					
Lithuania	LSAE	Lithuanian Society of Automotive Engineers					

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VLADIMIR BACISIN	SLOVAK REPUBLIC
TIBOR BUDVESEL	SLOVAK REPUBLIC

DETAILED SCIENTIFIC PROGRAMME

OPENING SESSION (9:00 – 10:30)

WELCOME OF THE SLOVAK REPUBLIC REPRESENTATIVES

Representatives of: SAITS, EAEC, FISITA

Coffee Break (10:30 – 11:00)

PLENARY SESSION (11:00 – 12:30)

STATUS: AUTOMOTIVE ENGINEERING – CONTINENTS

AMERICA (speaker to be confirm)

EUROPE (speaker to be confirm)

ASIA (speaker to be confirm)

STATUS: AUTOMOTIVE ENGINEERING – AREAS

Research & Development (speaker to be confirm)

POWERTRAIN-FUELS (speaker to be confirm)

AUTO – INDUSTRY (speaker to be confirm)

Lunch (13:00 – 15:00)

CONGRESS SCIENTIFIC PROGRAMME

Oral Presentations

ROOM 1	SESSION P01 15:00 – 16:30	POWERTRAIN PERFORMANCE 1
		Chairman: Hans Peter LENZ
	16:30 – 17:00	Coffee break
		ENGINE DEVELOPMENT (INNOVATION)
SESSION P02 17:00 – 18:30	Chairman: Harry WATSON	
	Timo JANHUNEN Aumet Oy, Finland <i>The Z engine, a new type of car diesel engine having low emissions, high part load efficiency and power density and low manufacturing costs</i>	
	Angelo ALGIERI, P. MORRONE University of Calabria, Italy <i>The influence of the operating conditions on the performances of innovative after treatment systems</i>	
	Harald RIENER MAGNA Powertrain Engineering Center, Steyr, St. Valentin, Austria <i>Simulation of engine dynamics by using MBS/FEM-coupled structures</i>	
ROOM 2	SESSION P03 15:00 – 16:30	POWERTRAINS AND GEARS 1
		Chairman: Thomas DRÄXL
	16:30-17:00	Coffee break
		Alexander MOSER BorgWarner, Ketsch, Germany <i>BorgWarner DualTronic® transmission concepts for efficiency, cost & robustness</i>
	Miguel DE LA CRUZ, H. RAHNEJAT, P. KING, P. KELLY Loughborough University, UK <i>Manual transmission gear rattle – a numerical and experimental approach</i>	
	Grzegorz BUDZIK, M. CYGNAR, M. OLEKSY, M. SOBOLAK Rzeszow University of Technology, Poland <i>Tooth contact analysis of bevel gear of gearbox transmission with RP and RT methods</i>	

ROOM 2	SESSION P04 17:00 – 18:30	POWERTRAINS AND GEARS 2
		Chairman: Alexander MOSER
		Bernd-Robert HÖHN, T. DRÄXL FZG, TU Munich, Germany <i>The optimized CVT hybrid driveline – combining fuel economy and drivability through a novel engine starting method</i>
		Hyeongjin HAM, H. LEE Hanyang University, Seoul, Korea <i>The control algorithm of Four Wheel Drive (4WD) system based on mathematical equation by vehicle dynamics analysis</i>
		Bogdan Ovidiu VARGA, N. BURNETE, I. RUS, A. COSTEA TU of Cluj-Napoca, Romania <i>Automatic gearbox optimizing process developed in Simulink and CANoe</i>
ROOM 3	SESSION V01 15:00 – 16:30	BUSSES & TRUCKS 1
		Chairman: Gernot WAGNER
		Valentin IVANOV, B. SHYROKAU, K. AUGSBURG TU of Ilmenau, Germany <i>Model- and hardware-in-the-loop-simulation for problems of bus dynamics control</i>
	Hocine IMINE LCPC, Paris, France <i>High order sliding mode observer to estimate the unknown inputs of heavy vehicle</i>	
		Juraj MATEJ Slovak University of Technology, Bratislava, Slovak republic <i>Optimization of hybrid electric truck</i>
	16:30 – 17:00	Coffee break
ROOM 1	SESSION V02 17:00 – 18:30	BUSSES & TRUCKS 2
		Chairman: Günter HOHL
		Beatriz L. BOADA, A. GAUCHIA, M.J.L. BOADA, V. DIAZ ISVA Carlos III University, Madrid, Spain <i>The effect of an active roll system in the behavior of a bus structure</i>
	Ester OLMEDA, J. L. SAN ROMAN, A. GAUCHIA ISVA Carlos III University, Madrid, Spain <i>A model of coordinate system for bus dynamic analysis</i>	
		Waleed FARIS, S. IHSAN International Islamic University, Malaysia <i>Semi-active suspensions for two and three-axles off-road vehicles</i>

ROOM 4	SESSION V03 15:00 – 16:30	NEW MATERIALS
		Chairman: Gerfried JUNGMEIER
		Jerzy JASKOLSKI, R. KRZYZAK Cracow University of technology, Poland <i>The molecular and thermo-mechanical aspects of joining materials – ideas against ceramic elements of the engine</i>
		Yansong ZHANG Shanghai, Jiao Tong University, China <i>Investigations of weldability lobe in resistance spot welding dual-phase steels used in auto-body manufacturing</i>
		Agnieszka RUTECKA, L. DIETRICH, Z. L. KOWALEWSKI Institute of fundamental Technological research PAN, Warsaw, Poland <i>Creep and low cycle fatigue investigations of light aluminium alloys for engine cylinder heads</i>
	16:30 – 17:00	Coffee break
ROOM 1	SESSION V04 17:00 – 18:30	ENVIRONMENT & VEHICLE SAFETY
		Chairman: Miguel Ángel PÉREZ SALAVERRÍA
		Gerfried JUNGMEIER, J. MERKL JOANNEUM RESEARCH, FGmbH, Graz, Austria <i>The energy and greenhouse gas balance of bioethanol plants – the case of the AGRANA bioethanol plant in Pischelsdorf</i>
		Dean McDERMOTT Redforge Ltd., Redditch, UK <i>Vehicle over load detection</i>
		Sven RÖNNBÄCK Applied Physics and electronics, UMEA, Sweden <i>Obstacle avoidance and collision detection amid circular objects</i>
ROOM 1	SESSION P05 08:30 – 10:00	HYBRID 1
		Chairman: Aditya DHAND
		Qinglian REN, D. Crolla, A. Morris University of Sunderland, UK <i>Performance comparisons of single and dual epicyclic power split transmissions for hybrid electric vehicles</i>
		Kyuhong HAN, J. KIM, H. KIM, T. PARK, J. KIM, H. LEE Hanyang University, Seoul, Korea <i>Fault detection and isolation strategy in parallel hybrid electric vehicles</i>
		Arun S. NAIR, I. ILAGOVAN KPIT Cummins Infosystems Pvt Ltd., Bangalore, India <i>Vehicle communication network design – A case study for hybrid electric vehicles</i>
	10:00 – 11:00	Coffee break

ROOM 1	SESSION P06 11:00 – 12:30	HYBRID 2	
		Chairman: Pasquale CORBO	
		Jihun KIM, H. KIM, T. PARK, K. HAN, H. LEE Hanyang University, Seoul, Korea <i>A study of the control strategy of the ISG system using DOB for the parallel hybrid vehicle</i>	
		Aditya DHAND, A. WALKER, B. CHO, D. KOK, R. H. LORENTZEN, T. PETRIDIS AVL Powertrain UK Ltd., Basildon, Essex, UK <i>Evaluation of impaired vehicle launch for stop-start micro hybrid vehicles</i>	
	Tomaz KATRASNIK University of Ljubljana, Slovenia <i>Energy conversion efficiency of parallel and series hybrid electric heavy-duty vehicles</i>		
	12:30 – 14:30	Lunch	
	SESSION P07 14:30 – 16:00	HYBRID 3	
		Chairman: Qinglian REN	
		Juraj MATEJ Slovak University of Technology, Bratislava, Slovak republic <i>Hybrid vehicle power-flow control</i>	
		Danut Gabriel MARINESCU, I. TABACU University of Pitesti, Romania <i>Ecomatic hybrid system for an hybrid utility vehicle</i>	
Katherine ILIE RMIT University, Bundoora, Australia <i>Technological aspects of dual charging and lean combustion for IC engines</i>			
16:00 – 17:00	Coffee break		
ROOM 2	SESSION P08 17:00 – 18:30	POWERTRAIN & COMBUSTION	
		Chairman: Victor GHEORGHIU	
		Markus KIEBERGER, P. HOFFMANN, B. GERINGER TU Vienna, Austria <i>Preignition Phenomena – Limit of supercharging of SI engines</i>	
		Antoni JANKOWSKI, J. JAROSINSKI, M. SLEZAK Institute of Aeronautics, Warsaw, Poland <i>Evaluation of heat transfer from combustion gases to combustion chamber walls of piston engines</i>	
Antoni JANKOWSKI, P. LAGOWSKI, M. SLEZAK Institute of Aeronautics, Warsaw, Poland <i>Theoretical and experimental studies of heat release characteristics in the combustion chamber of CI engine</i>			

ROOM 2	SESSION P09 08:30 – 10:00	ENGINE & FUELS	
		Chairman: Antoni JANKOWSKI	
		Richard LLOYD R. A. LLOYD Consultancy, Coventry, UK <i>Fuel consumption – seasonal variation, drivability, and gearing</i>	
		Eberhard SCHUTTING, T. SCHATYBERGER, T. KAMMERDIENER, M. NOST Graz University of Technology, Austria <i>In-cylinder strategies and alternative fuels for lowest diesel emissions</i>	
	Simona Silvia MEROLA, C. TORNATORE, P. SEENTA, B. M. VAGLIECO ISTITUTO MOTORI – CNR, Napoli, Italy <i>Fuel effect on the abnormal combustion processes in a boosted SI PFI engine.</i>		
	10:00 – 11:00	Coffee break	
	SESSION P10 11:00 – 12:30	ENGINE & EMISSIONS	
		Chairman: Bernhard GERINGER	
		Victor GHEORGHIU Hamburg University of applied Sciences (HAW), Germany <i>CO₂-emission reduction by means of enhancement of the thermal conversion efficiency of ICE cycles</i>	
		Guido LENAERS VITO, Mol, Belgium <i>On-board measurement of the influence of driving behavior and road type on CO₂ emission and consumption for 4 powertrain technologies</i>	
Jerzy MERKISZ, J. PIELECHA Poznan University of Technology, Poland <i>On-board emissions measurement from light duty diesel vehicles</i>			
Theodoros ZANNIS, D. HOUNTALAS, E. YFANTIS, R. PAPAGIANNAKIS, Y. LEVENDIS, I. PSAROS Hellenic Naval Academy, Ireaus, Greece <i>Control of NO_x emissions from diesel engines burning oxygenated fuels with nitrogen enrichment of intake air and retardation of injection timing</i>			
12:30 – 14:30	Lunch		
SESSION P11 14:30 – 16:00	GAS FUELS 1		
	Chairman: Piotr BIELACZYK		
	Sebastian VERHELST, R. SIERENS Ghent University, Belgium <i>Potential of a supercharged port fuel injected hydrogen engine</i>		
Peter MESMAN, B. VEENHUIZEN HAN University, Arnhem, Netherlands <i>Influence of backpressure on the spray formation of liquid LPG in a constant volume chamber</i>			
Andrzej SZCZOTKA, P. BIELACZYK, P. GIZYNSKI, I. BEDYK BOSMAL Automotive R&D Centre, Bielsko Biala, Poland <i>The impact of different biodiesel blends with high contents of RME on the exhaust emissions from modern light-duty diesel engine</i>			

ROOM 2	16:00 – 17:00	Coffee break
	SESSION P12 17:00 – 18:30	GAS FUELS 2
		Chairman: Sebastian VERHELST
		Thomas WALLNER, H. LOHSE-BUSCH Argonn National Laboratory, USA <i>Hydrogen combustion engines – progress and prospects</i>
Pasquale CORBO, F. MIGLIARDINI, O. VENERI Italian national research council – Istituto Motori, Napoli, Italy <i>Light metal hydrides as hydrogen storage system for fuel cell power trains</i>		
ROOM 3	SESSION V05 08:30 – 10:00	BUSSES & TRUCKS
		Chairman: Beatriz L. BOADA
		Tamas STRELI, H. NÉMETH Knorr Bremse RND center, Budapest, Hungary <i>Vehicle dynamics on the response of rear axle steering actuation</i>
		Siegfried HOLZER, P. FISCHER, G. WAGNER, A. WALSER, Ch. STOCKINGER Kässbohrer Transport technik GmbH., Eugendorf, Austria <i>Durable design of transport vehicles – Calculation of welding seam fatigue properties</i>
ROOM 3	SESSION V06 11:00 – 12:30	PASSENGER CARS
		Chairman: Wolfgang HIRSCHBERG
		Christoffer LANDSTRÖM, L. CHRISTOFFERSEN, L. LÖFDAHL, P. AGNEZON Chalmers University of technology, Gothenburg, Sweden <i>The new ground simulation system in the L2 aerodynamic wind tunnel at Chalmers University of Technology</i>
		Ralf STETTER, Carsten LAUBER Hochschule Ravensburg – Weingarten, Germany <i>Advanced simulation techniques for costumer oriented seating systems development</i>
ROOM 3	SESSION V06 11:00 – 12:30	Shi SHAOYOU, Z. WENZHANG Beijing Automotive Corporation, China <i>Research of advanced full hybrid electrical vehicle</i>
		12:30 – 14:30

ROOM 3	SESSION V07 14:30 – 16:00	VEHICLE SYSTEMS 1	
		Chairman: Alexander BERG	
		Herman VAN DER AUWERAER, J. ANTHONIS, M. GUBITOSA, N. ALBARELLO, P. MAS LMS International, Leuven, Belgium <i>Mechatronic optimization in intelligent vehicles: application to an active damper</i>	
		Gergely BARI Budapest University of technology and economics, Hungary <i>Controlling the yaw motion of vehicles equipped with active anti roll bar systems</i>	
ROOM 3	SESSION V08 17:00 – 18:30	Jinkuk CHO, J. KIM, H. LEE Hanyang University, Seoul, Korea <i>Integrated control for ESC and TVD using sideslip angle – sideslip angular speed, sideslip angle – yaw rate phase plane</i>	
		16:00 – 17:00	Coffee break
		VEHICLE SYSTEMS 2	
		Chairman: Herman VAN DER AUWERAER	
ROOM 4	SESSION V09 08:30 – 10:00	Karl MEIER-ENGEL Bernier Fachhochschule TI, Vauffelin, Switzerland <i>Low cost detector for battery failure</i>	
		Jörg GEHRMANN, H. JAHN PACE GmbH., Berlin, Germany <i>Interdisciplinary engineering – Holistic perspectives for tomorrow 's vehicle design</i>	
		Tommas INGRASSIA, G. MARANNANO. G. V. MARIOTTI University of Palermo, Italy <i>Design and optimization of a chassis for a formula SAE race car</i>	
		Mihaela-Liana BOGDAN University of Craiova, Romania <i>Aspects about dynamic simulation of a car suspension assembly</i>	
ROOM 4	SESSION V09 08:30 – 10:00	NOISE & VIBRATION – VEHICLES	
		Chairman: Peter FISCHER	
		Peter GAJDATSY, K. JANSSENS, P. MAS, L. GIELEN, H. van der AUWERAER, W. DESMET LMS International n. v. Leuven, Belgium <i>Introduction and validation of a novel TPA method on experimental and industrial cases</i>	
		George KORONIAS, H. RAHNEJAT, S. THEODOSSIADES, T. SAUNDERS Loughborough University, UK <i>Investigation of Axle Gear Whine on a RWD Light Vehicle</i>	
ROOM 4	SESSION V09 08:30 – 10:00	Thiago Viana GALAVOTTI, A. APARECIDO, V. LOPES, G. PECHOTO DE MELO UNESP/FEIS, Brasil <i>Semi-active vibration suppression in vehicular platform using smart spring mechanism</i>	

10:00 – 11:00	Coffee break
SESSION V10 11:00 – 12:30	MODELS & VEHICLE SIMULATION
	Chairman: Christoffer LANDSTRÖM
	Belachew TESFA, R. MISHRA, F. GU, A. BALL University of Huddersfield, UK <i>Transient process modeling for condition monitoring of compression ignition (CI) engine</i>
	Francisco J. MARTÍNEZ, J. M. ROYO, I. NADAL, J. J. SÁNCHEZ, J. NOACK, B. KUNHERT Aragón Institute of Technology, Spain <i>Multibody simulations of a brake booster system by means of finite element analysis</i>
	Wolfgang HIRSCHBERG, F. PALČÁK, G. RILL, J. ŠOTNÍK TU Graz, Austria <i>Reliable vehicle dynamics simulation in spite of uncertain input data</i>
Balint SZABO Budapest University of Technology and Economics, Hungary <i>Multi-body wheel model development for simulating the tire deformations during planar motion</i>	
12:30 – 14:30	Lunch
SESSION V11 14:30 – 16:00	SAFETY 1
	Chairman: András VOITH
	Alexander BERG, P. RÜCKER, F. LEIMBACH, E. C. CHIRWA, G. K. SHINNASWAMY DEKRA Automobil GmbH., Stuttgart, Germany <i>Contribution to highlight possible impacts of nonprofessional repair on the quality and safety of vehicles</i>
	Juan F. DOLS University Polytechnic of Valencia, Spain <i>Passive safety optimization in vehicles adapted to be driven by disabled</i>
	Mátyás MATOLCSY <i>Analysis of bus fires and belonging SAFETY Q</i>
Giovanni BELINGARDI, E. GOBETTO, A. SCATTINA Politecnico di Torino, Italy <i>A new design for a van bonnet to meet lightweight and pedestrian safety targets</i>	
16:00 – 17:00	Coffee break

SESSION V12 17:00 – 18:30	SAFETY 2
	Chairman: Mátyás MATOLCSY
	Marcus KALTENBÖCK, H. Dannbauer, D. Eberhard, W. Robert, Ch. Gaier Magna Powertrain, St. Valentin, Austria <i>Stiffness and fatigue life investigations of different spot weld modeling techniques</i>
	Daniel IOZSA Politechnica University of Bucharest, Romania <i>FE analysis of a truck structure in order to predict its crash behavior</i>
	Michael CHEPY, A. ARGONDIZZA AMET Srl, Torino, Italy <i>An HIL ABS-ESC application</i>
Attila GUBOVITS Budapest University of Technology and Economics, Hungary <i>Validation process for vehicles equipped with ESP</i>	
SESSION P13 08:30 – 10:00	NOISE & VIBRATION – ENGINES
	Chairman: Peter GAJDATSY
	Peter FISCHER, S. HOLZER, C. SCHÖRGHUBER dTech Steyr DTS GmbH., Austria <i>The virtual acoustic test track: Real time simulation of computed engine borne sound for transient driving conditions</i>
	Stefan KAINDL, P. FISCHER dTech Steyr DTS GmbH., Austria <i>Simulation of vibration fatigue for transient loaded engine components</i>
	Marek FLEKIEWICZ, P. FABIS, B. FLEKIEWICZ GIGATRONIC Stuttgart GmbH, Germany <i>Misfire detection in spark ignition engine – part 1</i>
Adrian CLENCI, A. BIZIIAC, J. BERQUEZ, L. BOGDAN, P. PODEVIN, G. DESCOMBES, V. HARA University of Pitesti, Romania <i>Variable intake valve lift on spark ignition engine and the effects on fuel economy</i>	
10:00 – 11:00	Coffee break

ROOM 5		ENGINE & ECOLOGY
SESSION P14 11:00 – 12:30	Chairman: Jerzy Merkisz	
	Mustafa ELKADY, A. ELMARAKBI, M. SALEH, M. ABDELHAMEED, A. BAWADY Sunderland University, UK <i>Continuous variable valve timing control system for model spark ignition engine</i>	
	Kjell ac BENGSTRÖM GM Powertrain Sweden AB <i>The new Ecotec turbo Biopower – power of nature</i>	
	Michael URBANEK, P. HOFMANN, B. GERINGER TU Vienna, Austria <i>Vehicle use with ethanol blends – emission performance and potential for CO2 reduction</i>	
12:30 – 14:30	Lunch	
ROOM 5		PRODUCTION PROCESS
SESSION T01 14:30 – 16:00	Chairman: Ralf STETTER	
	Johnny LARSSON Volvo Car Corporation, Gothenburg, Sweden <i>Improved car body performance for the Volvo XC60 model through the extensive utilization of laser technology</i>	
	Antonio GAUCHIA, A. GAUCHÍA, M.J.L. BOADA, V. DIAZ Carlos III University, Madrid, Spain <i>Investigation of the dynamic performance of a light van body-in-white structure</i>	
Jan LESINSKY Slovak University of Technology, Bratislava, Slovak Republic <i>Influence of new – comer countries in automotive production by continental labour strategy</i>		
16:00 – 17:00	Coffee break	
ROOM 5		PRODUCTION TECHNOLOGY
SESSION T02 17:00 – 18:30	Chairman: Johnny LARSSON	
	Ryosuke ANDO, M. KAWAI Toyota Transportation Research Institute, Japan <i>A study on a support system for traffic safety around parking lot</i>	
	Tom GORDON, A. BODEN, J. BROWN, C. WELUNGODA MIGfast Pty Ltd., Melbourne, Australia <i>Paradigm shift in productivity for robotic MIG welding</i>	
	George GHERGHINA, M. BRABETE University of Craiova, Romania <i>Implementing a component from a new supplier</i>	

ROOM 1		POWERTRAIN PERFORMANCE 2
SESSION P15 08:30 – 10:00	Chairman: Michael DELIGANT	
	Harry C. WATSON, Pou.a MEHRANI University of Melbourne, Australia <i>An ultra-lean burn SI engine with extreme efficiency and flexibility</i>	
	Wladyslaw MITIANIEC, K. BUCZEK Cracow University of Technology, Poland <i>A new design of ecologic two-stroke engines</i>	
	Wladyslaw MITIANIEC, M. FORMA Cracow University of Technology, Poland <i>Influence of charge motion on spray guided direct fuel injection in small power two-stroke engines</i>	
10:00 – 11:00	Coffee break	
ROOM 1		FUELS & LUBRICANTS
SESSION P16 11:00 – 12:30	Chairman: Richard LLOYD	
	Sabato IANNACCONI, M. GAMBINO, L. DE SIMIO Istituto Motori – CNR, Napoli, Italy <i>Environmental advantages from biofuels employment</i>	
	Wolfgang PAYER, T. FEITZINGER, F. NOVOTNY-FARKAS OMV Refining and Marketing GmbH, Schwechat, Austria <i>Interaction of fuel and oil in a modern common rail diesel engine by the operation with biofuel components of 1st and 2nd generation</i>	
István BARABÁS, A. TODORUT, D. BALDEAN, F. SUCIU Technical University of Cluj-Napoca, Romania <i>Experimental study on the spray characteristics for diesel fuel and biodiesel-diesel fuel-bioethanol blends</i>		
ROOM 2		BRAKES & SUSPENSION 1
SESSION V15 08:30 – 10:00	Chairman: Jose VALDES	
	John D FIELDHOUSE, D. BRYANT, A. CRAMPTON, C. TALBOT The University of Huddersfield, UK <i>Thermo-elastic and elastic investigations of a brake disc during a heavy braking event.</i>	
	John D. FIELDHOUSE, N. ASHRAF, C. J. TALBOT The University of Huddersfield, UK <i>An investigation of the movement of the disc/pad centre of pressure during a braking event.</i>	
	Siarhei KLIAUZOVICH, K. AUGSBURG, J. SENDLER Minsk-Lada, Belarus <i>Development of brake-by-wire systems for alternative vehicle concepts</i>	
10:00 – 11:00	Coffee break	

ROOM 2		BRAKES & SUSPENSION 2		
				Chairman: John DAVID
SESSION V16 11:00 – 12:30	Javier ORUS, J. M. RODRIGUEZ-FORTUN, T. PÜTZ, W. SCHWANKE, Instituto Tecnológico de Aragón (ITA), Zaragoza, Spain <i>Real-time simulation of hydraulic control unit for brake systems</i>			
	Hyunsup KIM, H. LEE Hanyang University, Seoul, Korea <i>Synchronous height control algorithms based on optimal control for the air suspension system</i>			
	Vladimir ALGIN, D. TRETSAK, O. DROBYSHEVSKAYA National Academy of Sciences of Belarus, Minsk <i>Investigations in advanced brake assistant systems</i>			
ROOM 3		RECYCLING		
		Chairman: Jan LESINSKY		
SESSION V13 08:30 – 10:00	Massimo DELOGU, M. PIERINI University of Firenze, Italy <i>ELVs: conceptual design of an automated dismantling system for tyres</i>			
	Radoslaw WROBEL, A. SOBIANOWSKA-TUREK, A. JANICKA Wroclaw University of Technology, Poland <i>The chemical properties of alternative fuel from Automobile Shredder Residue (ARS)</i>			
	Zsofia UJSAGHY Budapest University of Technology and Economics, Hungary <i>Modern recycling methods of car wrecks, considering recovery possibilities of shredded light fraction</i>			
10:00 – 11:00	Coffee break			
ROOM 3		DYNAMIC SIMULATION		
		Chairman: Belachew TESFA		
SESSION V14 11:00 – 12:30	Jose VALDES, M. MIANA, J. ORÚS, J. M. RODRÍGUEZ, T. PÜTZ, Instituto Tecnológico de Aragón (ITA), Zaragoza, Spain <i>Simulation, prediction and reduction of pressure pulses in a hydraulic brake circuit</i>			
	Mohsen ALIREZAIE, A. GHAFARI, R. KAZEMI K. N. Toosi University of Technology, Tehran, Iran <i>A novel approach for stability improvement of autonomous vehicle under combination of virtual force and moment</i>			
	Weigao QIAO Wuhan University of Technology, China <i>Simulation research of vehicle colliding with freeway concrete guardrail accidents</i>			

ROOM 4		NOISE & VIBRATION		
				Chairman: Stefan KAINDL
SESSION P17 08:30 – 10:00	Raphael HALLEZ, K. DE LANGHE LMS International, Leuven, Belgium <i>Application of the fast multipole method to compute the acoustic radiation of a complete vehicle</i>			
	Jesus ALFONSO, I. NADAL, A. IBANEZ, F. URZAINQUI Instituto Tecnológico de Aragón (ITA), Zaragoza, Spain <i>V-Cycle development of a controller for a random load fatigue test bench</i>			
	Amir AFKAR Iran University of Science and Technology, Tehran, Iran <i>Nonlinear whole-body biomechanical model with 7 degrees of freedom for a seated human subject exposed to vertical vibration using a genetic algorithm</i>			
10:00 – 11:00	Coffee break			
ROOM 4		ENGINE PARAMETERS & TRANSPORT		
		Chairman: Olivier SANDER		
SESSION P18 11:00 – 12:30	Zbigniew SMALKO Air Force Institute of Technology, Warsaw, Poland <i>Diagnosis and decision system for road transport</i>			
	Józef-Stanislaw NITA Technical University-Radom, Poland <i>The improvement of gasoline engine performance as a result of proper air fuel ratio in each cylinder filling cycle</i>			
	Dymitry HERSHAN Belarusian National Technical University, Belarus <i>Coordination of fuel sprays characteristics with combustion chamber parameters</i>			
ROOM 5		STANDARD & REGULATIONS		
		Chairman: Raphael HALLEZ		
SESSION T03 08:30 – 10:00	Matteo PEROTTI, M. ANDRÉ, G. BOMBA Politecnico di Milano, Italy <i>Remote monitoring of driving pattern and vehicle usage: Technology analysis and perspectives</i>			
	Tímea FÜLEP, L. NÁDAI Budapest University of Technology and Economics, Hungary <i>Dependability in design of automotive systems regarding legislative requirements</i>			
	Nikolett PEZSA, A. TOROK, M. ZOLDY Budapest University of Technology and Economics, Hungary <i>Greenhouse gas emission of the Hungarian transport sector</i>			
10:00 – 11:00	Coffee break			

INFORMATION & COMMUNICATION SYSTEMS

SESSION

T04

11:00 – 12:30

Chairman: Alessandro SCATTINA

Oliver SANDER, B. GLAS, Ch. ROTH, J. BECKER, K. D. MUELLER-GLASER
University of Karlsruhe KIT, Germany
Real time information processing for car to car communication applications

Richard MUTSCHLER
GIGATRONIC Stuttgart GmbH, Germany
Improvement of the HMI development process through model based specification.

David GALLEGOS, F. LIESA, M. MATEO, F. CANSECO
Technical University of Catalonia, Barcelona, Spain
Assignment process of the emergency services in the e-call project

György BUDIK Budapest University of Technology and Economics, Hungary <i>Hydrogen based operation of internal combustion engines</i>
Marek FLEKIEWICZ, G. KUBICA Silesian University of Technology, Katowice, Poland <i>The influence of hydrogen cng enrichment ratio on si engine performance and its emission levels</i>
Marek FLEKIEWICZ, G. KUBICA, K. WILK Silesian University of Technology, Katowice, Poland <i>The analysis of heat release in an si engine powered by methane and methane-hydrogen blends</i>
István BARABÁS, A. TODORUT, D. BALDEAN, F. SUCIU Technical University of Cluj-Napoca, Romania <i>Key fuel properties of biodiesel-diesel-bioethanol blends which influence the spray process</i>
Marek FLEKIEWICZ, B. FLEKIEWICZ P. FABIS Silesian University of Technology, Katowice, Poland <i>Recovery of piston-cylinder clearance using time-frequency methods</i>
Chien-tai HUANG, Ch. CHEN, S. CHENG, B. CHEN, Y. LIAO Automotive Research and Testing Center (ARTC), Lugang, Taiwan <i>Product design and vehicle testing of an electric parking brake actuator</i>
Jongkuk LEE, H. LEE Hanyang University, Seoul, Korea <i>Development of ELSD control logic by vehicle dynamics analysis</i>
Adrian-Ioan NICULESCU Institute of Solid Mechanics, Bucharest, Romania <i>Evaluation of the VZN shock absorber behavior</i>
Catalin ALEXANDRU, P. ALEXANDRU University Transilvania of Brasov, Romania <i>The dynamic analysis & simulation of the guiding – suspension system of the motor vehicles using the virtual prototyping technique</i>

Vladimir SIAKHOVICH, D. TRETSIAK, H. BROUKA Belarusian National Technical University, Minsk, Belarus <i>Intelligent vehicle dynamics control using neuronal networks</i>
Anna JANICKA, W. WALKOWIAK, W. SZCZEPANIAK, E. ZACZYNSKA, A. CZARNY Wroclaw University of Technology, Poland <i>Inner catalyst application in self-ignition engine – toxicity of Polycyclic Aromatic Hydrocarbons (PAHs) in exhausts</i>
Miguel Ángel PÉREZ SALAVERRÍA Jaguar-Land Rover Spain Portugal, Madrid, Spain <i>Service needs forecasting: an approach for the automotive industry using analogies with medical ER management models</i>
Miguel Ángel PÉREZ SALAVERRÍA Jaguar-Land Rover Spain Portugal, Madrid, Spain <i>Intensive use of aluminium in car body construction</i>
Petre ALEXANDRU, C. ALEXANDRU University Transilvania of Brasov, Romania <i>Mechanisms for the integral steering</i>
Jacek NOWAKOWSKI, K. BRZOZOWSKI University of Bielsko-Biala, Poland <i>Numerical model and programme for simulating working process in the compression-ignition engine with EGR</i>
Gabriel NOWACKI Motor Transport Institute, Warsaw, Poland <i>The national automatic toll collection system (NATCS) – proposition for Poland</i>
Vihar MALVIYA, R. MISHRA, J. FIELDHOUSE University of Huddersfield, UK <i>Enhanced analytical vehicle stability model</i>
Zdzislaw STELMASIAK, J. LARISCH, J. SEMIKOW Technical University of Bielsko-Biala, Poland <i>Some aspects of bifuel SI engine run on alcohol and gasoline</i>
Gyubaek CHO, H. KIM, H. CHO, Y. JEONG Korea Institute of Machinery and Materials, Daejeon, Korea <i>Development of the active regeneration system for the DPF of middle duty vehicles with plasma assisted burner</i>
Catalin ALEXANDRU University Transilvania of Brasov, Romania <i>The influence of the compliant joints on the static behaviour of the guiding linkages used for the rear axle of the off-road vehicles</i>
George-Radu TOGANEL, A. SOICA, D. DIMA University Transilvania of Brasov, Romania <i>Aspects regarding the analysis of the car geometry influence over the pedestrian injury severity and distribution</i>
Byoung Joon MOON, K. KIM, Y. CHUNG, C. PARK Mando Corporation, Yongin-Si, Korea <i>A study of model based fault detection of electric parking brake system</i>

Mohamed. I. KHALIL, S. M. METTWALY, E. S. MOHAMED, S. A. ABOUEL-SEOUD
Helwan University, Cairo, Egypt

Road traffic flow control by regulating street noise propagation in an urban area

Nicolae FILIP, F. CRISTEA, C. AIRINEI
Technical University of Cluj-Napoca, Romania

Research concerning the vehicles classification and identification with laser sensor

Andrzej AMBROZIK, T. AMBROZIK, P. LAGOWSKI
Technical University of Kielce, Poland

Glued functions – based assessment of approximation accuracy of self-ignition engine real indicator diagram

Jacek NOWAKOWSKI, K. BRZOZOWSKI
University of Bielsko-Biala, Poland

Numerical model and programme simulating working process in the compression-ignition engine with EGR.

Trusca DANIEL-DRAGOS, S. ADRIAN, T. STELIAN
Transilvania University of Brasov, Romania

Research on passive safety evaluation in rear-end collision

PLENARY CLOSING CEREMONY

PLENARY CLOSING CEREMONY (12:30 – 13:30)

Strategy for the Future – Ed Robertson, USA

Address of the Automotive Industry of Slovak Republic Representatives

Chairman of the EAEC 2009 – Lešinský

President of EAEC – HOHL

Chairman of the EAEC 2011 – Boronat

Farwell Lunch (13:30 – 15:00)



FISITA Educators Seminar:

'Developing the links between Industry and Higher Education Institutions (HEIs) in Automotive Engineering'

Monday 29 June 2009 (15.00 – 18.30)



This new seminar, organised by FISITA, will provide an opportunity for engineering educators to gain insight into the current and future needs of the industry, in terms of technology and wider competencies, helping them to ensure the relevance of their courses and the employability of their graduates. This unique meeting will also be a chance for educators and industry employers to make connections and discuss common problems and challenges around the need for innovation in automotive engineering education.

The rapid pace of development in automotive technology necessitates a greater shared understanding between engineering educators and their 'consumers' in the automotive industry. With industry leaders predicting a virtual 'reinvention of the automobile' over the coming decades, **universities need to prepare their students for** careers in tomorrow's automotive business, where diverse factors such as alternative energy; electrification; downsizing; mobility technology; increasing use of advanced electronics & lightweight materials and global demographic shifts, are changing forever the way the industry uses engineering talent.



Seminar Moderator:
Matti Juhala,
FISITA VP Education

The seminar will be moderated by the FISITA Vice President Education, Matti Juhala.

Speakers will include:

- Representative from the European Commission;
- Business Development Manager responsible for Industry-Partnerships for University of London;
- Human Resources Manager of a major automaker;
- Education Manager of a FISITA member society.

EAEC delegates can attend this seminar free of charge.

A detailed programme for the Educators Seminar, with confirmed speakers, will be available on both the FISITA website (www.fisita.com) and the 2009 EAEC Congress (<http://www.eaec2009.com>) from early May. You can obtain further information from Emer Padden, Education Officer (e.padden@fisita.com).

AUTODAY 2009

A Brokerage event AutoDay 2009 is organised within the Enterprise Europe Network on the 1st of July 2009 in Bratislava as an official accompanying event to the 12th EAEC European Automotive Congress 2009.

The event is targeted to organisations offering or looking for technologies, tools and solutions in their products, services, development and manufacturing processes or commercial activities in the field of automotive industry. It will be a unique opportunity to establish new business contacts with potential partners from Slovakia and other European countries and a perfect starting point for developing of further co-operation with European automotive suppliers.

There are some more information on the AutoDay website: www.autoday2009.sk.

AUTOMOTIVE SUPPLIERS CENTRAL EUROPEAN EXHIBITION – ASCEE 2009

The accompanying exhibition ASCEE 2009 is an excellent opportunity to demonstrate your newest products – manufactured or supplied modules, systems, components (3D) and services, to present your developments, proceedings or the company itself. The target group of the congress are managers and specialists of car manufacturers, suppliers, logistical and freight companies, science, research and development specialists and representatives of international automotive organizations. The exhibition is a perfect opportunity to retain your present and gain new customers.

According to the available space of the entrance hall are amount and types of booths limited and the exhibitors will book a particular booth following the enclosed plan.

For more detailed information please visit the official Congress website www.eaec2009.com.

GENERAL INFORMATION

Venue

The 12th EAEC European Automotive Congress Bratislava will take place at Crowne Plaza Bratislava, a first class deluxe hotel, combining the best central location with comfortable accommodation, modern conference facilities and superb cuisine. Hotel is situated in the heart of the city – opposite the Presidential Residence, within the pedestrian zone and only a few minutes walking distance to the famous Bratislava Castle. Easy to reach, within 10 km distance from Airport in Bratislava, or 50 km distance from Airport in Vienna, it is the best location for the congress.

For more information visit Crowne Plaza's website: www.crowne-plaza.sk/en/

Entry into Slovakia

EU Citizens can travel with a passport or a national ID, no visa needed. Slovakia is a member of the Schengen Agreement.

Non-EU Citizens must have a valid passport and might need visa, which are to be applied for at Slovak embassies abroad. For more visa information visit Slovak ministry of foreign affairs website www.foreign.gov.sk

Language

Official language of the 12th EAEC European Automotive Congress is English. Simultaneous translation (English/Slovak) will be at disposal only during Opening and Plenary session.

Climate

Bratislava is located in a mild climatic zone; average temperatures in June/July are 16°C – 26°C. For actual weather conditions or forecast for incoming days please visit www.shmu.sk

Currency

From 1st January 2009 Slovakia became a new member of Eurozone, therefore valid currency in Slovakia since January 1st 2009 is EURO. Travellers cheques are accepted at all major banks and exchange offices. If you need to change the money you can easily do that in the exchange offices that are available at the airport, railway station, in the hotel etc. Most shops are accepting credit cards, but it is best to check beforehand. In case you might need cash you can withdraw the money from the ATM cash machine available at the bank office, on the street, in the hotel or in the big shopping centers.

Tipping

Tip is mostly not included; the average is 5-10% of the bill.

Tax

The VAT in Slovakia is 19% and is included in the prices.

Communication

All Slovak nets are UMTS supported, GSM phones are supported too. In the hotel and in some cafes W-LAN connection is available, free of charge.

Electricity

Electric voltage in Slovakia is 230 Volts, alternating at 50 cycles per second. Outlets in Slovakia accept only 1 type of plug, with two round pins; you might need a plug adapter.

Time Zone

Central European Standard Time in summer is 2 hours ahead of Greenwich Mean Time (GMT+2).

Insurance

Participants are recommended to obtain insurance (travel, medical, personal accident, luggage) in their homeland. The organizers can not take any kind of responsibility for potential loss, damage or personal injuries of participants to the Congress or to their relatives or accompanying persons.

Lunches

Lunch in Crowne Plaza is available for all participants that marked this option in Booking Form or will order them during registration. Lunch will be served in restaurant ROME and unit price is 15 EUR per person and day.

REGISTRATION AND PAYMENT

Congress participants are kindly asked to fulfill the Delegate Booking Form (www.eaec2009.com, "Registration and Travel" than "Delegate Registration") and send it to the secretariat of organizer via e-mail: konferencie@intenziva.sk or via fax: +421 2 6828 6574. Afterwards participant will obtain confirmation – Registration Letter as well as confirmation of the accommodation. Main registration fees are following:

I register as	Basic fee
Delegate (OECD countries)	750
Delegate (non-OECD countries)	550
Speaker/chair (OECD)	600
Speaker/chair (non-OECD)	450
One's day ticket (FISITA Education Conference)	250
Exhibitors (1 badge)	500
Post graduate student (OECD)	300
Post graduate student (non-OECD)	225
Graduate student	80
Accompanying person(s)	200

More detailed information regarding the fees and what they do include are listed in the Delegate Registration <http://www.eaec2009.com/registration/delegate> on the Congress website.

To attend the Congress as an exhibitor, there are more information in Exhibitor Brochure and Exhibitor Booking Form. Please visit the Congress website <http://www.eaec2009.com/exhibition/exhibit>.

Media representatives can apply for accreditation through <http://www.eaec2009.com/media/registration>.

After receiving the Registration Letter, pay the charged fee by bank transfer. State the participant's name in the "purpose of payment". Within 15 days since receiving the payment the organizer will send you a tax proof. When applying as early bird the registration date is the day of receiving the booking form.

IMPORTANT DATES

Nomination to exhibition: 30 May 2009

ACCOMMODATION & BOARD

Please be aware that accommodation is arranged in hotel Crowne Plaza and is handled by the organizer – E&CC INTENZIVA, Ltd in order to apply a special discount for all EAEC Congress 2009 participants. Please do not make the booking directly with the reservation department of the hotel – you might not get discounted rate. Please go to the www.eaec2009.com and then fill in the "Delegate Booking Form" or "Exhibitor Booking Form", possibly "Media Registration Form" and send it to: konferencie@intenziva.sk. After receiving fulfilled form we will make all necessary arrangements with the hotel.

Discounted prices for Congress Participants in hotel Crowne Plaza are following:

Accommodation at Hotel Crowne Plaza****	
Room type	1 night
single	130 EUR
double	155 EUR

Please note that the price for room includes breakfast, local tax, fitness centre & pool entry and internet connection.

Lunch at Hotel Crowne Plaza****	
Price with Congress discount	15 EUR/person

If from any reason you prefer to stay in other hotel we can recommend you following ones:

Hotels (close the venue)

Name	Address	Contact
Park Inn Danube****	Rybné námestie 1 813 38 Bratislava	Phone: +421 2 5934 0000 Fax: +421 2 5441 4311 reservation@hoteldanube.com www.hoteldanube.com
TATRA***	Nám.1.mája 5 811 06 Bratislava	Phone: 00421 2 59272123 Fax: 00421 2 59272135 repcia@hoteltatra.sk www.hoteltatra.sk
Devín****	Riečna 4 811 02 Bratislava	Phone: + 421 2 599 858 56 Fax: +421 2 599 858 57 reservations@hoteldevin.sk www.hoteldevin.sk
Družba** (college)	Botanická 25 842 14 Bratislava	Phone: + 421 2 599 858 56 Fax: +421 2 599 858 57 reservations@hoteldevin.sk www.hoteldevin.sk

ACCOMPANYING PROGRAMMES

Technical Tours		
Terms	Plants	Price/person
1 July, 13:30 - 17:00	Volkswagen Bratislava	15 EUR
1 July, 13:30 - 17:30	Brose, Lear, Johnson Controls (production) – Lozorno	15 EUR
3 July, 9:00 - 17:00	KIA – Žilina, Johnson Controls (R&D Centre) – Trenčín	25 EUR
3 July, 9:00 - 13:00	PSA Peugeot – Citroen Trnava	20 EUR

Social Events		
Terms	Events	Place
29 June 2009	EAEC Congress Welcome	Hotel Crowne Plaza
30 June 2009	Gala Dinner (100 EUR/pers)	Hotel Bonbon
1 July 2009	AUTODAY Dinner	Hotel Tatra

Cultural Programmes		
Terms	Events	Price/person
29 June, 13:30 - 17:00	Walking tour of the historical city centre of Bratislava – (including guide and incoming charges)	15 EUR
A three-hour-long tour of the most important and most famous sightseeing places in the old historical centre of Bratislava		
30 June, 08:00 - 12:30	Sight seeing cruise on the Danube at Devín Castle (including the guide and time charter of the boat)	60 EUR
A comfortable cruise on the river Danube, with a perfect view of both banks and the historical buildings in the city centre. After that a visit of the Slavic fortress Devín, built in the 8th century, which remembers all of its Celtic, Romanian, Slavic and Hungarian inhabitants		
30 June, 10:30 - 16:00	Walking tour of the Spa Piešťany (including lunch, guide and transport)	50 EUR
Due to its thermal water sources and now well-known healing hot springs, the area of today's Piešťany was inhabited by our ancestors already in the post tertiary era – 20 000 years BC. Later it was a favourite and precious imperial property. People travel here to relax and enjoy the healing water as well as Piešťany's beautiful architecture, to be seen at Napoleons Spa or the Colonnade Bridge, which only improves the calm and "curing" atmosphere of this picturesque town.		
1 July, 10:30 - 16:00	Walking tour of the historical city centre of Bratislava – (including guide and incoming charges)	15 EUR
A three-hour-long tour of the most important and most famous sightseeing places in the old historical centre of Bratislava		
2 July, 9:00 - 13:00	Sight seeing cruise on the Danube at Devín Castle (including the guide and time charter of the boat)	60 EUR
A comfortable cruise on the river Danube, with a perfect view of both banks and the historical buildings in the city centre. After that a visit of the Slavic fortress Devín, built in the 8th century, which remembers all of its Celtic, Romanian, Slavic and Hungarian inhabitants		

2 July, 9:00 - 13:00	Walking tour of the Spa Piešťany (including lunch, guide and transport)	50 EUR
Due to its thermal water sources and now well-known healing hot springs, the area of today's Piešťany was inhabited by our ancestors already in the post tertiary era – 20 000 years BC. Later it was a favourite and precious imperial property. People travel here to relax and enjoy the healing water as well as Piešťany's beautiful architecture, to be seen at Napoleons Spa or the Colonnade Bridge, which only improves the calm and "curing" atmosphere of this picturesque town.		
3 July, 9:00 - 17:00	Along the Small Carpathians (Modra, Pezinok, Červený Kameň-Castle)	80 EUR
On this all-day trip you will visit the best known wine-making towns in this region – Pezinok and Modra. Both Small Carpathian towns have a long history and used to be one of the richest and most favourite imperial towns of the 17th and 18th century. After a visit of a hand-made majolica manufactory, you will enjoy the wine tasting of the best wine sorts in one of Pezinok's wine cellars. A visit of the Červený Kameň castle follows, where you will admire the magnificent rooms full of antique furniture, elegant paintings and hunting trophies or watch the hawkers' show.		

CANCELLATION POLICY

The organizer reserves the right to cancel the event. Should the event be cancelled we will arrange a full refund. All cancellations by the client must be made in writing, at least 30 days before the event. A 20% registration cancellation fee for processing will be deducted from the full registration refund. Please note that should you cancel your registration less than 30 days prior to the actual starting date of the event, your registration fee shall not be refunded. Should this occur a substitute delegate (exhibitor) may attend at no extra charge.

PICTURES OF HOTEL CROWNE PLAZA



PICTURES FROM BRATISLAVA



PICTURES FROM SPA PIEŠTANY



PICTURES ČERVENÝ KAMEŇ CASTLE



