

Maps of Belgrade



Medjunarodni naučno-stručni skup sa izložbom
XXII NAUKA I MOTORNA VOZILA 2009
 JUMV International Automotive Conference with Exhibition

14 - 16 April, Beograd, Serbia



FINAL PROGRAMME



Automotive Engineering for Improved Safety



Welcome to Belgrade

Maintaining the tradition, JUMV is organizing the 22nd International Automotive Conference **SCIENCE AND MOTOR VEHICLES** in Belgrade, on 14 to 16 April 2009 under the motto **AUTOMOTIVE ENGINEERING FOR IMPROVED SAFETY**.

The Automotive Conference "Science and Motor Vehicles" was established in 1967 and has since become an important international forum of Automotive Engineers in Serbia, Balkans and Central-Eastern Europe. It promotes the exchange of engineering and scientific knowledge and experience at the highest quality level between experts from different countries.

The 2009 conference will demonstrate continuity, tradition, and quality of 21 previously held similar conferences. It is an opportunity for participants to assess the development, applied scientific and engineering results of experts in automotive engineering, with particular emphasis to improved safety.

This two-and-a-half day Conference consists of two parts: Workshop to be held in Serbian Language on Tuesday, 14 April 2009, and dedicated specials & technical sessions in English Language, which are organized and / or chaired by highly ranked international moderators in presentation panels.

The conference is aimed at covering the following aspects of automotive engineering:

- Simulation in Automotive Engineering
- Vehicle Safety
- Powertrain, Riding & Vehicle Comfort
- 5E - Engines, Emission, Ecology, Environment & Energy
- Fair Repair & Automotive Logistics

Organization and Patronage Information

22nd JUMV International Automotive Conference SCIENCE AND MOTOR VEHICLES 2009 is organized by JUMV – The Society of Automotive Engineers of Serbia, and co-organized both by the Faculty of Mechanical Engineering of the University of Belgrade, and its Innovation Center. Patronage to the Conference is granted by:

- FISITA - International Federation of Automotive Engineers Societies
- EAEC - European Automotive Engineers Cooperation
- EVU - European Association for Accident Reconstruction and Analyses
- SANU - Serbian Academy of Science and Art
- AINS - Academy of Engineering Sciences of Serbia
- Ministry of Science and Technology of Serbia (to be confirmed).

International Programme Committee

- Prof. Dr. Jovan Todorović, (ret.) University of Belgrade & JUMV, Serbia
- Prof. Dr.-Ing. habil. Egon-Christian von Glasner, EVU, Germany
- Prof. Dr.-Ing. Sigmar Micke, Germany
- Prof. Gabriele Virzi Mariotti, University of Palermo, Italy
- Prof. Gianfranco Rizzo, University of Palermo, Italy
- Prof. Dr. Ferdinand Trenc, University of Ljubljana, Slovenia
- Prof. Dr. Jan Lešinsky, Technical University of Bratislava, Slovakia
- Prof. Dr. Konstantinos Spentzas National TU Athens, Greece
- Prof. Dr. Aleksandar Subić, RMIT University, Melbourne, Australia
- Dr. Stojan Čučuz, Visteon, Germany
- Prof. Dr. Dušan Gruđen, Germany
- Mr. Alexander Berg, Dekra Automobile GmbH, Germany
- Dr. Branislav Basara, AVL List GmbH, Austria
- Dr. Marko Tirović, Reader, Cranfield University, UK
- Dr. Matyaş Matolcsy, GTE, Hungary
- Prof. Dr. Čedomir Duboka, University of Belgrade & JUMV, Serbia



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Student

Arrival date: _____ Departure date: _____



Congress Dinner on Wednesday, 15 April 2009 at a price of 50 € per person

Payment method preference:



Bank Money transfer



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REGISTRATION CONDITIONS & CANCELLATION POLICY



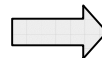
This form is an official purchase order. Failing payment registration fee on the day of the Conference at the latest JUMV regrets entry to the Conference will not be allowed.



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No charge for cancellations received before 1 March 2009. Cancellation received after 25 March 2009 will result in cancellation fee of 30% of registration fee. No refunds for cancellations after 10 April 2007. No charge for substitutions at any time.



Please fill-in and fax this form to +381-11-3228-079 or Email it to cduboka@eunet.yu
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Visit www.jumv.org.rs/nmv2009 for more information !

Conference Venue

22nd JUMV International Automotive Conference 2009 is hosted by Belgrade, the Capital of Serbia. The venue for the International part of Conference will be SANU – Serbian Academy of Science and Art, SRB-11000 Belgrade, Kneza Mihaila 35.

Advertising, Promotional & Sponsorship Opportunities

All authors, the companies from where they come and other companies are invited to benefit the Advertising, Promotional & Sponsorship Opportunities of this Conference, which are tailored to fit their individual needs.

For more information please visit www.jumv.org.rs/nmv2009 or contact the JUMV by Phone, Fax or E-mail.

Accommodation

Accommodation is warmly recommended in the hotels within the walking distance from the Serbian Academy of Science and Arts, like

Palace Hotel Beograd, 4 star, 23 Topličin venac street, www.palacehotel.co.yu, email office@palacehotel.co.yu

Royal Hotel, 3 star, 56 Kralja Petra street, www.hotelroyal.co.yu, email toplice@net.yu, and **Kasina Hotel**, 3 star, 35 Terazije street, <http://www.hotels.co.yu/>

For information concerning accommodation you may also contact the official JUMV Tour operator TOMAS Tours, SRB-11120 Belgrade, Miročka 6

Phone: +381 11 3235-653, 3030-305, Fax: +381 11 3238-431

E-mail: toma.s@eunet.rs, www.tomas.co.rs

Contact person: Mr. Toma Stojić, General Manager

Donator to the Conference



Office Support

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Faculty of Mechanical Engineering, SRB-11120 Belgrade 35, POB 34. K.Marije 16, Serbia

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Laboratory for Automotive Forensic Engineering

Conference Contact Information

JUMV c/o Faculty of Mechanical Engineering

SRB-11120 Belgrade 35, POB 34. K.Marije 16, Serbia

Phone: (+381-11) 3370-358, 3370-652, 3302-288, 3302-390, 3340-762

Fax: (+381-11) 3370-652, 3370-364, 3228-079, or

E-mail: cduboka@jumv.org.rs, cduboka@eunet.rs, cduboka@mas.bg.ac.yu

<http://www.jumv.org.rs/nmv2009>

Who should attend?

Automotive engineers and scientists, Road traffic safety engineers, Accident reconstruction experts, Managers from automotive and supply industry, Academia associates, Governmental officers, Students and young engineers in automotive engineering and other related engineering sciences are invited to present results of their research, development and engineering work, and to take part at the Conference.

This Conference provides unique opportunities for participants to establish new professional and personal contacts, to exchange with other participants the results of their engineering activities, experience and expertise, and to learn more about automotive and supply industry in Serbia in order to open new business opportunities for their companies. Serbia is nowadays a country of challenges and opportunities for all those willing to extend their business to this part of Europe.

This Conference is also an opportunity for foreign participants to learn more about Serbia, and to enjoy the traditional hospitality of this part of Europe.

Schedule of Sessions

AutoGorIng'09 - Conference in Serbian Language - Tuesday, 14 April 2009

The national part of the Conference will be held at the **Faculty of Mechanical Engineering, University of Belgrade**. It will consist of the **Workshop in Serbian Language** dedicated to **Automotive Forensic Investigation Methods**.

For more details please visit appropriate JUMV web site pages in Serbian Language.

Registration of international attendees with Welcome Drink

Will be held on **Tuesday, 14 April 2009** between **19h00 and 20h00** in the building of the **SANU – Serbian Academy of Science and Arts**, Kneza Mihaila 35.

International Conference – Wednesday, 15 April & Thursday, 16 April 2009

International Conference will be held on **Wednesday, 15 April 2009 and Thursday, 16 April 2009** in the building of the **SANU – Serbian Academy of Science and Arts**, Kneza Mihaila 35, in line with the following Conference Schedule.

Date & Time	Wednesday 15 April 2009	Thursday 16 April 2009	
	SANU - Serbian Academy of Science and Art – Main Hall 2 nd Floor		
09h00 - 13h30	AutoSim Special Session on Simulation in Automotive Engineering	"5E" Session Engines, Emissions, Ecology, Environment, Energy	
	"Fair Repair" Special Session	Automotive Logistics*	Safety Session I
13h30	Lunch		
14h30	Special Session with the Guest Speakers	Safety Session II Session on Powertrain, Riding & Comfort	
18h00	Conference Close		
20h00	Conference Dinner		

* The session will be held in the First floor Hall

**Special Session on
SIMULATIONS IN AUTOMOTIVE ENGINEERING**
Organized & chaired by Doz. Dr. Branislav Basara, AVL List GmbH, Graz, AUT
Wednesday, 15 April 2009 at 09h00, Main Hall 2nd Floor

THE INTEGRATION OF CAE IN AVL'S PRODUCT DEVELOPMENT PROCESS

M. Suffa, AVL List GmbH, Advanced Simulation Technologies, and **F. Zieher**, **A. Ennemoser**, **H. Grantner**, AVL List GmbH, Powertrain Engineering, Graz, AUT

HYBRADIZATION OF RANS AND LES CONCEPTS FOR COMPUTING INDUSTRIAL AND ENVIRONMENTAL FLOWS: A PERSPECTIVE

K. Hanjalić, 'Sapienza' University of Rome, ITA/Delft University of Technology, HOL

SHAPE OPTIMIZATION OF A DOUBLE-DECK BUS FOR IMPROVED AERODYNAMIC STABILITY

S. Krajnović, Chalmers University, Department of Applied Mechanics, SWE
B. Basara, AVL List GmbH, Advanced Simulation Technologies, Graz, AUT

COMPUTATIONAL MODELLING OF CAR AERODYNAMICS BY RELEVANCE TO A CAR-TRUCK OVERTAKING PROCESS

S. Jakirlić, **F. Aldudak**, **C. Tropea**, Technische Universität Darmstadt, GER,
B. Basara, AVL List GmbH, Advanced Simulation Technologies, Graz, AUT

NUMERICAL SIMULATIONS OF CANOPY VEGETATION INFLUENCE ON FLOW, TURBULENCE AND PASIVE SCALAR DISPERSION IN STREET CANYONS

S. Kenjereš, **B. ter Kuile**, **L. Tan**, Delft University of Technology, HOL

RELATION OF MODELLING AND MEASUREMENT IN DESIGN OF POSITIVE DISPLACEMENT MACHINES

N. Stošić, **A. Kovacević**, City University London, UK.

SIMULATION APPROACH FOR THE QUENCHING PROCESS OF INTERNAL COMBUSTION CYLINDER HEAD

D. Greif*, **V. Srinivasan****, **Z. Kovacic***, **D. M. Wang****, **M. Suffa*****
*AVL AST Maribor, SLO, **AVL Powertrain Engineering Inc, Plymouth, Michigan, USA,
***AVL List GmbH, Graz, AUT

TRACKING OF PROPAGATING TURBULENT FLAMES AND AUTOIGNITION IN ENCLOSURE

S.M. Frolov, **V.S. Ivanov**, **V.A. Smetanyuk**, **B. Basara**, Semenov Institute of Chemical Physics, Moscow, RUS/ AVL List GmbH, Advanced Simulation Technologies, Graz, AUT

TURBULENCE MODELING FOR IN-CYLINDER FLOWS IN ENGINES

B. Basara, AVL List GmbH, Advanced Simulation Technologies, Graz, AUT

Language

English is the official Conference language. Only National Session will be held in Serbian.

Important Dates

April 14, 2009 @ 19h00 Registration – Serbian Academy of Science and Arts (SANU)
April 14, 2009 @ 19h00 Welcome Drink - SANU
April 15, 2009 @ 9h00 International Conference beginning – SANU
April 15, 2009 @ 20h00 Conference Dinner – Aeroklub
April 16, 2009 @ 18h00 International Conference Close – SANU

Visa & Letters of Invitation

Majority of participants will be allowed to enter Serbia without visa.

However, in order to avoid any misunderstandings, participants are kindly requested to visit www.mfa.gov.yu/Visas/VisasR.htm for an updated information concerning the visa regime for those wishing to enter Serbia or to contact the nearest Consular Offices or Diplomatic Missions of the Republic of Serbia in their country. Upon request, JUMV will provide personal invitation letter to any participants.

Registration

Registration fee will be € 375.00 for authors and € 400.00 for other attendees.

Walk-ins to the conference will not be accepted.

Registration includes admission to Special & Technical Sessions, Welcome Drink, refreshment at Coffee Breaks and catered luncheons. Conference Dinner fee is € 50,00
Note: VAT included, Local Bank handling cost not included.

Upon request, special registration fee rates will be offered to students, young engineers, JUMV trusted partners, etc.

To register, please download and fill-in the Registration form from www.jumv.org.rs/nmv2009 or fill-in the enclosed Registration Form and mail/fax it to JUMV.

Please make Money Transfer payment in EUR in accordance with the following instructions

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**Technical Session
AUTOMOTIVE LOGISTICS**

Chaired by Prof. Dr. Jovan Todorović, (ret.) University of Belgrade, SRB
Thursday, 16 April 2009 at 12h30, 1st Floor Hall

THE CONCEPT AND INSTALLATION OF BRAKE DRUM MASS PRODUCTION

F. Klemen, Cimos TAM, **G. Bombek**, Faculty of Mech. Engrg., University of Maribor, SLO

ADVANCED LASER-BASED DIMENSIONAL METROLOGY FOR IN-PROCESS AUTOMATION OF RUBBERIZED CORD PRODUCTION FOR HIGH PERFORMANCE TIRES MANUFACTURING

P. Petrović, **Z. Jakovljević**, **M. Pilipović**, **Ž. Spasić**, University of Belgrade, SRB

VIRTUAL MANUFACTURING-AUTOMOTIVE COMPONENT MANUFACTURER EXAMPLES

M. Pilipović, **Ž. Spasić**, **P. Petrović**, **Z. Jakovljević**, University of Belgrade, SRB

THE COMPARATIVE ANALYSIS OF THE QUALITY OF MANUFACTURING PLANETARY GEAR TRAINS BASED ON MEASURING EFFICIENCY

S. Troha, University of Rijeka, CRO, **D. Karaivanov**, University of Chem. Tech., Sofia, BUG

COMPLEX DEPENDABILITY PROCEDURE FOR REDUNDANT VEHICLE SYSTEMS

T. Fülep, Dept. of Automobiles, Budapest University of Technology and Economics, HUN

RECYCLING POSSIBILITIES OF SHREDDED LIGHT FRACTION COMING FROM CAR WRECKS

Zs. Ujsaghy, Dept. of Automobile, Budapest University of Technology and Economic, HUN

UPGRADING OF THE INFORMATION SYSTEM FOR PUBLIC TRANSPORT MANAGEMENT

V. Momčilović, **A. Manojlović**, **D. Vujanović**, **V. Papić**, Faculty of Transport & Traffic Engineering, University of Belgrade, SRB

**Technical Session
"POWERTRAIN, RIDING & COMFORT"**

Chaired by Prof. Dr. Aleksandar Subić, RMIT University, Melbourne, AUS
Thursday, 16 April 2009 at 16h00, Main Hall 2nd Floor

INTEGRATED POWERTRAIN MODELLING TO ENHANCE COMFORT OF HEAVY DUTY VEHICLES

B. Trencsényi, **H. Németh**, Dept. of Automobile, Budapest University of Technology and Economic, HUN

CHAOTIC BEHAVIOR OF MECHANICAL VIBRO IMPACT SYSTEM WITH TWO DEGREES OF FREEDOM AND POSSIBILITIES OF CHAOTIC BEHAVIOR OF QUARTER VEHICLE MODEL

A. Kostić, **M. Kosevski**, **Lj. Kočarev**, **D. Danev**, **I. Gjurkov**, Faculty of Mechanical Engineering, Skopje, MK

MAXIMISING DRIVABILITY OF A CVT HYBRID DRIVELINE BY POWERSHIFT AND DYNAMIC ENGINE START

B.-R. Höhn, **H. Pflaum**, **T. Dräxl**, Lehrstuhl für Maschinenelemente, TU München, GER

IMPACT OF CLEARANCE TO THE LOAD OF ELEMENTS OF TRANSMISSION OF MOTOR VEHICLES

M. Damjanović, **R. Durković**, University of Podgorica, MNE

THEORETICAL AND EXPERIMENTAL ANALYSES AND MODELLING OF VEHICLE SUSPENSION KINEMATICS

S. Simović, **R. Durković**, University of Podgorica, MNE

**Special Session on
"FAIR REPAIR"**

Chaired by Mr. Frank Leimbach, DEKRA Automobil GmbH, Stuttgart, GER
Wednesday, 15 April 2009 at 12h30, Main Hall 2nd Floor

THE PROJECT "FAIR REPAIR" A CONTRIBUTION TO HIGHLIGHT POSSIBLE IMPACTS OF NONPROFESSIONAL REPAIR ON THE QUALITY AND SAFETY OF VEHICLES

F. A. Berg*, **P. Rücker***, **F. Leimbach* ****, **H. Kiebach****, Dekra Automobil GmbH, Technology Center Stuttgart, ** KTI GmbH & Co. KG, Lohfelden, GER

THEORETICAL ANALYSES OF NONPROFESSIONAL REPAIRS ON QUALITY AND SAFETY OF ROAD VEHICLES USING FINITE ELEMENT METHODS

E. C. Chirwa, **G.K. Chinnaswamy**, **E. Matsika**, **S. Nowpada**, University of Bolton, UK
F. A. Berg, **F. Leimbach**, Dekra Automobil GmbH, Technology Center Stuttgart, GER

SECOND HAND VEHICLES MAINTENANCE FRAUDS

Č. Duboka, University of Belgrade, **Ž. Filipović**, AMS Insurance, **M. Gordić**, **M. Došlić**, AMSS – Center for Motor Vehicles, Belgrade, SRB

Special Session "GUEST SPEAKERS"

Chaired by Prof. Dr. Čedomir Duboka, University of Belgrade, SRB
Wednesday, 15 April 2009 at 16h00, Main Hall 2nd Floor

FISITA MESSAGE 2009

Dr. A. Voith, GTE, Budapest, HUN

INFLUENCE OF THE TYRE CHARACTERISTICS ON THE BRAKING AND STEERING PERFORMANCE OF COMMERCIAL VEHICLES

Prof. Dr.-Ing. Habil., Dr. h.c E. - C. von Glasner, EVU Graz, Daimler (ret.), GER

DETERMINING OFF ROAD TYRES TRACTION CHARACTERISTICS

Dr. M. Tirović, Reader, Cranfield University, UK

DRIVER ASSISTANCE SYSTEMS – STATUS 2009

Prof. Dr.-Ing. S. Micke, Robert Bosch (ret.), GER,
Prof. Dr.-Ing. Habil., Dr. h.c E. - C. von Glasner, EVU Graz, Daimler (ret.), GER

DRIVER'S AND CREW PROTECTION IN FRONTAL COLLISION OF BUSES

Dr. M. Matolcsy, GTE, Budapest, HUN

COMPARISON OF DIFFERENT NO_x REDUCTION TECHNOLOGIES IN TERMS OF EMISSION REDUCTION POTENTIAL, FUEL ECONOMY & COST EFFECTIVENESS

A. Capelle, **J. Nothbaum**, **Dr. S. Čučuz**, Visteon, Deutschland GmbH, Kerpen, GER

MEDIUM TERM PROJECTION OF ENERGY CONSUMPTION AND TRANSPORT ACTIVITY IN SLOVENIA

Dr. T. Katrašnik*, **Š. Ivanjko****, **Prof. Dr. F. Trenc***, **Dr. S. Rodman Oprešnik***,
*University of Ljubljana and **Electric Power Research Institute, SLO

Technical Session "5E"
ENGINES – EMISSIONS – ECOLOGY – ENVIRONMENT - ENERGY
 Chaired by Prof. Dr. Ferdinand Trenc, University of Ljubljana, SLO
Thursday, 16 April 2009 at 09h00, Main Hall 2nd Floor

VORTEX RING-LIKE STRUCTURES IN GASOLINE FUEL SPRAYS

S. S. Sazhin, University of Brighton, UK, **F. Kaplanski**, Tallin University of Technology, Estonia, **S. Begg**, **M. R. Heikal**, University of Brighton, UK

ENERGETIC PERFORMANCE OF MONOLITH AND RANDOM PACKED BEDS AFTERTREATMENT SYSTEMS

A. Algieri, **M. Amelio**, **P. Morrone**, Mechanics Department, University of Calabria, ITA

ALTERNATIVE DIESEL FUELS AND EXHAUST EMISSIONS

R. Gligorijevic, **J. Jevtic**, **Dj. Borak**, IMR Institute, Belgrade, SRB

HYDROGEN BASED OPERATION OF INTERNAL COMBUSTION ENGINES

G. Budik, Dept. of Automobiles, Budapest University of Technology and Economics, HUN

MULTIBODY NUMERICAL SIMULATION OF AN INTERNAL COMBUSTION ENGINE WITH APPRAISAL OF THE WEAR DAMAGE

G. Virzì Mariotti, **V. I. Caviglia**, Dipartimento di Meccanica, Università di Palermo, ITA

COMBUSTION PHASING IN AN OPTICAL GASOLINE ENGINE OPERATING IN THE LIMIT OF SPARK-ASSISTED, CONTROLLED AUTO-IGNITION

S.M. Begg, **D. Parmenter***, **D.J. Mason**, **M.R. Heikal**, Sir Harry Ricardo Laboratories, Centre of Automotive Engineering, University of Brighton, and *Ibid Formerly, UK

EXPERIMENTAL INVESTIGATION OF THE CHARACTERISTICS OF OIL BEHAVIOUR IN AN IDEALISED ENGINE CRANKCASE

S.M. Begg, **G. de Sercey**, **M. Heikal**, Sir Harry Ricardo Laboratories, University of Brighton, UK, **R. Gilchrist**, Ricardo plc, UK, **Y. Noda**, **Y. Tsuruoka**, **Y. Mamiya**, Nissan Motor Co., Ltd, JPN

HISTORY IN MAKING - 10 YEARS OF FORD FUEL CELL VEHICLES

M. Milačić, Research & Advanced Engineering, Ford Motor Company, Detroit, USA

ECONOMIC AND DYNAMICAL ANALYSIS OF COMPRESSED NATURAL GAS FUELLED VEHICLES

N. Pezsa, **Zs. Ujsaghy**, **A. Gubovits**, **B. Trencseni**, Dept. of Automobiles, Budapest University of Technology and Economics, HUN

ANALYSIS AND COMPARISON OF CONVENTIONAL AND HYBRID LIGHT DUTY VEHICLES UNDER URBAN DISTRIBUTOR SITUATION

B. Szabó, **H. Németh**, Dept. of Automobiles, Budapest University of Technology and Economics, HUN

THE NON-CONVENTIONAL FUELS AND NOXIOUS

V.D. Negrea, **A. Tokar**, **A. Negoitescu**, **D. Ostoia**, **D.A. Negrea**², Politehnics University Timisoara, ²Institute of Public Health "Prof. L. Georgescu", Timisoara, ROM

THE APPLICATION OF HYBRID DRIVE TECHNOLOGY IN CITY BUSES

Z. Živanović, **Dj. Diligenski**, **Ž. Šakota**, Institute Vinča, Belgrade, SRB

Technical Session
VEHICLE SAFETY
 Chaired by Dr. Marko Tirović, Cranfield University, UK
Thursday, 16 April 2009 at 12h30, Main Hall 2nd Floor

INFLUENCE OF GEOMETRY MODIFICATIONS OF VEHICLE BODY JOINTS ON THEIR STRUCTURAL BEHAVIOUR

G. Belingardi, **J. Obradović**, Mech. Engineering Department, Politecnico di Torino, ITA

UTILISING LATENT BENEFITS OF SUBSTRUCTURES IN COMPUTER AIDED DESIGN AND OPTIMISATION OF COMPLEX VEHICLE ASSEMBLIES

M. Kajtaz, **A. Subić**, **M. Takla**, RMIT University, School of Aerospace, Automotive and Manufacturing Engineering, Melbourne, AUS

DESIGN AND ANALYSIS OF IMPACT RESISTANT FLEXIBLE BOLLARD

A. Ianakiev, School of Built Environment, Nottingham Trent University, UK

THE GIS-WEB APPLICATION FOR A BETTER KNOWLEDGE OF THE ROAD ACCIDENT CHARACTERISTICS - A STUDY ON PEDESTRIAN AND VEHICULAR MOBILITY SAFETY

S. Amoroso, **L. Caruso**, University of Palermo, ITA

ACTIVE SAFETY WITH DEDICATED SHORT RANGE COMMUNICATIONS

M. Simić, **M. Dekić**, RMIT University, School of Aerospace, Automotive and Manufacturing Engineering, Melbourne, AUS

BLIND SPOT WARNING SYSTEMS SOLUTIONS

M. Simić, RMIT University, School of Aerospace Automotive and Manufacturing Engineering, Melbourne, AUS

DEVELOPMENT POSSIBILITIES OF INTEGRATED WHEEL END CONTROL

B. Szabó, **G. Bari**, Dept. of Automobile, Budapest University of Technology and Economic, HUN

HOMOLOGISATION PROCESS FOR ESP BASED VEHICLE MODELS

A. Gubovits, Department of Automobile, Budapest University of Technology and Economic, HUN

MULTI-DISC WET BRAKE SYSTEM FOR HEAVY DUTY TRACTORS.

K. Szócs, **M. András**, RABA Axle Ltd., **Z. Horváth**, **T. Gergye**, Széchenyi István University, Győr, HUN

NUMERICAL STUDY OF THE PHENOMENON OF "BRAKE SQUEAL" IN THE DISC BRAKES - FIRST RESULTS

G. Virzì Mariotti, **D. Bonaccolla**, **M. Saitta**, Dipartimento di Meccanica, Università degli Studi di Palermo, ITA

SOLVING OF BRAKE DRUM SQUEALING PROBLEM

G. Bombek, Faculty of Mech. Engrg., University of Maribor, **D. Vranešević**, Cimos R&D Maribor, SLO