



Međunarodni naučno-stručni skup sa izložbom
XXIII NAUKA I MOTorna VOZILA 2011
SCIENCE AND MOTOR VEHICLES 2011
JUMV International Automotive Conference with Exhibition

19 - 21 April, Belgrade, Serbia

FISITA '86

FINAL PROGRAMME

Automotive Engineering for Improved Safety



With the financial support provided by the
Republic of Serbia - Ministry of Science and Technological Development

Welcome to Belgrade

Maintaining the tradition, JUMV is organizing the 23rd International Automotive Conference **SCIENCE AND MOTOR VEHICLES** in Belgrade, on 19 to 21 April 2011 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 2011 conference will demonstrate continuity, tradition, and quality of 22 previously held conferences. It is an opportunity for participants to assess the development, applied automotive engineering expert scientific and engineering results with particular emphasis to improved safety.

This three day Conference consists of two parts: International part to be held in English language in the Serbian Academy of Science on the first day (19 April 2011) and at the Faculty of Mechanical Engineering on other two days (Wednesday 20 April and Thursday 21 April 2011).

The "Special West Balkans Conference" (in Serbian, Bosnian and Croatian language) will be held on Thursday, 21 April 2011 at the Faculty of Mechanical Engineering.

International part of the Conference consists of the following special & technical sessions:

- AutoSim 2011 – Special Session on Simulation in Automotive Engineering – organized and chaired by Doz. Dr. Branislav Basara, List GmbH, Advanced Simulation Technologies, Graz, AUT
- Safety (Vehicle & Traffic Safety, Vehicle Safety Performance, Road Accident Reconstruction and Analyses, Vehicle Safety Regulations)
- 5E - Engines, Emission, Ecology, Environment & Energy
- Advanced Engineering Technologies & Tools
- Automotive Logistics, including Vehicle Maintenance & After-Sales Support

International part of the Conference will be held in English language.

Organization and Patronage Information

23rd JUMV International Automotive Conference SCIENCE AND MOTOR VEHICLES 2011 is organized by JUMV – The Society of Automotive Engineers in Serbia, and co-organized both by the Faculty of Mechanical Engineering of the University of Belgrade, and its Innovation Center. Patronage to the Conference was granted by:

FISITA - International Federation of Automotive Engineers Societies
 EAEC - European Automotive Engineers Cooperation
 SANU - Serbian Academy of Science and Art
 EVU - European Association for Accident Reconstruction and Analyses
 AINS - Academy of Engineering Sciences of Serbia

Ministry of Science and Technological Development of Serbia grants financial support.

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 Gruden, Germany
 Mr. Alexander Berg, Dekra Automobile GmbH, Germany
 Dr. Branislav Basara, AVL List GmbH, Austria
 Dr. Marko Tirović, Reader, Cranfield University, UK
 Dr. Matyas Matolcsy, GTE, Hungary
 Prof. Dr. Cedomir Duboka, University of Belgrade & JUMV, Serbia

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

Monday, 18 April 2011 - Registration of international attendees with Welcome Drink

To be held on **Monday, 18 April 2011** starting at **19h00** in the building of the **SANU – Serbian Academy of Science and Arts**, Kneza Mihaila 35.

International Conference – Tuesday, 19 April to Thursday, 21 April 2011

The Conference is to be held on **Tuesday, 19 April 2011** in **SANU – Serbian Academy of Science and Arts**, Kneza Mihaila 35, and at the **Faculty of Mechanical Engineering**, Kraljice Marije 16., on **Wednesday, 20 April 2011** and **Thursday, 21 April 2011**.

The Conference Schedule is as follows:

Date, Time & Place	Tuesday	Wednesday	Thursday
	19 April 2011	20 April 2011	21 April 2011
	SANU - Serbian Academy of Science & Art		Faculty of Mechanical Engineering
09h00	AutoSim 2011 Simulation in Automotive Engineering Organized & Chaired by Doz. Dr. B. Basara, AVL	5E Engines, Emissions, Ecology, Energy, Environment Special Guest Session	AETT - Advanced Engineering Technologies & Tools Complementary Programme
12h00			
13h30	Lunch		
14h30	Safety	Automotive Logistics	SWBC – Special West Balkans Conference
17h00	Free		Conference Close
20h00	Conference Dinner		

Language

English is the official Conference language

However, Special West Balkans Conference will be held in Serbian, Croatian and/or Bosnian language. No simultaneous interpretation will be provided.

Special Session on SIMULATION IN AUTOMOTIVE TECHNOLOGY

AutoSim 2011

Organized & Chaired by Doz. Dr. Branislav Basara, AVL List GmbH, Advanced Simulation Technologies, Graz, AUT



Key-Note Presentation - Prof. Kemal Hanjalic, Delft University of Technology, HOL/ Sapienza University of Rome, ITA

BLENDING THE RANS AND LES CONCEPTS FOR COMPUTING INDUSTRIAL AND ENVIRONMENTAL FLOWS: A PERSPECTIVE

AutoSim02
 AERODYNAMICS AND MIXING CHARACTERISTICS OF A MODEL COMBUSTOR: A HYBRID LES/RANS STUDY

AutoSim03
 CAPTURING TRANSIENTS IN TURBULENT FLOWS OVER COMPLEX HETEROGENEOUS URBAN AREAS AT LABORATORY SCALES

AutoSim04
 APPROPRIATE USAGE OF LARGE EDDY SIMULATION IN ROAD VEHICLE AERODYNAMICS

AutoSim05
 ADVANCED DESIGN ENVIRONMENT FOR SCREW MACHINES IN AUTOMOTIVE INDUSTRY

AutoSim06
 EFFECT OF ENERGETIC POWDER ADDITIVES ON FUEL DROP AUTOIGNITION AT CONDITIONS RELEVANT TO DIESEL ENGINE

AutoSim07
 SIMULATION OF NOX AND SOOT FORMATIONS IN ENGINE

AutoSim08
 OVERVIEW OF MULTIPHASE CFD APPLICATIONS IN AUTOMOTIVE INDUSTRY

AutoSim09
 PANS vs. RANS FOR COMPUTATIONS OF THE FLOW THROUGH INTAKE ENGINE PORTS

AutoSim10
 DEVELOPMENT OF NEXT-GENERATION VIBRATION - FATIGUE SOFTWARE AND CATIA INTEGRATION FOR THE AUTOMOTIVE INDUSTRY

AutoSim11
 IMPROVEMENT OF REFRIGERANT DISTRIBUTION IN PARALLEL EVAPORATOR CHANNELS OF AUTOMOTIVE AIR CONDITIONING BY COMPUTATIONAL MULTI-FLUID DYNAMICS

AutoSim12
 SELECTION OF OPTIMAL VEHICLE DESIGN ACCORDING TO THE SPECIFIC CUSTOMER REQUIREMENTS

Panel Presentations

S. Jakiric, B. Kniesner, G. Kadavelil, C. Tropea,
 Technische Universität Darmstadt, Chair of Fluid Mechanics and Aerodynamics, Center of Smart Interfaces, Darmstadt, GER

S. Kenjeres, T. Busking
 Delft University of Technology, HOL

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

E. Mujic, N. Stosic, A. Kovacevic, I. K. Smith
 Centre for Positive Displacement Compressor Technology City University, London, UK

F. S. Frolov, S. M. Frolov
 Semenov Institute of Chemical Physics, Department of Combustion and Explosion, Moscow, RUS

F. S. Frolov*, S. M. Frolov*, V. S. Ivanov*, S. N. Medvedev*, P. A. Vlasov*, B. Basara**, M. Saffa**
 *Semenov Institute of Chemical Physics, Moscow, RUS
 **AVL List GmbH, Advanced Simulation Technologies, Graz, AUT

D. Greif*, V. Srinivasan**
 *AVL List GmbH, Advanced Simulation Technologies, Maribor, SLO
 **AVL Powertrain Engineering Inc, Plymouth, Michigan, USA

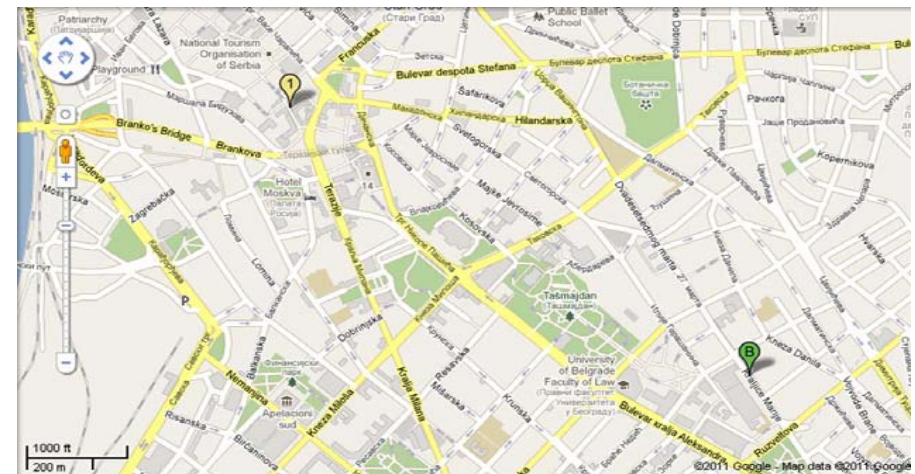
B. Basara*, Z. Pavlovic**
 *Advanced Simulation Technologies, AVL List GmbH, Graz, AUT,
 **Napredne Simulacijske Tehnologije, AVL List GmbH, Maribor, SLO

J. Slavić*, T. Opara**, R. Banov***, M. Dogan***, M. Česnik*, M. Boltežar,
 *University of Ljubljana, SLO, **CIMOS d.d., SLO
 ***CadCam Group, Zagreb, CRO

V. Stevanovic*, S. Cucuz**, W. Carl-Meissner**
 *Faculty of Mechanical Engineering, Belgrade, SRB
 **Visteon Innovation & Technology GmbH, Climate Control Systems, Kerpen, GER

Z. Sakota, Z. Zivanovic, Dj. Dilgenski, Z. Jovanovic, INN
 Vinca Belgrade, SRB

Safety2011



SAF04
 VEHICLE SAFETY PERFORMANCE INDICATORS & INDEXES

SAF06
 CHALLENGES AND POSSIBILITIES FOR ENHANCED VEHICLE FLOW AND SAFETY ON URBAN TRAFFIC

SAF07
 ACTIVE SAFETY AT THE INTERSECTION USING INTELLIGENT ROAD INFRASTRUCTURE

SAF08
 THE ROLE OF HEAVY VEHICLES IN ROAD SAFETY: TECHNICAL IMPROVEMENTS AND TRAINING OF PROFESSIONAL DRIVERS IN EU ACTIVITIES

SAF09
 INTRODUCTION OF DIGITAL TACHOGRAPH SYSTEM IN EU-AETR AND NON EU-AETR COUNTRIES

SAF10
 APPLICATION OF COUPLED FE- AND MULTI-BODY SIMULATIONS IN THE AREA OF PEDESTRIAN AND OCCUPANT SAFETY

SAF11
 IMPROVEMENT OF LATERAL VEHICLE CRASHWORTHINESS BY INTRODUCING INNOVATIVE STRUCTURAL SOLUTIONS

SAF12
 MULTIBODY MODELLING OF CHARACTERISTIC PEDESTRIAN POSITIONS FOR TRAFFIC ACCIDENTS RECONSTRUCTION

SAF13
 CRUISE CONTROL STRATEGIES OF ELECTRIC BICYCLE

SAF14
 IMPLEMENTATION OF QUALITY SYSTEM OF BRAKE ROLLER DYNAMOMETER MEASUREMENTS

SAF15
 PRELIMINARY DESIGN OF A MAGNETORHEOLOGICAL BRAKE FOR AUTOMOTIVE USE

Č. Duboka
 University of Belgrade, Faculty of Mechanical Engineering, SRB

A. Kostic, M. Kosevski
 Faculty of Mechanical Engineering Skopje, MKD

M. Djekić*, M. Derikonjić*, R. Eper*, D. Matković*, V. Jovanović**
 **Selma Ltd., Subotica,
 **JP "Subotica-trans", Subotica, SRB

S. Amoroso, L. Caruso, F. Castelludo
 Dipartimento di Ingegneria dei Trasporti, Università degli Studi di Palermo, ITA

M. Rychter
 Motor Transport Institute, Diagnostic and Servicing Process Department, Warsaw, POL

E. Ertugus*, J. Obradović**, L. Eckstein*, G. Belingardi**
 *Institut für Kraftfahrzeuge RWTH Aachen University, GER
 **Politecnico di Torino, Department of Mechanics, ITA

J. Obradović*, E. Ertugus**, G. Belingardi*, L. Eckstein**
 *Politecnico di Torino, Department of Mechanics, ITA
 **Institut für Kraftfahrzeuge RWTH Aachen University, GER

Z. Papić, V. Bogdanović, N. Ruškić, S. Kostić
 Faculty of Technical Sciences, Novi Sad, SRB

P. Boonporm, School of Mechanical Engineering, Suranaree University of Technology, Udon Thani, Thailand
 M. Haataja
 University of Oulu, Department of Mechanical Engineering /Automotive Engineering, FIN

G. V. Marannano*, G. Virzi Mariotti*, Č. Duboka**
 *DIMA - Università degli studi di Palermo ITA
 **University of Belgrade, Faculty of Mechanical Engineering, SRB

Wednesday, 20 April 2011

Faculty of Mechanical Engineering, Hall 211/II



09h00 5E – Engines, Emissions, Ecology, Environment, Energy

5E01 – Oral Only

TWENTY YEARS OF RESEARCH ON HYDROGEN FUELLED IC ENGINES AT GHENT UNIVERSITY

R. Sierens
 Laboratory of Transport Technology, Ghent University, BEG
K. Theinno^{*}, S.S. Gill^{*}, A. Tsolakis^{*}, A.P.E York^{}, A. Megaritis^{***}, R. Harrison^{*}**
^{*} University of Birmingham
^{**} Johnson Matthey Technology Centre, Reading
^{***} Brunel University, University of Birmingham, UK

5E02

DIESEL PARTICULATE FILTER REGENERATION STRATEGIES: THE STUDY OF HYDROGEN ADDITION

M. Sjerić, D. Kozarac, G. Šagi
 Faculty of Mechanical Engineering and Naval Architecture, Chair of IC Engines and Motor Vehicles, Zagreb, CRO

5E03

DEVELOPMENT OF STRATIFIED FRACTAL COMBUSTION MODEL

V. Petrović
 IMR Institute, Belgrade, SRB

5E04

METHODS FOR MEASURING AND VERIFICATION OF ULTRA FINE PARTICLES CONCENTRATION FROM DIESEL ENGINE EMISSION

M. Milačić, C. Gearhart
 Research & Advanced Engineering - Ford Motor Company, USA

5E05

SIMPLIFIED PROBABILISTIC POWERTRAIN SIZING FOR HYBRID VEHICLES

M. Tirović, D. Cross^{}**
^{*} Cranfield University
^{**} Flybrid, UK

5E06

CONCEPTUAL DESIGN OF HIGH PERFORMANCE, LOW CO₂ EMISSION HYBRID SPORTS VEHICLE USING Flybrid[®] KERS

S. Čučuz^{*}, N. Seeds^{}**
^{*} Visteon Innovati on & Technology GmbH, Kerpen, GER
^{**} Visteon Engineering Services Ltd, Chelmsford, UK

5E07

TECHNOLOGIES TO MEET EVER MORE DEMANDING POWERTRAIN COOLING REQUIREMENTS

A. Negoitescu, A. Tokar, L. Mihan
 Faculty of Mechanics, Politehnica University of Timisoara, Romania

5E08

THE IMPACT ON GREENHOUSE GASSES EMISSIONS OF THE PRODUCTION OF ELECTRIC ENERGY USED BY ELECTRIC VEHICLES

V. Croitorescu, E. Negrus, M. Oprean, C. Andreescu,
 Politehnica University of Bucharest, Automotive Engineering Department, ROM

5E09

A HARD DECISION FOR HEV MANUFACTURERS: GASOLINE HYBRID VEHICLE OR DIESEL HYBRID VEHICLE

12h00 Special Guest Session

FISITA Message

Brigadier ret. Prof. **Günter Hohl**
 FISITA Vice President Europe, EAEC President, Vice President ÖVK

SAF01

THE WRONG CHOICE OF TYRES INFLUENCING THE STABILITY OF VEHICLES

Egon-Christian von Glasner^{*}, Jörg Ahlgrimm^{}**
^{*} Prof. Dr.-Ing. habil., Dr. h.c., CEng, FIMechE, GTE, JSAE, JUMV, SAE, VDI, President of the European Association for Accident Research and Analysis (EVU)
^{**} Dipl.-Ing., Head of Forensic Engineering, DEKRA, Germany

SAF02

DRIVER ASSISTANCE SYSTEMS - STATUS 2011

László Palkovics^{*}, Egon-Christian von Glasner^{}**
^{*} Prof. Dr.-Ing., Head of Advanced Engineering, Knorr Bremse AG, HUN
^{**} Prof. Dr.-Ing. habil., Dr. h.c., CEng, FIMechE, GTE, JSAE, JUMV, SAE, VDI, President of the European Association for Accident Research and Analysis (EVU)

SAF03

EVACUATION OF BUSES – EMERGENCY EXITS

Mátyás Matolcsy
 Dr., Scientific Society of Mechanical Engineers, HUN

Wednesday, 20 April 2011 * Faculty of Mechanical Engineering, K. Marije 16 * 9h00 – 17h00

14h30 Automotive Logistics

AL01
 COMPARISON OF VEHICLE MAINTENANCE COST AMONG DIFFERENT VEHICLE TYPES

K. Jakimovska, I. Gjurkov
 Faculty of Mechanical Engineering, Ss."Cyril and Methodius" University in Skopje, MK

AL02
 A TOOL TO ESTIMATE THE WARRANTY LEVEL ACCORDING TO DESIGN CHANGES

P. Alcalde
 CITEAN, Pamplona, ESP

AL03
 TOTAL PRODUCTIVE MAINTENANCE AND OVERALL VEHICLE EFFECTIVENESS

A. Manojlović, O. Medar, V. Papić, J. Trifunović
 University of Belgrade – Faculty of Transport and Traffic Engineering, Belgrade, SRB

AL04
 RENEWAL OF SERBIAN BUS FLEET: A WAY TO REDUCE EMISSION OF POLLUTANTS

J. Trifunović, A. Manojlović, V. Momčilović, N. Redžić
 University of Belgrade – Faculty of Transport and Traffic Engineering, Belgrade, SRB

AL05
 GLOBAL APPROACH TO RECYCLING END-OF LIFE CARS TO ATTAIN SUSTAINABLE ENVIRONMENT PROTECTION

M. Jelić, P. Petrović
 Institute "Kirilo Savić", Belgrade, Serbia

Thursday, 21 April 2011

Faculty of Mechanical Engineering, Hall 211/II

09h00 AETT – Advanced Engineering Technologies & Tools

AETT01
 INTEGRATION OF ACTIVE STEERING LOGIC INTO A CLASSIC COMMERCIAL VEHICLE ESP

Z. Hankovszki, R. Kovács, L. Palkovics
 Department of Automobiles, Budapest University of Technology and Economics, HUN

AETT02
 OPTICAL MEASURING TECHNIQUES IN RECONSTRUCTION AND MODIFICATION OF VEHICLES

R. Tomić, Z. Lulić, P. Ilinčić
 Faculty of Mechanical Engineering and Naval Architecture, Chair of IC Engines and Motor Vehicles, Zagreb, CRO

AETT03
 CHARACTERIZATION OF IMPACT BEHAVIOR OF COMPOSITE CAR COMPONENTS

G. Minak^{*}, Z. Šoškić^{}, A. Pavlović^{**}, C. Fragassa^{*}**
^{*} DIEM, University of Bologna, ITA
^{**} Faculty of Mechanical Engineering Kraljevo, SRB

AETT04
 DESIGN AND APPLICATION OF GEAR WEAR ACCELERATED TESTING DEVICE WITH REVERSE MOTION

M. Ognjanović, A. Pavlović^{}, S.Čirić-Kostić^{**}, C. Fragassa^{***}**
^{*} University of Belgrade, Faculty of Mechanical Engineering, SRB
^{**} University of Kragujevac Faculty of Mechanical Engrg., Kraljevo, SRB
^{***} University of Bologna, Faculty of Mechanical Engineering, ITA

AETT05
 AN ADVANCED FLEXIBLE MULTIBODY NUMERICAL MODEL FOR DYNAMIC SIMULATIONS OF AUTOMOTIVE BELT-DRIVES

G. Čepon, M. Boltežar
 University of Ljubljana, Faculty of Mechanical Engineering, Laboratory for dynamics of machines and structures, SLO

AETT06
 COMPARATIVE ANALYSIS ON MATHEMATICAL MODELS DESCRIBING VIBRATIONS OF ROAD VEHICLES WITH DIFFERENT TYPES SUSPENSIONS

L. Kunchev, N. Pavlov
 Technical University, Sofia, BUL

AETT07
 INFLUENCE ON THE DYNAMIC BEHAVIOUR OF FULL CAR EQUIPPED WITH MAGNETORHEOLOGICAL DAMPERS VIA SWITCH ON/OFF AND h₀ CONTROLLER

G. Barbaraci, G. Virzi Mariotti
 Dipartimento di Ingegneria Industriale Università di Palermo ITA

AETT08
 MECHATRONICS APPLICATIONS IN HEAVY DUTY AGRICULTURAL TRACTOR AXLES

M. Kuslits, M. Lelkes, K. Szocs
 Rába Development Institute, Rába Axle Ltd., Gyor, HUN

AETT09
 EXPERIMENTAL RESEARCH OF MOTORCYCLE'S FRAME VIBRATION DURING ACCELERATION AND BRAKING

B. Aleksandrović, M. Džapan, R. Radonjić, A. Janković
 Faculty of Mechanical Engineering, Kragujevac, SRB

AETT10
 IMPACT OF CLEARANCE ON THE POWER TRANSMISSION LOAD IN THE PROCESS OF MOVEMENT OF MASSES THROUGH THE CLEARANCE

M. Damjanović, R. Durković, R. Bulatović, S. Simović
 Faculty of Mechanical Engineering, Podgorica, MNE

AETT11
 SIMULATION MODEL OF THE HYDROSTATIC TRANSMISSION

M. Krsmanović, A. Grkić, S. Muždeka
 Military Academy, Belgrade, SRB

Wednesday, 20 April 2011 * Faculty of Mechanical Engineering, K. Marije 16 * Thursday, 21 April 2011

Important Dates

April 18, 2011 @ 19h00 - Registration – SANU - Serbian Academy of Science and Arts
April 18, 2011 @ 19h00 - Welcome Drink - SANU
April 19, 2011 @ 09h00 - International Conference beginning – SANU
April 19, 2011 @ 20h00 - Conference Dinner
April 21, 2011 @ 18h00 - Conference Close – Faculty of Mechanical Engineering

Visa & Letters of Invitation

Majority of participants will be allowed to enter Republic of Serbia without visa. However, in order to avoid any misunderstandings, participants are kindly requested to visit <http://www.mfa.gov.rs/Consularaffairs.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 after the registration fee was paid.

Registration

Registration fee will be € 425.00 for authors and € 400.00 for all other attendees. Walk-ins to the conference will not be accepted. Early registration discount will apply for registration fee payment till the 15 January 2011. Registration includes admission to all Sessions, Conference Dinner, Welcome Drink, refreshment at Coffee Breaks and catered luncheons during the Conference.

Notes:

- Final Manuscript Conference Editing Fee (or Author's Registration Fee) also includes handling fee for paper offer and final manuscript processing)
 - 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.nmv2011.jumv.rs or fill-in the enclosed Registration Form and mail/fax it to JUMV.

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

SWIFT field No.:	Field description
59 :	Beneficiary : INOVACIONI CENTAR MASINSKOG FAKULTETA IBAN : RS35285002405557000171
57a :	Beneficiary Bank : //BL50070010 VOLKSBANK AD BEOGRAD S.W.I.F.T. Code : VBOERSBG
56a :	Intermediary : DEUTSCHE BANK AG FRANKFURT S.W.I.F.T. Code : DEUTDEEF

Please mail the copy of payment document (SWIFT) to +381-11-3228-079. Payment by Cheque or Western Union Money Transfer is also appreciated.

Conference Venues

23rd JUMV International Automotive Conference 2011 is hosted by Belgrade, the Capital of Serbia. The Conference venues for the first Conference day (Tuesday, 19. April 2011) will be SANU – Serbian Academy of Science and Art, SRB-11000 Belgrade, Kneza Mihaila 35. The Conference venues for the remaining part of the Conference will be the Faculty of Mechanical Engineering (Mašinski fakultet), SRB-11120 Belgrade, Kraljice Marije 16.

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.nmv2011.jumv.rs 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, or the Faculty of Mechanical Engineering, like **Palace Hotel Beograd**, 4 star, 23 Topličin venac 23, www.palacehotel.rs, email office@palacehotel.rs

Balkan Hotel Beograd, 4 star, Prizrenka 2, www.balkanhotel.net, recepcija@balkanhotel.net

Park Hotel Beograd, 3 star, Njegoševa 2, <http://www.hotelparkbeograd.rs>, reception@hotelparkbeograd.rs

Excelsior Hotel Beograd, 3 star, Kneza Miloša 5, <http://www.hotelexcelsior.co.rs/>

Zira Hotel Beograd, 4 star, Ruzveltova 35, <http://www.zirahotels.com/reservations@zirahotels.com>

Royal Hotel, 3 star, Kralja Petra 56, www.hotelroyal.rs, email toplice@net.rs, and

Kasina Hotel, 3 star, Terazije 35, <http://www.hotels.rs/>

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

Contact person: Mr. Toma Stojić, General Manager
 Phone: +381 11 3235-653, 3030-305, Fax: +381 11 3238-431
 E-mail: toma.s@eunet.rs, www.tomas.rs

Office Support

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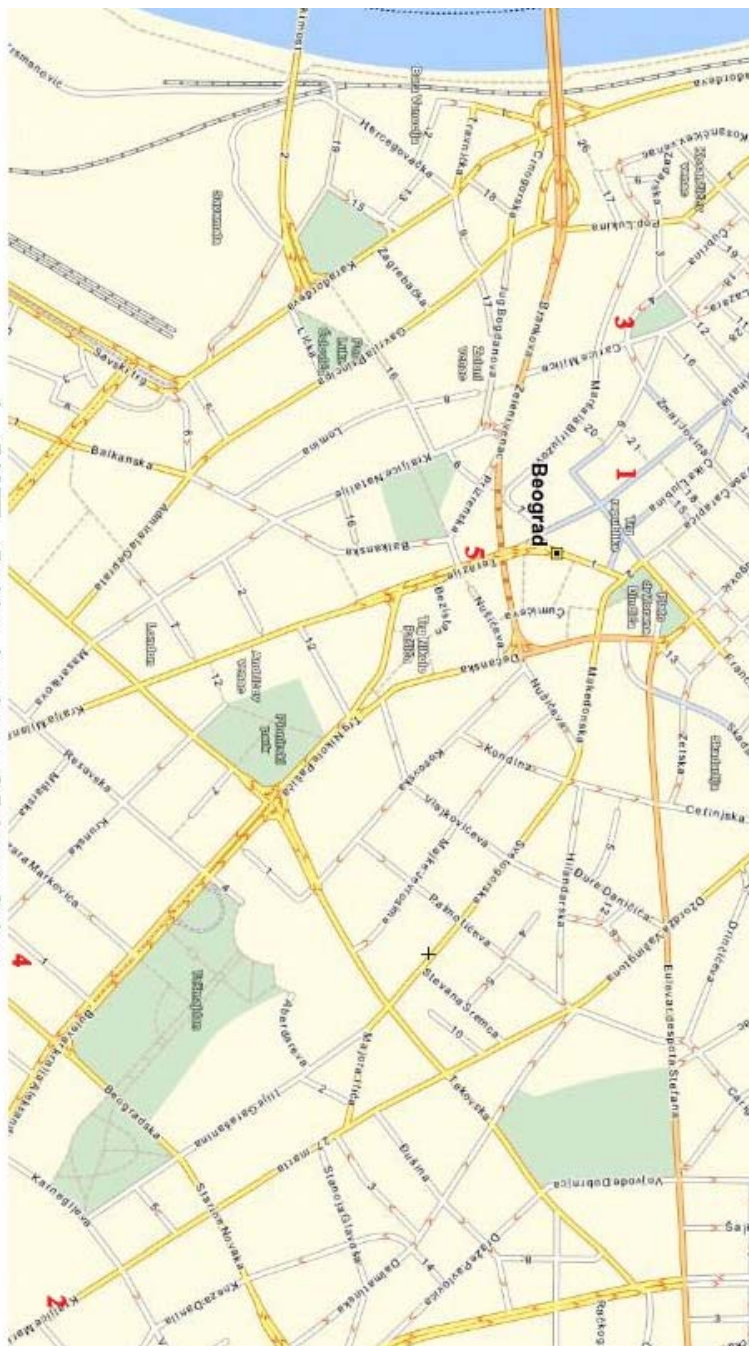
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Faculty of Mechanical Engineering, SRB-11120 Belgrade 35, POB 34. K. Marije 16, Serbia
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Conference Contact Information

JUMV c/o Faculty of Mechanical Engineering * SRB-11120 Belgrade 35, POB 34. K. Marije 16, Serbia
 Phone: (+381-11) 3370-358, 3302-288, 3302-390, 3340-762 * Fax: (+381-11) 3370-652, 3370-364, 3228-079, or
 E-mail: cduboka@jumv.rs, cduboka@eunet.rs, cduboka@mas.bg.ac.rs * <http://www.nmv2011.jumv.rs>



- 1 - SANU - Serbian Academy of Science & Art
- 2 - Faculty of Mechanical Engineering
- Hotels: 3 - Palace, 4 - Park, 5 - Balkan

Medjunarodni naučno-stručni skup sa izložbom
XXIII NAUKA I MOTORNA VOZILA 2011
SCIENCE AND MOTOR VEHICLES 2011
 International Automotive Conference with Exhibition
 19 - 21 April 2011, Beograd, Serbia

REGISTRATION FORM

Name: _____ First Name: _____ Title: _____

Organization: _____

Department _____ Address: _____

City: _____ Zip: _____ Country: _____

Phone: _____ Fax _____ Email: _____

Tick Category as appropriate:



Arrival date: _____ Departure date _____

Congress Dinner on Wednesday, 19 April 2011 at a price of 50 € per person

Payment method preference:



Note : JUMV will confirm your registration details and provide you with the invoice and payment instructions within 48 hours upon receiving this Registration Form.

I have read and understood the cancellation policy



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.
 JUMV will confirm your registration details and provide you with the invoice and payment instructions within 48 hours upon receiving this Registration Form in order to enable you to benefit early registration discount.
 No charge for cancellations received before 1 March 2011. Cancellation received after 25 March 2011 will result in cancellation fee of 30% of registration fee. No refunds for cancellations after 5 April 2011. No charge for substitutions at any time.



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 JUMV will confirm your registration details and provide you with the invoice and payment instructions within 48 hours upon receiving this Registration Form.**

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