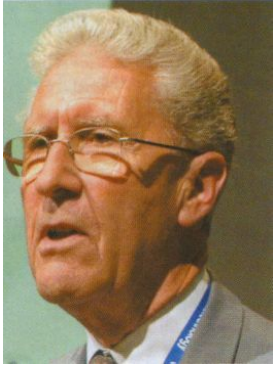


# Contents

Welcome Message.....	02
Congress Honorary Committee..	03
FISITA Member Societies.....	04
Organizing Committees.....	05
The Scientific and Technical Committee.....	06
SIAR.....	07
Brasov.....	08
Exhibition.....	09
Floor Plans.....	10
Schedule.....	11
Students & Young Engineers.....	23
Technical Visits.....	24
General Information.....	25
Social Programme & Tours.....	28



# Welcome Message



On behalf of FISITA - the International Federation of Automotive Engineering Societies – I would like to express our support and patronage for the forthcoming international conference – CONAT 2004.

I am sure that the 10.th edition of this congress, taking place in Brasov from 20-22 October 2004, will be the most successful yet. You have assembled an impressive range of academic institutions, companies and fellow member societies in order to build an excellent technical programme. FISITA is proud to award its patronage to such an event.

By bringing together many distinguished delegates and from speakers from around the world, I also expect that CONAT 2004 will make a significant contribution to FISITA's main purpose, which is to improve transportation systems, conserve energy, promote automotive safety and protect the environment.

We wish you every success for this important congress.

Philippe VENTRE,  
**FISITA President**



I am happy to wish welcome, on SIAR behalf, to the participants at CONAT 2004.

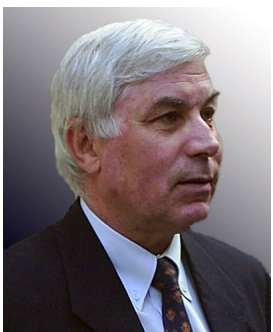
Now , when a new century is about to begin , THE AUTOMOTIVE ENGINEERS SOCIETY IN ROMANIA (who celebrates 15 years of activity )ascertains once the wish of professional improvement of those who are the field of automotive.

The automotive, which is an important part of people's life as well as main force of economy, requires new strategies regarding the environment protection and traffic safety.

The settlement of these requirements needs special efforts of researchers and automotive manufacturers and their success will be guaranteed by obtaining information regarding the actual stage and improvement possibilities.

The CONAT 2004 Congress which takes place in the era of globalization process of automotive industry, by the value of presented papers, by the presence of numerous participants from Romania and from abroad and by its possibilities to establish personal contacts and experience exchange, applies the FISITA motto „Let us progress together”.

Prof. Dr. Eng. Eugen Mihai NEGRUS,  
**Executive President of SIAR**



The International Congress CONAT 2004 represents the first scientific event organized by SIAR and the TRANSILVANIA University of Brasov, in cooperation with SAE International.

CONAT 2004, which takes place under the patronage of the FISITA president, is a proof of the international recognition of the Romanian automobile school, but also the marking point in the beginning of a new stage of scientific, technical and technological cooperation between researchers, specialists and companies from Romania and important partners from the European Union, America and Asia.

The participation at CONAT 2004 of well-known companies from the automobile industry, which will present during the congress the results of their research and production activities, as well as that of professors and reputed scientists from universities or study and research institutes from Germany, France, Belgium, U.S., Canada, Poland, Serbia, Czech Republic, Bulgaria, Vietnam, Thailand, China, R.S.A., Grece, Moldavia and Romania, ensures the fact that the 10<sup>th</sup> jubilee edition of the International Congress CONAT 2004 will be a high-class event.

Prof. Dr. Eng. Anghel CHIRU,  
**CONAT Congress Chairman,**  
**Dean of Mechanical Engineering Faculty**  
**Transilvania University of Brasov**

# Congress Honorary Committee

## **President of the Honorary Committee**

Daniel M. HANCOCK – FISITA President

Philippe VENTRE - 2002 – 2004 FISITA President

Dr Akihiko SAITO – FISITA Vice President, Finance  
FISITA President Elect (2006-2008)

Pedro de ESTEBAN ALTIRRIBA – EAEC President

Raymond A. MORRIS – FISITA Vice President, Executive  
Vice President/Chief Operating Officer SAE International

Hellmut ADLER – INA-Schaeffler KG Vice-President,  
Automotive Strategy

Josef LIEBHART – INA-Schaeffler KG Vice President,  
Manufacturing

Miron Tudor MITREA - Ministry of Transport, Constructions  
and Tourism

Eugen Mihail NEGRUS – SIAR President

Otilian NEAGOE – Prefect of Brasov County

Aristotel CANCESCU – President of Brasov County Council

George SCRIPCARU – Mayor of Brasov City

Ion VISA – Rector - Transilvania University of Brasov

Alexandru BLEMOVICI – INA Schaeffler Brasov  
Managing Director

Joel HANEN - DIAD Manager, DACIA - Groupe RENAULT

Vasile RAPEA – RAR General Manager

# FISITA member societies

	<b>Argentina</b> Asociacion de Ingenieros y Tecnicos del Automotor (AITA) Automotive Engineers and Technicians Association		<b>Italy</b> Associazione Tecnica Dell'Automobile (ATA)
	<b>Australasia</b> Society of Automotive Engineers - Australasia		<b>Japan</b> Society of Automotive Engineers of Japan, Inc. (JSAE)
	<b>Austria</b> Österreichischer Ingenieur-und Architektenverein (ÖIAV) Austria		<b>Korea</b> The Korean Society of Automotive Engineers (KSAE)
	<b>Austria</b> Österreichischer Verein für Kraftfahrzeugtechnik (ÖVK) Austrian Society of Automotive Engineers		<b>Poland</b> Stowarzyszenie Inzynierow I Technikow Mechaników Polskich (SIMP)
	<b>Belarus</b> Academic Automotive Association		<b>Romania</b> Societatea Inginerilor de Automobile din Romania (SIAR) Automotive Engineers Society of Romania
	<b>Belgium</b> Union Belge des Ingenieurs de L'Automobile (UBIA)		<b>Russia</b> Association of Automotive Engineers (AAE)
	<b>Brazil</b> Associação Brasileira de Engenharia Automotiva (AEA)		<b>Serbia &amp; Montenegro</b> Jugoslovensko Društvo za Motore i Vozila (JUMV) Society of Automotive Engineers of Serbia & Montenegro
	<b>Bulgaria</b> Society of Automotive Engineers in Bulgaria (SAEB)		<b>Slovak Republic</b> Spolok Automobilovych Inzinierov a Technikov Slovenska (SAITS) Slovak Society of Automotive Engineers
	<b>China</b> Society of Automotive Engineers of China (SAE-C)		<b>Slovenia</b> Association of Mechanical Engineers and Technicians Automotive Group, Slovenia (AMETS-AG)
	<b>Croatia</b> Hrvatsko društvo za motore i vozila (HDMV) Croatian Society for Engines and Vehicles (CroSEV)		<b>Spain</b> Sociedad de Tecnicos de Automocion (STA)
	<b>Czech Republic</b> Česká Automobilova Spolecnost (CAS) Czech Society of Automotive Engineers		<b>Sri Lanka</b> The Institute of Automotive Engineers
	<b>Finland</b> Suomen Autoteknillinen Liitto Ry (SATL)		<b>Sweden</b> Swedish Vehicular Engineering Association (SVEA)
	<b>France</b> Société des Ingénieurs de L'Automobile (SIA)		<b>Switzerland</b> Schweizerische Automobiltechnische Gesellschaft (SATG)
	<b>Germany</b> VDI - Gesellschaft Fahrzeug-und Verkehrstechnik (VDI-FVT)		<b>Thailand</b> Society of Automotive Engineers of Thailand (TSAE)
	<b>Hungary</b> Gépipari Tudományok Segyesulet (GTE) Scientific Society of Mechanical Engineers		<b>The Netherlands</b> KIVI-AD Royal Institution of Engineers - Automotive Division
	<b>India</b> SAE India		<b>The Netherlands</b> NIRIA Automotive Engineering Section
	<b>Indonesia</b> Ikatan Ahli Teknik Otomotif (IATO) Society of Automotive Engineers - Indonesia		<b>United Kingdom</b> Institution of Mechanical Engineers - Automobile Division (IMEchE)
	<b>Israel</b> Israel Society of Mechanical Engineers - Automotive Section (ISME-AS) A section of the Association of Engineers and Architects in Israel (AEAI)		<b>United States</b> Society of Automotive Engineers International (SAE-International)
			<b>Vietnam</b> Vietnamese Society of Automotive Engineers (VSAE)

# Organizing Committees

## EXECUTIVE ORGANISING BOARD

### Congress Chairman

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Dean – Faculty of Mechanical  
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Vice-President SIAR

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Murli M. IYER, SAE International,  
Global Operation Manager

### Scientific & Technical Committee President

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RADU

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Head of Automotive Engineering  
Department  
Prof. Dr. Eng. Peter KUCHAR  
Fachhochschule Konstanz

## SYSTEMS FOR THE MANAGEMENT OF THE ROAD SAFETY IN ROMANIA FORUM

Eng. Peter M.W. ELSENAAR - GRSP  
Senior Advisor, Forum Chairman.

## DEVELOPMENT OF THE MOTOR VEHICLE PARTS & COMPONENTS INDUSTRY, A NATIONAL PRIORITY FORUM

Dr. Eng. Constantin STROE - ACAROM  
President, Forum Chairman

### Logistics&Organisation President

Prof. Dr. Eng. Nicolae ISPAS

### Congress Co-ordinator

Eng. Dinu COVACIU

### Assistant Congress Co-ordinator

Ms. Rodica SIMA

### SIAR Executive Officer

Dr. Eng. Armand VLADU

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Prof. Dr. Eng. Gheorghe BOBESCU  
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Reader Dr. Eng. Mihai DOGARIU  
Asist. Viorel VULPE  
Asist. Dragos DIMA  
Asist. Dorin DUMITRASCU  
Prep. Bogdan BENEA  
Prep. Stelian TARULESCU  
Drd. Eng. Marius HARCEAGA  
Drd. Eng. Florin Silviu SARARU  
Drd. Eng. George TOGANEL  
Drd. Eng. Daniel TRUSCA  
Eng. Vladimir MARDARESCU  
Eng. Florin SASEANU  
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Ms. Magda NAGY  
Ms. Luminita GOGHIE  
Mr. Emeric GAJDO  
Miss Reka MATE  
Mr. Vergica OPREA

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Prof. Dr. Eng. Petru BRANZAS  
Prof. Dr. Eng. Ovidiu CAMPIAN  
Prof. Dr. Eng. Radu GAIGINSCHI  
Prof. Dr. Eng. Mircea NASTASOIU  
Prof. Dr. Eng. Ion TABACU  
Carmen STROE, INA Schaeffler  
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Asoc. Prof. Dr. Eng. Victor OTAT  
Reader Dr. Eng. Adrian SOICA  
Asist. Sebastian RADU  
Asist. Alexandru Marin STANESCU  
Asist. Ioan TODOR

# The Scientific and Technical Committee

**President of the Scientific and Technical Committee:** Prof.Dr.Ing. Gheorghe Alexandru RADU, Transilvania University of Brasov

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## Section I. INOVATIVE TECHNOLOGIES FOR AUTOMOTIVE

Cornel STAN	FTZ-Research and Technology Association at the West Saxon University of Zwickau, Germany	Prof. Dr. Eng. Habil, Director
Rodica BARANESCU	Society of Automotive Engineers, International Truck and Engine Corporation, U.S.	Dr. Eng. a.h.c., 2000 President S.A.E., Chief Engineering I.T.E.C.
Ulrich SPICHER	Universität Karlsruhe (TH), Institut für Kolbenmaschinen , Germany	Dekan, Institutsleiter
Felice CORCIONE	Instituto Motori, Italy	Dr. Eng., Direttore

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Dan Virgiliu NEGREA	Mechanical Faculty, Timisoara, Romania	Prof. Dr. Eng.,
Stefan SIMESCU	Southwest Research Institute – Texas, U.S.	Dr. Eng., Senior Research Engineer
Abdellatif MIRAOU	Université de Technologie de Belfort-Montbéliard, France	Prof. Dr. Eng., Directeur du Département Génie des Systèmes de Commande L2ES
Eduard GOLOVATAI - SCHMIDT	INA-Schaeffler KG, Germany	Eng., Valve Train Innovation Department Manager

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Ulrich KIFFMEIER	Digital Sign Processing and Control Engineering GmbH, Germany	Dr. Eng., Applications
Corneliu COFARU	Transilvania University, Mechanical Enginery Faculty, Brasov, Romania	Prof. Dr. Eng., Department of Automotive Engineering
Horia ABAITANCEI	Transilvania University, Mechanical Enginery Faculty, Brasov, Romania	Asoc. Prof. Dr. Eng., Department of Automotive Engineering

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Cedomir DUBOKA	Yugoslav Society of Automotive Engineers, Serbia	Prof. Dr., President
Edgard DELORD	Auto Chassis International, France	Welding chassis parts expert

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Michel COSTES	MaVel, Materials for Vehicles, France	Director

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Dinu TARAZA	Wayne State University, U.S.	Prof. Dr. Eng., Prof. of Mechanical Engineering
Gheorghe BACANU	Transilvania University, Brasov, Romania	Prof. Dr. Eng., Prorector
Ion PREDA	Transilvania University, Mechanical Enginery Faculty, Brasov, Romania	Prof. Dr. Eng.

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# SIAR

## **SOCIETATEA INGINERILOR DE AUTOMOBILE DIN ROMANIA**

## **AUTOMOTIVE ENGINEER SOCIETY OF ROMANIA**

### **SIAR's objectives:**

Engineering progress regarding construction, operating and vehicle maintenance fields.

Developing automotive industry, transport and service technologies, supporting the transport and sellers activity, technical inspection and auto service activities;

Encouraging youth to follow an automotive engineering career;

Stimulating and managing activities promoting an environment suitable for continuous education and perfecting engineers' knowledge, active ideas and experience exchange, especially for students and young engineers;

Collaborating with other technical and scientific organizations and/or organizing common activities;

Improving relationships with the over 35 FISITA societies.

# SIAR

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Col. Prof.Dr.Eng. Ticusor CIOBOTARU, SIAR ATM Buc.  
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Prof.Dr.Eng. Edem MAMUT, Constanta;  
Conf.Dr.Eng. Victor OTAT , Craiova;  
Prof.Dr.Eng. Radu GAIGINSCHI, Iasi;  
Prof.Dr.Eng. Ion TABACU, Pitesti;  
Prof.Dr.Eng. Virgiliu Dan NEGREA, Timisoara;

For more information on SIAR [www.SIAR.ro](http://www.SIAR.ro) or contact us at e-mail: [siar@aro1.aurut.pub.ro](mailto:siar@aro1.aurut.pub.ro)

# Brasov

## The City

The Brasov city, capital of region Brasov, with a population of little less than 300 000 inhabitant's, first mentioned in documents back in 1235, as a medieval fortress, build over a former Neolithic settlement, is situated in central region of Romania, at the base of Mount Tampa and surrounded by the Carpathians. During it's history, the city was also known as Brasco, Brasso, Stephanopolis, Kronstadt and **Brasov**. The old fortifications and the remnants of the famous fortress-city lure tourists from everywhere: The Weaver's Bastion, as the oldest bastion in the country, The Black and White Towers, The Catherine's Gate, The Black Church as the most important Gothic monument in Eastern Europe with an astonishing 4000 pipe organ and many more. The city bears the marks of being the Romanian centre of culture and civilization for hundreds of years: The First Romanian School, the first written document in Romanian housed by the Weaver Bastion, the oldest building in town: The Church of St.Batholomeu, founded in 1241, the oldest of the medieval authorities, The Old City Hall (see picture below) and so on. Situated at the crossroad between Transylvania and Wallachia, Brasov offers its resort centre, Poiana Brasov, for businessmen and tourists equally.

This being said we are glad to  
**welcome you in our city!**

## Transilvania University of Brasov - Dep. of Automotive Engineering

The beginning and development of higher education in the Brasov city origin from the old cultural traditions and intense cultural climate. The following are several turn points in the University's history:  
1940 - Academical education has been founded in Brasov, as part of Commercial and Industrial Study Academy;  
1949 - Mechanical Institute has been founded, by the initiative of the Romanian Engineer Association;  
1954 - The first Didactic staff Scientific Session has been attained;  
1971 -Transilvania University of Brasov formed by the union of Polytechnic and Pedagogic Institutes from Brasov;  
1974 - Participation of the first Didactic staff of Dep. of Tractor and Vehicles to the FISITA International Congress (ed.XV - May '74, Paris)  
1974-'77 -The Staff of Department of Tractor and Vehicles designing and developing the first prototyping of vehicle of small litre;  
1979-'81 - The Staff of Department of Tractor and Vehicles designing and homologating the first Diesel motor for Dacia touring car;  
1992 - Participation to Londra's FISITA'92 International Congress;  
1994 - Designing, developing and homologating a Street sweeper in cooperation with Fachhochschule Konstanz;  
1997 - SAE - Brasov is being established. Brasov FISITA board.  
Oct. 2000 - The first International Congress accomplished in cooperation with SAE International in Upside Moeciui;  
In present Transilvania University mentains partnership with educational centers like: Fachhochschule Konstanz, RWTH - Aachen, Karlsruhe University Germany, Compiègne, Belfort-Montbeliard France, Gent Belgia and many more.





# Schedule

TUESDAY, OCTOBER 19		THURSDAY, OCTOBER 21		FRIDAY, OCTOBER 22	
13:00	• Aro Palace Hotel: CONAT Registration Desk: Registration				
19:00	• Aro Palace Hotel: Reception				
WEDNESDAY, OCTOBER 20		THURSDAY, OCTOBER 21		FRIDAY, OCTOBER 22	
08:00	"Reduta" Cultural Center: CONAT Registration Desk: Registration	08:30	<b>Sessions</b> A03 Advanced Powertrain B03 Advanced Testing Methods C03 Advanced Transport Systems D03 Design Development E03 Life Cycle Analysis F03 Biofuels G03 Engineering Training	08:30	<b>Sessions</b> A08 Advanced Powertrain B08 Advanced Testing Methods C08 Integrated Safety D08 Vehicle Systems E08 Manufacturing & Logistics F08 Noise Reduction
09:00	Opening Ceremony				
10:30	COFFEE BREAK	08:30	H08 Forum - GRSP	08:30	H03 Forum - ACAROM
11:00	Plenary Session  Hellmut Adler - INA-Schaeffler KG  Cornel Stan - West Saxon University Zwickau  Joel Hanen, Jean Marie Hurtiger - Dacia Groupe Renault	10:00	COFFEE BREAK	10:00	COFFEE BREAK
		10:30	<b>Sessions</b> A04 Advanced Powertrain B04 Advanced Testing Methods C04 Advanced Transport Systems D04 Design Development E04 Life Cycle Analysis F04 Biofuels G04 Engineering Training	10:30	<b>Sessions</b> A09 Advanced Powertrain B09 Advanced Transport Systems  D09 Advanced Electronics E09 Manufacturing & Logistics
		10:30	H08 Forum - GRSP	10:30	H03 Forum - ACAROM
		12:00	COFFEE BREAK	12:00	COFFEE BREAK
		12:30	<b>Sessions</b> A05 Advanced Powertrain B05 Advanced Testing Methods C05 Advanced Transport Systems D05 Design Development E05 Life Cycle Analysis F05 Biofuels G05 Engineering Training	12:00 - 16:00	Technical Visits
14:00	LUNCH	14:00	LUNCH		
14:00	Int. Congress Center: CONAT Registration Desk: Registration				
15:30	<b>Sessions</b> A01 Advanced Powertrain B01 Vehicle Systems C01 Emissions D01 Design Development E01 Manufacturing & Logistics F01 Mechatronics G01 Accident Analysis	15:30	<b>Sessions</b> A06 Hybrid Vehicle B06 Vehicle Systems C06 Emissions D06 Design Development E06 Manufacturing & Logistics F06 Alternative Fuels G06 Vehicle Dynamics		
15:30	H01 Student Congress	15:30	H06 Student Congress		
17:00	COFFEE BREAK	17:00	COFFEE BREAK		
17:30	<b>Sessions</b> A02 Advanced Powertrain B02 Vehicle Systems C02 Emissions D02 Design Development E02 Manufacturing & Logistics F02 Mechatronics G02 Occupant Protection	17:30	<b>Sessions</b> A07 Hybrid Vehicle B07 Vehicle Systems C07 Aerodynamics D07 Advanced Electronics E07 Manufacturing & Logistics F07 Alternative Fuels G07 Vehicle Dynamics		
17:30	H02 Student Congress	17:30	H07 Student Congress		
		19:30	Black Church: Congress Concert		
20:30	INA-SCHAEFFLER Evening	20:30	"Cetate" Restaurant: Gala Dinner		

Legend: ■ Registration is possible during Congress during these periods

For Social Programme & Tours please see page 28. For General Information please see pages 25-27.

20 October - 'Reduta' Cultural Center

09:00 - 10:30

## Opening Ceremony

- Anghel CHIRU - Congress Chairman
- Daniel M. HANCOCK - FISITA President
- Miron Tudor MITREA - Ministry of Transport, Constructions and Tourism
  - Ion VISA – Rector - Transilvania University of Brasov
  - Alexandru Blemovici - INA Schaeffler Brasov Managing Director
- Joel HANEN - DIAD Manager, DACIA - Groupe RENAULT
  - Eugen Mihail NEGRUS – SIAR President

**10:30 - 11:00 COFFEE BREAK & EXHIBITION OPENING**

11:00 - 14:00

## Plenary Session

Chairman: **Chiru Anghel**

Hellmut Adler - Vice President Automotive Strategy  
INA-Schaeffler KG

**MODERN RELATIONSHIPS BETWEEN SUPPLIERS AND THE  
AUTOMOTIVE INDUSTRY FOR DEVELOPING NEW PRODUCTS**

Cornel Stan - Zwickau, West Saxon University  
**FUTURE PROPULSION SYSTEMS FOR AUTOMOTIVE APPLICATIONS**

Joel HANEN - DIAD Manager, Dacia Groupe RENAULT  
Jean Marie Hurtiger - Pitesti, Dacia Groupe RENAULT  
**THE RENAULT LOGAN DESIGN**

**14:00 - 15:30 Lunch**

PAPER CODE	TITLE	SPEAKER	Institution
Session: A1 - <b>Advanced Powertrain / 20 October, 15:30 - 17:00 - Room: UI2</b> / Chairman: <b>Sierens, Roger</b>			
CONAT20041102	SIMULATION STRATEGY BASED ON COUPLED MODELS FOR PROCESSES IN ADVANCED AUTOMOTIVE ENGINES	Stanciu, Andrei	Zwickau, West Saxon University
CONAT20041065	NEW ASPECTS CONCERNING THE TRANSFER OF THE VIRTUES OF DIVIDED COMBUSTION CHAMBER TO DIRECT INJECTION IN THE CERAMIC CUP CHAMBER WITH CONTROLLED FLOW SPRAYS	Nicolae, Viorel	Pitesti, University
CONAT20041024	RESEARCH REGARDING THE BUILDING OF A DIESEL MONOCYLINDER WITH DIRECT INJECTION BY MEDIUM SPEED	Chiru, Anghel	Brasov, Transilvania University
CONAT20042029	HCCI - A POSSIBLE SOLUTION TO AVOID PARTICULATE/NOX TRADE-OFF FOR FUTURE COMPRESSION IGNITION ENGINES	Anca, Razvan	Karlsruhe, University
Session: A2 - <b>Advanced Powertrain / 20 October, 17:30 - 19:00 - Room: UI2</b> / Chairman: <b>Andreescu, Cristian</b>			
CONAT20041075	CALCULATION OF STRATIFIED-CHARGE COMBUSTION IN LPG DIRECT INJECTION SPARK IGNITION ENGINE	Tran Van Nam,	Danang, University
CONAT20041050	THE INFLUENCES OF THE MOIST AIR OVERCHARGE OVER THE GASES EVACUATED BY DIESEL ENGINE	Craciun, Ovidiu Mihai	Brasov, Transilvania University
CONAT20041021	OPERATIONAL AND STRUCTURAL LIMITATIONS AND POSSIBILITIES OF THE ENGINE WITH VARIABLE COMPRESSION RATIO	Sachelarie, Adrian	Iasi, Technical University Gh. Asachi
CONAT20041032	THE PREDICTION OF THE INTERACTION DROPLET/WALL FOR DIRECT INJECTION	Mardarescu, Vladimir	Brasov, Transilvania University

PAPER CODE	TITLE	SPEAKER	Institution
<b>Session: A3 - Advanced Powertrain / 21 October, 8:30 - 10:00 - Room: UI2 / Chairman: Golovatai-Schmidt, Eduard</b>			
CONAT20041091	RESEARCHES REGARDING MECHANICAL EFFICIENCY EVALUATION AT TURBOCHARGERS	Podevin, Pierre	Paris, Conservatoire National des Arts et Metiers
CONAT20041086	PNEUMATIC HYBRIDATION FOR CYCLE TO CYCLE TORQUE CONTROL OF TURBOCHARGED SI ENGINES	Vasile, Iulian	Orléans, Ecole Polytechnique de l'Université
CONAT20041084	STUDY UPON THE FUEL DROPS PROCESSES INTO THE INLET DUCTS OF A DIESEL ENGINE	Niculescu, Rodica	Pitesti, University
CONAT20041005	TECHNOLOGIES FOR VARIABLE VALVE TRAINS; A CONTRIBUTION TO MODERN S.I. ENGINES	Golovatai-Schmidt, Eduard	Herzogenaurach, INA Schaeffler KG
<b>Session: A4 - Advanced Powertrain / 21 October, 10:30 - 12:00 - Room: UI2 / Chairman: Grau, Ulrich</b>			
CONAT20041068	A COMPARATIVE ANALYSIS REGARDING BALANCING OF THE 5 CYLINDERS ENGINES. IN-LINE 5 VS. VR5	Racota, Radu	Pitesti, University
CONAT20041047	LONG-TERM ENGINE FOR VEHICLES	Martyniuk, Nickolay	Chisinau, The Academy of Transports, Informatics and Communications
CONAT20041058	CONSIDERATIONS ON THE DOWNSIZING TECHNIQUE AT THE SPARK IGNITION ENGINE	Clenci, Adrian	Pitesti, University
CONAT20045025	MANUFACTURING VALVES SHAFT OF ENGINE INTERNAL IGNITE THROUGH ULTRASONIC EDITING	Bebe, Tica	Craiova, University
<b>Session: A5 - Advanced Powertrain / 21 October, 12:30 - 14:00 - Room: UI2 / Chairman: Gaiginschi, Radu</b>			
CONAT20041078	THE NEW CONCEPT OF THE IC ENGINE FOR ALL FUELS	Pesic, Radivoje	Kragujevac, University
CONAT20041066	ASPECTS CONCERNING INSTANT TORQUE EVALUATION WHEN ACCELERATING A TURBOCHARGED DIESEL ENGINE	Podevin, Pierre	Paris, Conservatoire National des Arts et Metiers
CONAT20041072	THE STUDY OF SONIC PROPULSION SYSTEMS INTEGRATING DYNAMICAL WAVE GENERATION AND DYNAMICAL ENERGY RECOVERY	Abaitancei, Horia	Brasov, Transilvania University
CONAT20041074	A PRELIMINARY STUDY OF HYDROSTATIC ENERGY RECOVERY IN VEHICLE SHOCK ABSORBERS	Radu, Gheorghe Al.	Brasov, Transilvania University
CONAT20042004	ASPECTS ON RECOVERING THE BRAKING ENERGY AT URBAN BUSES	Hainarosie, Ioan	Bucharest, Politehnica University
<b>Session: A6 - Hybrid Vehicle / 21 October, 15:30 - 17:00 - Room: UI2 / Chairman: Helerea, Elena</b>			
CONAT20042081	FUEL CELL VEHICLE POWER TRAIN SIMULATION	Regep, Victor Cristian	Constanta, Ovidius University
CONAT20042094	INTELLIGENT ROBUST CONTROL OF TORQUE AND SPEED FOR ELECTRIC VEHICLES PROPULSION	Georgescu, Marius	Brasov, Transilvania University
CONAT20042132	ELECTRIC AND HYBRID VEHICLES IN ROMANIA	Danciu, Grigore	Bucharest, Politehnica University
CONAT20042064	DYNAMIC MODELING AND COMPUTER SIMULATION OF A HYBRID AUTOMOBILE EQUIPPED WITH AUTOMATIC TRANSMISSION	Cruceru, Dragos	Pitesti, University
<b>Session: A7 - Hybrid Vehicle / 21 October, 17:30 - 19:00 - Room: UI2 / Chairman: Cristea, Dumitru</b>			
CONAT20042032	SERIES HYBRID ELECTRIC VEHICLE WITH 2-STROKE INTERNAL COMBUSTION ENGINE	Marek, Wojciech	Cracow, University of Technology
CONAT20042071	HIBRID DRIVE SOLUTION	Lefter, Emilian	Pitesti, University
CONAT20042065	CREATING A HYBRID PROPULSION SYSTEM FOR MINI VEHICLE: CHOOSING THE POWERTRAIN LAYOUT	Cruceru, Dragos	Pitesti, University
CONAT20042048	HYBRID ELECTRIC TRACTOR TRAILER FOR NORTH AMERICA	Cantemir, Codrin-Gruie	Columbus, The Ohio State University
CONAT20041081	PROPULSION-GOVERNMENT FITTING ACTED BY ASYNCHRONOUS MOTOR IN NON-CONVENTIONAL CONSTRUCTION	Dobref, Vasile	Constanta, Naval Academy Mircea cel Batran
<b>Session: A8 - Advanced Powertrain / 22 October, 8:30 - 10:00 - Room: UI2 / Chairman: Burnete, Nicolae</b>			
CONAT20041105	THE INFLUENCE OF THE CONSTRUCTIONAL FACTORS ABOUT THE RUNNING OF THE CENTRIFUGAL REACTIVE FILTER	Stan, Marinica	Pitesti, University
CONAT20041036	SPARK-IGNITED ENGINE MODEL FOR LAMBDA CONTROL	Florioan, Dan	Brasov, Transilvania University
CONAT20041077	CONTRIBUTIONS TO THE DYNAMIC DEFINITION OF THE LIQUID FUEL INJECTION PROCESS AT THE INTERNAL COMBUSTION ENGINES	Benche, Victor	Brasov, Transilvania University
CONAT20041108	THE CONTRIBUTION OF THE INTAKE SYSTEM TO THE EFFICIENCY OF THE DI DIESEL ENGINE THERMODYNAMIC CYCLE	Chiru, Anghel	Brasov, Transilvania University
CONAT20041092	THE DEFINE OF THE MOVEMENT TIME OF THE PISTON AT THE HYDRAULIC COMMAND SYSTEM FOR ADAPTIVE ADMISSION AT HEAT ENGINES	Stan, Marinica	Pitesti, University

PAPER CODE	TITLE	SPEAKER	Institution
<b>Session: A9 - Advanced Powertrain / 22 October, 10:30 - 12:00 - Room: UI2 / Chairman: Negrea, Virgiliu-Dan</b>			
CONAT20042107	HEAT EXCHANGE BETWEEN CYLINDER HEAD, PISTON, CYLINDER BLOCK AND EXTERNAL ATMOSPHERE IN THE CASE OF A COMPRESSION IGNITION ENGINE	Coldea, Cristian	Cluj-Napoca, Technical University
CONAT20044052	NEW ASPECTS CONCERNING THE STUDY OF RADIATORS COMPOSED BY SERIES AND PARALLEL COUPLING UNITS	Muresan, Maria	Brasov, Transilvania University
CONAT20041003	TRENDS OF MORE COMPACT COOLING SYSTEMS FOR VEHICLES AND SELF DRIVEN CARS EQUIPPED WITH DIESEL ENGINES	Ilies, Paul	Bistrita, RAAL
CONAT20042012	METHOD FOR THERMAL LOSSES BY COOLING SYSTEM RADIATOR MEASUREMENT AT AUTOMOTIVE VEHICLES	Sachelarie, Adrian	Iasi, Technical University Gh. Asachi
CONAT20044089	REGARDING THE ENSURING OF THE THERMAL COMFORT IN MODERN AIR-CONDITIONING SYSTEMS	Pana, Gabriela Monica	Craiova, University
CONAT20044020	CONSIDERATIONS IN OPTIMAL ADJUSTMENT OF AIRCONDITIONING RESOURCES EQUIPMENT WITH VEHICLE CATEGORY	Sacuiu, Florin	Brasov, Cambric Consulting
<b>Session: B1 - Vehicle Systems / 20 October, 15:30 - 17:00 - Room: UI3 / Chairman: Oprean, Mircea</b>			
CONAT20041087	DYNAMIC OF THE NONHOLONOMIC AUTOMOTIVE TRANSMISSIONS AS VARIABLE SPEED DRIVES	Zlokolica, Miodrag	Novi-Sad, University
CONAT20041053	SOME ASPECTS CONCERNING THE SIMULATION OF A CVT VEHICLE DESIGN PERFORMANCES	Isac, Victor	Bucharest, Romanian Road Authority
CONAT20041085	RESEARCHES CONCERNING THE UTILIZATION OF TWO PARALLELS FLUX POWER TRANSMISSIONS, MECHANICAL AND HYDROSTATIC, AT VEHICLES	Nastasoiu, Stelian	Brasov, Transilvania University
CONAT20041046	BELT-TYPE CVT FOR THE AUTOMOTIVE PROPULSION	Scafaru, Catalin	Brasov, Transilvania Univ.
CONAT20041103	UPON MODELING, SIMULATION AND DYNAMIC ANALYSIS OF THE VEHICLE EXHAUST SYSTEM	Lache, Simona	Brasov, Transilvania University
<b>Session: B2 - Vehicle Systems / 20 October, 17:30 - 19:00 - Room: UI3 / Chairman: Macarie, Tiberiu</b>			
CONAT20041073	MODELING AND SIMULATION OF FRICTION DISC CLUTCH OPERATION IN AUTOMATIC TRANSMISSION	Sustersic, Vanja	Kragujevac, University
CONAT20041071	THE USE OF THE STRUCTURAL SYMMETRIES IN THE VIBRATION ANALYSIS OF THE TRANSMISSION	Vlase, Sorin	Brasov, Transilvania University
CONAT20041062	ABOUT CROSS-COUNTRY CAR TRANSMISSION STRAINS	Ciolan, Gheorghe	Brasov, Transilvania University
CONAT20041106	THEORETICAL AND EXPERIMENTAL STUDY ON MECHANICAL STRESSES WITHIN CARS' TRANSMISSIONS WHILE ROLLING ON DIFFERENT ROAD TYPES	Câmpian, Ovidiu	Brasov, Transilvania University
<b>Session: B3 - Advanced Testing Methods / 21 October, 8:30 - 10:00 - Room: UI3 / Chairman: Vlase, Sorin</b>			
CONAT20044060	ANALYSIS OF BRAKE PAD FRICTION CHARACTERISTIC OBTAINED BY POLYGON TESTING OF VEHICLE	Glisovic, Jasna	Kragujevac, University
CONAT20042006	CONSIDERATIONS REGARDING METHODS AND TECHNIQUES OF DIAGNOSTICATION OF VEHICLES BY MEANS OF VIBRATIONS	Calota, Stanica	Pitesti, Tank and Driving Training School
CONAT20042118	EXPERIMENTAL RESEARCHES OVER THE POSSIBILITIES TO DIAGNOSE THE MECHANICAL TRANSMISSIONS BY FREQUENCY ANALYSIS OF VIBRATION	Nicolae, Viorel	Pitesti, University
CONAT20044078	MODAL ANALYSIS IN ROTATING MACHINERY	Nicoara, Dumitru D.	Brasov, Transilvania University
CONAT20042086	MEASURING THE WAYS OF TRANSMISSION OF VIBRATIONS COMING FROM THE FORCE GROUP	Vasilovici, Nicolae	Brasov, INAR
<b>Session: B4 - Advanced Testing Methods / 21 October, 10:30 - 12:00 - Room: UI3 / Chairman: Tuica, Alexandru</b>			
CONAT20042084	SOOT FORMATION ANALYSIS IN TURBULENT DIFFUSION FLAMES BY VISIOSCOPE	Bui Van Ga,	Danang, University
CONAT20041030	METHOD FOR TESTING BEARINGS AT LIMIT SPEEDS	Bolfa, Traian E.	Brasov, Transilvania University
CONAT20042082	THE MAIN BEARING ZONE ELASTICAL PROPERTIES ANALYSIS BY HOLOGRAPHIC INTERFEROMETRY AND FEM	Szava, Ioan	Brasov, Transilvania University
CONAT20042091	EXPERIMENTAL DATA PROCESSING ON AN INERTIA DYNAMOMETER TEST-BAND FOR BRAKE LINING ASSEMBLY	Fedoreanu, Marilena	Brasov, INAR
<b>Session: B5 - Advanced Testing Methods / 21 October, 12:30 - 14:00 - Room: UI3 / Chairman: Alexandru, Petre</b>			
CONAT20042085	TEMPERATURE DISTRIBUTION AND SOOT FORMATION ANALYSIS IN PRE-CHAMBER OF MAZDA WL ENGINE BY AVL VISIOSCOPE	Pham Xuan Mai,	Ho Chi Minh, University
CONAT20041041	EXPERIMENTAL TEST CONCERNING THE FRAMEWORK AND THE SEAT-BACK HINGE OF A CAR CHAIR	Alexandru, Petre	Brasov, Transilvania University

PAPER CODE	TITLE	SPEAKER	Institution
CONAT20042078	CONTROL STRATEGIES IN AFTERTREATMENT OF LEAN BURN ENGINES	Drosescu, Radu	Iasi, Technical University Gh. Asachi
CONAT20042033	LASER-INDUCED INCANDESCENCE TO STUDY THE SOOT PARTICLES FORMATION	Boiarciuc, Andrei	Orleans, Ecole Polytechnique de l'Universite
CONAT20042136	THE BOURDON TUBE - ELASTIC TYPE PRESSURE TRANSDUCER	Comanescu, Ioana Sonia	Brasov, Transilvania University
Session: B6 - <b>Vehicle Systems / 21 October, 15:30 - 17:00 - Room: UI3 / Chairman: Fratila, Gheorghe</b>			
CONAT20044080	COMPUTER PROGRAMME FOR STUDY THE IN COMMON WORKING CONDITIONS OF INTERNAL COMBUSTION ENGINE AND HYDRAULIC CONVERTER IN CASE OF CONTINUOUSLY VARIABLE TRANSMISSION	Burciu, Salvadore-Mugurel	Galati, Dunarea de Jos University
CONAT20041052	THE SELECTION OF AN APPROPRIATE GEAR RATIO IN AN AUTOMATIC CITY-BUS TRANSMISSION	Dragne, Florin Daniel	Bucharest, Politehnica University
CONAT20041051	SIMULATION OF GEAR SELECTION IN AN AUTOMATIC TRANSMISSION	Cancel, Laurentiu	Bucharest, Politehnica University
CONAT20042129	A MEASURING SYSTEM FOR REMOTE LOAD MONITORING OF THE INTERNAL-COMBUSTION ENGINE IN AGRICULTURAL TRACTORS	Czechowski, Mirosław	Poznan, Institute of Agricultural Engineering
Session: B7 - <b>Vehicle Systems / 21 October, 17:30 - 19:00 - Room: UI3 / Chairman: Popescu, Simion</b>			
CONAT20043019	RESEARCHES CONCERNING THE STABILITY OF THE OPTIMUM TIME PERIOD FOR THE EXPLOITATION OF THE TECHNICAL TRANSPORTATION SYSTEMS FROM AGRICULTURE	Bratucu, Gheorghe	Brasov, Transilvania University
CONAT20041082	THE THEORY OF PLANE-PARALLEL MOTION OF THE SELF -PROPELLED ROOTS HARVESTING MACHINE	Bulgakov, Volodymyr M.	Kiev, National Agricultural University of Ukraine
CONAT20041097	ASPECTS REGARDING THE DYNAMIC STABILITY OF FORK LIFT TRUCKS	Popescu, Simion	Brasov, Transilvania University
CONAT20041088	CONTRIBUTIONS TO THE STUDY OF OSCILLATIONS OF THE TRACTOR-FRONT LOADER SYSTEM	Popescu, Simion	Brasov, Transilvania University
CONAT20041107	ASPECTS CONCERNING THE PLANE SIEVE GRANULAR MATERIAL LOADING LEVEL INCREASING	Gaceu, Liviu	Brasov, Transilvania University
Session: B8 - <b>Advanced Testing Methods / 22 October, 8:30 - 10:00 - Room: UI3 / Chairman: Salajan, Cornel</b>			
CONAT20042005	ASPECTS CONCERNING THE USE OF THE STATISTICAL METHODS IN THE EXPERIMENTAL DATA PROCESSING	Calota, Stanica	Pitesti, Tank and Driving Training School
CONAT20041100	TEST BENCH FOR BICYCLE COMPONENTS	Thomas, Stefan	Konstanz, University of Applied Sciences
CONAT20042007	ASPECTS CONCERNING THE USE OF THE SPECIALIZED SOFTWARE IN THE INTERPRETATION OF THE EXPERIMENTAL DATA	Ionescu, Cornel	Pitesti, Tank and Driving Training School
CONAT20042134	MEASUREMENT METHOD FOR CAR-BODY DEFORMATION MOMENT	Neagoie, Dumitru	Craiova, University
Session: B9 - <b>Advanced Transport Systems / 22 October, 10:30 - 12:00 - Room: UI3 / Chairman: Zamfira, Sorin</b>			
CONAT20044053	ASPECTS REGARDING THE INFLUENCE OF THE PUBLIC ILLUMINATION ON THE ROAD EVENTS	Zamfira, Sorin	Brasov, Transilvania University
CONAT20044062	THE EVOLUTION OF AUTOMOTIVE LIGHTING SYSTEM AND TRAFFIC SAFETY	Enache, Valeriu	Brasov, Transilvania University
CONAT20042135	THE PROCESSING OF DATA RESULTED BY EXPERIMENTAL WAY	Hainarosie, Ioan	Bucharest, Politehnica University
Session: C1 - <b>Emissions / 20 October, 15:30 - 17:00 - Room: UI6 / Chairman: Cofaru, Corneliu</b>			
CONAT20042079	EXHAUST EMISSIONS OF REGULATED AND UNREGULATED POLLUTANTS OF PASSENGER CARS	Joumard, Robert	Bron, INRETS
CONAT20042106	RESEARCH CONCERNING THE POLLUTION PRODUCED BY THE DIESEL ENGINES RUNNING ON MIXTURE OF DIESEL AND BIOFUELS	Costea, Adrian	Cluj-Napoca, Technical University
CONAT20042100	SYNTHESIS OF SOME RESEARCHES CONCERNING THERMAL PREPARATION OF THE AIR ASPIRATED IN A DIRECT INJECTION DIESEL ENGINE FOR REDUCING OF THE SMOKE DEGREE	Iorga, Danila	Timisoara, Politehnica University
CONAT20042028	THE MATHEMATICAL MODEL FOR ROAD SERVICE IN THE JAMMED INTERSECTIONS IN THE CENTRAL AREA OF CRAIOVA CITY	Dumitru, Ilie	Craiova, University
Session: C2 - <b>Emissions / 20 October, 17:30 - 19:00 - Room: UI6 / Chairman: Abaitancei, Dan</b>			
CONAT20042067	CONTRIBUTIONS REGARDING THE ANALYSIS OF THE INLET MANIFOLD GEOMETRY INFLUENCE UPON THE EXHAUST EMISSIONS AT A ROTARY VALVES D.I. DIESEL ENGINE USING THE FINITE ELEMENT METHOD	Zichil, Valentin	Bacau, University
CONAT20042050	THE MODERN PASSENGER CARS FUEL ECONOMY POTENTIAL	Bataus, Marius	Bucharest, Politehnica Univ.
CONAT20041090	THE INFLUENCE OF EURO2 UNLEADED GASOLINE TO EURO3 ENGINE	Tuica, Alexandru	Craiova, Daewoo Automobile Romania

PAPER CODE	TITLE	SPEAKER	Institution
CONAT20042027	CONSIDERATIONS REGARDING THE ANALYSIS AND THE PROGNOSIS WITH STATISTICAL METHODS OF THE ENVIRONMENT POLLUTION LEVEL DUE TO THE URBAN VEHICLES TRAFFIC	Ungureanu, Cezar Alin	Craiova, University
CONAT20042102	THE INFLUENCE OF THE CORRECT DIAGNOSIS OF THE ENGINE TO THE EMISSIONS	Cojocaru, Aurelian	Brasov, Transilvania University
Session: C3 - <b>Advanced Transport Systems / 21 October, 8:30 - 10:00 - Room: UI6 / Chairman: Neagu, Elena</b>			
CONAT20043007	ANALYSIS OF SEATS DESIGN CONCEPTS ON MIDDLE CLASS PASSENGER CAR	Snezana, Vrekcic	Kragujevac, Zastava Cars, R.D. Institute
CONAT20043011	A CONTRIBUTION TO SEAT INVESTIGATION METHOD DEVELOPMENT FROM THE ASPECT OF RIDE COMFORT	Demic, Miroslav	Kragujevac, University
CONAT20043001	RESEARCH ON THE EVOLUTION OF AUTOMOTIVE INTERIOR AS A LIVING SPACE: DRIVE-BY-WIRE TECHNOLOGY AND NEW SPATIAL SOLUTIONS	Liamadis, George	Thessaloniki, Aristotle University
CONAT20043017	LEARNING FROM NATURE	Gui, Oana	Cluj-Napoca, Technical University
Session: C4 - <b>Advanced Transport Systems / 21 October, 10:30 - 12:00 - Room: UI6 / Chairman: Florea, Daniela</b>			
CONAT20043008	WAVES FLOW TRAFFIC ANALYSIS	Neagu, Elena	Pitesti, University
CONAT20043006	CAPACITY AND SAFETY OF THE SIGNALIZED INTERSECTION	Florea, Daniela	Brasov, Transilvania University
CONAT20043010	DESIGN AND DEVELOPMENT OF VELOCITY ESTIMATION IN AUTOMOTIVE CONTROL SYSTEMS	Georgescu, Marius	Brasov, Transilvania University
CONAT20043015	ELECTRONIC DEVICE FOR VISUALIZING THE MOVEMENT SPEED OF A VEHICLE, ON THE SEGMENTS OF ROAD WITH SPEED LIMIT	Tero, Mircea	Targu-Mures, Petru Maior University
Session: C5 - <b>Advanced Transport Systems / 21 October, 12:30 - 14:00 - Room: UI6 / Chairman: Florea, Daniela</b>			
CONAT20042013	FUEL EFFICIENCY FOR AUTOMOBILES IN JAMMED TRAFFIC	Georgescu, Liviu	Bucharest, Politehnica University
CONAT20043020	THE ITS ARCHITECTURE ONE OF THE MOST IMPORTANT COMPONENT FOR PLANNING AND DEVELOPING OF THE INTELLIGENT TRANSPORTATION SYSTEMS AND A NEW APPROACH OF THE INFORMATION AND COMMUNICATION SYSTEMS IN TRANSPORT FIELD	Nemtanu, Florin-Codrut	Bucharest, Politehnica University
CONAT20042125	PREVENTION MEASURES FOR RED-LIGHT RUNNING AT SIGNALIZED INTERSECTIONS	Florea, Daniela	Brasov, Transilvania University
CONAT20043021	METHODOLOGY FOR INVESTIGATION THE CALLS FLOW IN THE EMERGENCY AID CENTRE	Evtimova, Vesselina	Rousse, "Angel Kanchev" University
Session: C6 - <b>Emissions / 21 October, 15:30 - 17:00 - Room: UI6 / Chairman: Apostolescu, Nicolae</b>			
CONAT20042051	THE AUTOMOBILE AND THE ENVIRONMENT	Panait, Traian	Bucharest, Ministry of Transports, Constructions and Tourism
CONAT20042089	OPTIMIZATION METHODS OF THE CITY TRAFFIC FOR ENVIRONMENT POLLUTION DIMINISH	Tarulescu, Stelian	Brasov, Transilvania University
CONAT20042014	SUSTAINABLE TRANSPORT AND EU ENLARGEMENT	Stratulat, Sergiu	Chisinau, The Academy of Transports, Informatics and Communications
CONAT20042097	PURIFICATION OF THE SEWAGE RESULTED FROM THE NEW CARS WASHING STATION	Duicu, Simona Sofia	Brasov, Transilvania University
Session: C7 - <b>Aerodynamics / 21 October, 17:30 - 19:00 - Room: UI6 / Chairman: Benche, Victor</b>			
CONAT20041009	THEORETICAL EVALUATION OF THE UNDER-BODY DRAG OF ROAD VEHICLE	Benche, Victor	Brasov, Transilvania University
CONAT20041010	ABOUT GROUND EFFECT AND MODELING OF THIS IN A VIRTUAL ENVIRONMENT	Chiru, Anghel	Brasov, Transilvania University
CONAT20041011	CFD STUDY REGARDING THE INFLUENCE OF THE UNDERBODY GEOMETRY ON TOTAL DRAG FOR A VEHICLE	Huminic, Angel	Brasov, Transilvania University
CONAT20041031	THEORETICAL AND APPLIED METHODS IN OPTIMIZATION OF MAXIMUM DRAG AIRFOILS	Postelnicu, Adrian	Brasov, Transilvania University
Session: C8 - <b>Integrated Safety / 22 October, 8:30 - 10:00 - Room: UI6 / Chairman: Rus, Florean</b>			
CONAT20044067	DETERMINING THE RIGIDITY COEFFICIENT OF VEHICLES DEFORMED STRUCTURE IN CASE OF FRONTAL COLLISION AND OFFSET	Soica, Adrian	Brasov, Transilvania University
CONAT20044043	ELASTIC SYSTEM OF SHOCK- PROOF PROTECTION	Rusnac, Iulian	Chisinau, The Academy of Transports, Informatics and Communications

THURSDAY, OCTOBER 21, 08:30 – 12:00  
**Systems for the Management  
of the Road Safety in Romania  
FORUM**

Mr. Eng. Peter M.W. ELSENAAR - GRSP Senior Advisor, Forum Chairman.

**10:30 - 11:00 COFFEE BREAK**

FRIDAY, OCTOBER 22, 08:30 – 12:00

**Development of the Motor Vehicle Parts &  
Components Industry, a National Priority  
FORUM**

Dr. Eng. Constantin STROE - ACAROM President, Forum Chairman

**INTERNATIONAL CONGRESS CENTER**

PAPER CODE	TITLE	SPEAKER	Institution
CONAT20044030	ANALYTICAL AND NUMERICAL MODELS USED TO EVALUATE THE ENERGY CONSUMED BY THE VEHICLE STRUCTURE DURING THE FRONTAL IMPACT	Tabacu, Stefan	Pitesti, University
CONAT20044039	CRASH BEHAVIOR STUDY FOR BODIES STRUCTURES OF AUTOMOBILES	lozsa, Daniel	Bucharest, Politehnica University
Session: D1 - Design Development / 20 October, 15:30 - 17:00 - Room: UII2 / Chairman: Szava, Ioan			
CONAT20044077	RESEARCHES CONCERNING DIRECT INJECTION SYSTEM MODELATION OF A DIESEL ENGINE FOR BURNING EVALUATION ON THE BASIS OF DROPLETS CLOUD EVOLUTION	Negrea, Virgiliu Dan	Timisoara, Politehnica University
CONAT20044063	CRITERIONS FOR THE GEOMETRY OPTIMIZATION AT THE HEAD OF THE PISTON ROD AT D.I. DIESEL ENGINES USING FINITE ELEMENT METHOD	Zichil, Valentin	Bacau, University
CONAT20044029	STEADY-STATE ANALYSIS OF THE DISPLACEMENTS FIELD FOR A FOUR-STROKE ENGINE ASSEMBLY	Obogeanu, Claudiu	Craiova, University
CONAT20044031	A STUDY REGARDING THE WINDSHIELD DEFROSTING PROCESS	Ivanescu, Mariana	Pitesti, University
Session: D2 - Design Development / 20 October, 17:30 - 19:00 - Room: UII2 / Chairman: Mateescu, Viorel			
CONAT20041026	INVESTIGATION OF INFLUENCE ON THE CAR BODY CONSTRUCTION DEFINING	Milovanovic, Milan	Kragujevac, Zastava Cars, R.D. Institute
CONAT20044032	SPECTRAL ANALYSIS OF THE NOISE INSIDE THE PASSENGERS COMPARTMENT	Ivanescu, Mariana	Pitesti, University
CONAT20044017	OPTIMAL DESIGNING OF A SMALL TRICYCLE VEHICLE USING CAD RESOURCES: SOLIDWORKS RELEASE 2003	Mesaros, Mihai	Brasov, Cambric Consulting
CONAT20044038	DESIGN AND CONSTRUCTION OF A ROAD-SNOW-WATER VEHICLE	Scafaru, Catalin	Brasov, Transilvania University
Session: D3 - Design Development / 21 October, 8:30 - 10:00 - Room: UII2 / Chairman: Irimia, Cristinel			
CONAT20044081	CHOOSING THE SAFETY COEFFICIENT FOR THE VEHICLE MECHANISMS IN CONSIDERATION OF THE ECONOMIC CRITERIUM	Mateescu, Viorel	Bucharest, Politehnica University
CONAT20044072	TRANSFER CASES	Todor, Ion	Brasov, Transilvania Univ.
CONAT20044016	IMPROVEMENT OF A MOTOR GRADER FRONT AXLE CARRYING STRUCTURE ACCORDING TO LOW MANUFACTURE AND COSTS	Balazs, Tiberiu	Brasov, Cambric Consulting

PAPER CODE	TITLE	SPEAKER	Institution
CONAT20044087	RESEARCHES REGARDING THE COMPUTER SIMULATION POSSIBILITY OF THE TESTS FOR TRACTORS CABINS AND OF THE RESISTANCE AND PROTECTION PARTS OF OTHER FARM MACHINERY	Cârdei, Petru	Bucharest, INMA
Session: D4 - Design Development / 21 October, 10:30 - 12:00 - Room: UII2 / Chairman: Grovu, Mihai			
CONAT20044070	THE KINEMATICAL OPTIMIZATION OF A PLANAR SUSPENSION MECHANISM FOR AN IMPOSED ROLL CENTER HEIGHT	Alexandru, Petre	Brasov, Transilvania University
CONAT20044036	METHODS TO MODIFY THE DAMPING CHARACTERISTICS FOR A TYRE-SUSPENSION ENSEMBLE	Bolcu, Dumitru	Craiova, University
CONAT20041098	RESEARCHES OVER A NEW SELF-ADJUSTABLE SHOCK ABSORBER (VZN)	Niculescu, Adrian	Pitesti, Dacia Groupe Renault
CONAT20041035	CONSIDERATIONS REGARDING THE COMPUTATIONAL ANALYSIS FOR THE REVERSING PLAN BARS MECHANISMS	Ungureanu, Cezar Alin	Craiova, University
Session: D5 - Design Development / 21 October, 12:30 - 14:00 - Room: UII2 / Chairman: Câmpian, Ovidiu			
CONAT20044086	A HUMAN FEM MODEL PRESENTATION	Barbu, Daniela Mariana	Brasov, Transilvania University
CONAT20044024	OPTIMIZING OF DESIGN SOLUTION FOR ENGINE MOUNTED AIR CLEANER	Predica, Dan	Brasov, Cambric Consulting
CONAT20044079	PERFORMANCES OF THE HEAT EXCHANGES WITH FIELD TUBES	Nagi, Mihai	Timisoara, Politehnica University
CONAT20044026	INVESTIGATION ABOUT OPTIMIZING AN ENGINE COOLING SYSTEM WITH CYLINDRICAL VALVE AND BYPASS	Fejer, Simon Istvan	Brasov, Cambric Consulting
Session: D6 - Design Development / 21 October, 15:30 - 17:00 - Room: UII2 / Chairman: Nagi, Mihai			
CONAT20044075	DESIGN INFLUENCE IN E-ENGINEERING	Vogt, Horst	Neu-Isenburg, ICEM GmbH
CONAT20041083	CONSTRUCTION AND KINEMATICS OF AUTOMOTIVE SECONDARY LATCH MECHANISMS	Udriste, Daniel Ion	Michigan, Keykert USA, Inc.
CONAT20044027	USAGE OF DIGITAL MOCK-UP AND VIRTUAL PROTOTYPING TOOLS IN DYNAMIC SIMULATION OF THE GUIDING SYSTEMS OF THE MOTOR VEHICLES	Alexandru, Catalin	Brasov, Transilvania University
CONAT20044091	THE INFLUENCE OF NON - STATIONARY THERMAL REGIME OVER THE BEHAVIOUR OF DISKS IN ROTATING MOTION	Radu, Gheorghe N.	Brasov, Transilvania University
Session: D7 - Advanced Electronics / 21 October, 17:30 - 19:00 - Room: UII2 / Chairman: Moldoveanu, Florin			
CONAT20041104	SPECIFIC FEATURES IN THE DESIGN AND MANUFACTURING OF MICROSYSTEMS INVOLVED IN AUTOMOBILE SAFETY AND CONTROL SYSTEM	Lache, Simona	Brasov, Transilvania University
CONAT20041015	USE OF BUS SYSTEMS IN AUTOMOTIVE DRIVES	Dumitriu, Adrian	Brasov, Transilvania University
Session: D8 - Vehicle Systems / 22 October, 8:30 - 10:00 - Room: UII2 / Chairman: Manea, Laurentiu			
CONAT20041033	SOME ASPECTS REGARDING AUTOMOTIVE ELECTRICAL SUPPLY SYSTEM PERFORMANCE IMPROVEMENT	Mailat, Adrian	Brasov, Transilvania University
CONAT20041012	DESIGN CONSIDERATION FOR VOLTAGE REGULATOR MODULES USED IN AUTOMOTIVE CONTROL	Bizon, Nicu	Pitesti, University
CONAT20042018	METHOD FOR ESTIMATION THE ON BOARD ELECTRICAL ENERGY BALANCE, IN TYPICAL AUTOMOTIVE VEHICLE DRIVING CYCLE	Novac, Adrian	Brasov, INAR
CONAT20041045	POWER MANAGEMENT NAVAL SYSTEMS	Oae, Alexandru	Constanta, Naval Academy Mircea cel Batran
Session: D9 - Advanced Electronics / 22 October, 10:30 - 12:00 - Room: UII2 / Chairman: Moldoveanu, Florin			
CONAT20044012	HYBRID SOLUTION FOR AN INTEGRATED STRATER-GENERATOR IN AUTOMOTIVE APPLICATIONS	Simion, Alecsandru	Iasi, Technical University Gh. Asachi
CONAT20043004	CAR MONITORING SYSTEM USING GPS AND GPRS	Iliescu, Iulian	Brasov, Genials SRL
CONAT20041016	SOLUTIONS FOR DC MOTORS CONTROL IN AUTOMOTIVE DRIVES	Dumitriu, Adrian	Brasov, Transilvania University
Session: E1 - Manufacturing and Logistics / 20 October, 15:30 - 17:00 - Room: UII3 / Chairman: Kuchar, Peter			
CONAT20045035	STATISTICAL PROCESS CONTROL-BASE FOR CONTINUOUS IMPROVEMENT OF MANUFACTURING PROCESSES	Popescu, Mihaela	Brasov, Transilvania University
CONAT20045022	CUSTOMIZABLE SOLUTION FOR MULTI-LEVEL BILL OF MATERIALS	Muresan, Horatiu	Brasov, Prism Enterprise Solutions RDC
CONAT20045007	WORKFLOW IN THE VIRTUAL AUTOMOTIVE ENTERPRISE	Cocosila, Mihail	Hamilton, McMaster University
CONAT20045003	SOME ASPECTS CONCERNING LOW VELOCITY IMPACT RESISTANCE OF CFRP MATERIALS	Dogaru, Florin	Brasov, Transilvania University



PAPER CODE	TITLE	SPEAKER	Institution
<b>Session: E2 - Manufacturing and Logistics / 20 October, 17:30 - 19:00 - Room: UII3 / Chairman: Mihon, Liviu</b>			
CONAT20045034	MANUFACTURING TRENDS IN TRANSMISSION GEARS BASED ON THE ELECTRON BEAM WELDING	Soaita, Dumitru	Targu-Mures, Petru Maior University
CONAT20045012	INDUSTRIAL PROJECT QUALITY MANAGEMENT	Simon, Adela Eliza	Brasov, Transilvania University
CONAT20045009	REQUIREMENTS FOR THE INFORMATION QUALITY MANAGEMENT SYSTEM TO IMPLEMENT ISO/TS 16949 IN AUTOMOTIVE INDUSTRY	Bârsan-Pipu, Nicolae	Brasov, Dimitrie Cantemir Christian University
<b>Session: E3 - Life Cycle Analysis / 21 October, 8:30 - 10:00 - Room: UII3 / Chairman: Nagy, Tiberiu</b>			
CONAT20042133	EVALUATING THE FUNCTIONAL RELIABILITY OF A COMPLEX DEVICE BY DIAGNOSIS	Andresescu, Cristian	Bucharest, Politehnica University
CONAT20042121	CONTRIBUTIONS TO RESOLVING DESTRUCTION CAUSES RECORDED IN THE SOME VEHICLES ENGINES AFFECTED BY CAVITATION DUE TO THE STRUCTURE OF THE MATERIAL THE CYLINDER IS MADE OF AND TO THE CONSTRUCTION OF THE CYLINDER-HEAD GASKET	Manea, Adriana	Constanta, Ovidius University
CONAT20042096	SEARCHES ON THE FATIGUE BEHAVIOR OF THE CHAIN TRACK RECOIL CYLINDERS PURPOSING A BEST DESIGN SOLUTION	Grovu, Mihail	Brasov, Cambric Consulting
CONAT20044082	TEST STAND DESIGNED FOR THE AUTOMOBILE BODYWORK RELIABILITY EVALUATION	Filip, Nicolae	Cluj-Napoca, Technical University
<b>Session: E4 - Life Cycle Analysis / 21 October, 10:30 - 12:00 - Room: UII3 / Chairman: Gumpel, Paul</b>			
CONAT20042122	SIMULATION OF CORROSION BEHAVIOR OF STAINLESS STEELS IN PASSENGER EXHAUST SYSTEMS	Hoffmann, Cristina	Konstanz, Fachhochschule
CONAT20041007	THE BALL SHIFTING BEARINGS CHANNELS PROFILE INFLUENCE OVER THE FRICTION COEFFICIENT	Cozma, Rodica	Brasov, Transilvania University
CONAT20042120	CONTRIBUTIONS TO THE CAUSES OF DESTRUCTIONS RECORDED IN VEHICLES' ENGINES REGARDING THE COMPLEX ANALYSIS OF INTERACTION COOLING LIQUIDS-CYLINDER JACKET	Manea, Adriana	Constanta, Ovidius University
<b>Session: E5 - Life Cycle Analysis / 21 October, 12:30 - 14:00 - Room: UII3 / Chairman: Nagy, Tiberiu</b>			
CONAT20042119	CONTRIBUTIONS TO THE CAUSES THAT LED TO DESTRUCTIONS IN VEHICLES ENGINES WITH REFERENCE TO CYLINDER BLOCK CONSTRUCTION AND ITS INTERACTION WITH THE COOLING LIQUID USED	Manea, Laurentiu	Constanta, Ovidius University
CONAT20042111	PROGRAMME COMPUTE FOR THE WEIBULL DISTRIBUTION EVALUATION, DESCRIBED BY TWO VARIABLE PARAMETERS	Munteanu, Vlad	Cluj-Napoca, Technical University
CONAT20042103	BRAKING STUDY ON CARS WITH GROSS WEIGHT LESS THAN 700 KG	Dima, Dragos	Brasov, Transilvania Univ.
<b>Session: E6 - Manufacturing and Logistics / 21 October, 15:30 - 17:00 - Room: UII3 / Chairman: Bobescu, Gheorghe</b>			
CONAT20044088	NEW DEVELOPMENTS IN MATERIALS FOR CAR BODY APPLICATIONS	Gumpel, Paul	Konstanz, Fachhochschule
CONAT20045031	ASPECTS REGARDING WINDSHIELD BONDING TECHNOLOGY DEVELOPED BY SIKA	Vieru, Radu	Brasov, Sika Romania SRL
CONAT20045027	EXPERIMENTS CONCERNING THE ECOLOGICAL ALLOYS WITH A SN-SB BASE USED FOR THE MANUFACTURING OF BEARINGS	Hutiu, Gheorghe	Arad, Aurel Vlaicu University
CONAT20045030	MODELLING AND MATHEMATICAL SIMULATION USED FOR THE TESTING OF SPECIFIC PARAMETERS OF PARTS RECONDITIONED VIA BUILD-UP SURFACING	Halaciuga, Ioan	Arad, Aurel Vlaicu University
<b>Session: E7 - Manufacturing and Logistics / 21 October, 17:30 - 19:00 - Room: UII3 / Chairman: Turea, Nicolae</b>			
CONAT20045028	EXPERIMENTS CONCERNING THE ELIMINATION OF CD AND AS THROUGH VACUUM EVAPORATION FROM ANTIFRICTION ALLOYS WITH A SN-SB BASE USE DFOR THE MANUFACTURING OF BEARINGS	Hutiu, Gheorghe	Arad, Aurel Vlaicu University
CONAT20045029	EXPERIMENTS CONCERNING THE IMPORVEMENT OF THE QUALITY OF PARTS RECONDITIONED BY BUILD-UP SURFACING WITH METALLIC MATERIAL	Halaciuga, Ioan	Arad, Aurel Vlaicu University
CONAT20045019	THE USE OF HIGH PERFORMANCE COATINGS AT COMPONENTS OF INTERNAL COMBUSTION ENGINES	Radu, Ioan-Serban	Konstanz, University Of Applied Sciences
CONAT20045006	TEMPERATURE DEPENDENCE OF A FEW MATERIAL PROPERTIES ANALYSIS IN CASE OF METALLIC MATRIX COMPOSITE MATERIALS USED IN THE BRAKE MANUFACTURING PROCESS	Luca Motoc, Dana	Brasov, Transilvania University
<b>Session: E8 - Manufacturing and Logistics / 22 October, 8:30 - 10:00 - Room: UII3 / Chairman: Bratucu, Gheorghe</b>			
CONAT20045036	RESEARCHES CONCERNING THE RECOVERING OF THE PARTS FROM THE INSPECTION EQUIPMENT THROUGH LAYERS OF PLASMA MEDIUM	Bratucu, Gheorghe	Brasov, Transilvania University
CONAT20045040	HO MACH PROCESSING IN AUTOMOTIVE MANUFACTURING	Grama, Lucian	Târgu Mures, Petru Maior University
CONAT20045037	MANUFACTURING PROCESS OF FLAT AND CONICAL SURFACES OF GEARS BY SUPERFINISH	Lepadatescu, Badea Dan	Brasov, Transilvania University

PAPER CODE	TITLE	SPEAKER	Institution
CONAT20045039	USING THE COMPOSITE MATERIALS AS FUNCTIONAL PIECES FOR REAR AXLE SUSPENSION	Pana, Gabriela Monica	Craiova, University
Session: E9 - <b>Manufacturing and Logistics</b> / 22 October, 10:30 - 12:00 - Room: UII3 / Chairman: <b>Bratucu, Gheorghe</b>			
CONAT20045005	THEORETICAL APPROACHES ON NOVEL UNI- AND MULTILAYERS ARCHITECTURES OF PARTICLE REINFORCED COMPOSITE MATERIALS	Luca Motoc, Dana	Brasov, Transilvania University
CONAT20045011	PROJECT MANAGEMENT IN INDUSTRIAL PROJECTS - A WAY TO INCREASE THE PERFORMANCE	Dumitrascu, Dorin	Brasov, Transilvania University
Session: F1 - <b>Mechatronics</b> / 20 October, 15:30 - 17:00 - Room: UII6 / Chairman: <b>Dumitriu, Adrian</b>			
CONAT20041019	DEVELOPMENT OF BALL SCREW DRIVES FOR AUTOMOTIVE APPLICATION	Grau, Ulrich	Herzogenaurach, INA Schaeffler KG
CONAT20044074	TWIN CLUTCH AND ACTUATING MECHANISM AS A SYSTEM	Hommm, Manfred	Buhl, LuK GmbH and Co
CONAT20044013	QUICK CHANGING ACTUATORS FOR SAFETY SYSTEMS IN AUTOMOBILES	Kilpert, Heinrich	Konstanz, Fachhochschule
Session: F2 - <b>Mechatronics</b> / 20 October, 17:30 - 19:00 - Room: UII6 / Chairman: <b>Dumitriu, Adrian</b>			
CONAT20041059	DEMONSTRATOR ELECTRO-PNEUMATIC SYSTEM FOR CAR CLUTCH AND GEARBOX ACTUATION	Dogariu, Mihai	Brasov, Transilvania University
CONAT20041018	ACTIVE AND SEMI-ACTIVE SUSPENSION DESIGN	Moldoveanu, Florin	Brasov, Transilvania Univ.
CONAT20043003	THE DETERMINATION OF THE PERFORMANCE MAP FOR A NATURALLY ASPIRATED DIESEL ENGINE IN ORDER TO CREATE THE SOFTWARE FOR THE ON BOARD INFORMATION SYSTEM	Dumitru, Ilie	Craiova, University
Session: F3 - <b>Biofuels</b> / 21 October, 8:30 - 10:00 - Room: UII6 / Chairman: <b>Pana, Constantin</b>			
CONAT20042039	ETHANOL ENRICHED BIODIESEL AS A FUEL FOR COMPRESSION IGNITION ENGINES	Polák, Martin	Praga, Czech University of Agriculture
CONAT20042001	ABOUT THE COMPARATIVE TESTING OF SOME VEGETABLE OILS WITH DIESEL OIL AS FUEL FOR RUNNING THE SMALL DIESEL ENGINES	Prateepchaikul, Gumpon	Hat Yai, Prince of Songkla University
CONAT20042104	EVALUATION OF THE PERFORMANCE AND FUEL CONSUMPTION PARAMETERS OF THE D-118 ENGINE THAT USES AS FUEL USED OIL FROM FOOD INDUSTRY	Burnete, Nicolae	Cluj-Napoca, Technical University
Session: F4 - <b>Biofuels</b> / 21 October, 10:30 - 12:00 - Room: UII6 / Chairman: <b>Postelnicu, Adrian</b>			
CONAT20042015	EXPERIMENTAL AND SIMULATION STUDY OF EXHAUST EMISSION IN DIRECT INJECTION BIOFUEL DIESEL ENGINE	Mitianiec, Wladyslaw	Cracow, University of Technology
CONAT20042114	MIXES OF THE DIESEL FUEL WITH VEGETAL OIL – ALTERNATIVE FUELS FOR THE DIESEL ENGINES	Burnete, Nicolae	Cluj-Napoca, Technical University
CONAT20042130	STUDIES AND RESEARCHES CONCERNING THE WORKING OF THE DIESEL ENGINES WITH FUEL-ALCOHOL MIXTURES	Mihon, Liviu	Timisoara, Politehnica University
CONAT20042070	EFFECTS OF USING A DIESEL FUEL BLENDED WITH VEGETABLE OIL ON DI DIESEL ENGINES EMISSIONS	Cofaru, Corneliu	Brasov, Transilvania University
Session: F5 - <b>Biofuels</b> / 21 October, 12:30 - 14:00 - Room: UII6 / Chairman: <b>Ispas, Nicolae</b>			
CONAT20042068	EFFECTS OF DIESEL FUEL BLENDED WITH RAPESEED OIL ON AIR-FUEL MIXING AND COMBUSTION PROCESSES OF A TURBOCHARGED DI DIESEL ENGINE	Ispas, Nicolae Cofaru, Corneliu	Brasov, Transilvania University Brasov, Transilvania University
CONAT20042037	RESEARCH REGARDING ENERGETICAL AND ECOLOGICAL PERFORMANCES ON 392-L4-DT D.I. DIESEL ENGINE USING BIODIESEL DERIVED FROM RAPESEED OIL AND DIESEL FUEL BLENDED	Dumitrascu, Dorin	Brasov, Transilvania University
CONAT20041093	THE MULTIDIMENSIONAL MODELATION OF THE BIOFUELS SPRAY	Barabás, István	Cluj-Napoca, Technical Univ.
Session: F6 - <b>Alternative Fuels</b> / 21 October, 15:30 - 17:00 - Room: UII6 / Chairman: <b>Sandu, Venetia</b>			
CONAT20042095	DEVELOPMENT OF A SINGLE CYLINDER IC ENGINE FOR HYDROGEN	Sierens, Roger	Ghent, University
CONAT20042080	THE INFLUENCE OF ALTERNATIVE FUELS ON TWO STROKE ENGINE PERFORMANCES AND POSSIBILITIES OF ENERGETIC OUTPUT COMPENSATION USING THE "WAVE" SOFTWARE	Abaitancei, Dan	Brasov, Transilvania University
CONAT20042115	LIQUID PETROLEUM GAS USED IN DIESEL ENGINE	Cristea, Dumitru	Pitesti, University
CONAT20042049	PRIORITIES IN TUNE WITH THE FUTURE OF BI-FUELED LPG/GASOLINE VEHICLES	Ivascu, Aurica	Craiova, Daewoo Automobile Romania
CONAT20042057	LIFE CYCLE ANALYSIS OF BIODIESEL VEHICLES	Frunze, Oleg	Chisinau, The Academy of Transports, Informatics and Communications
Session: F7 - <b>Alternative Fuels</b> / 21 October, 17:30 - 19:00 - Room: UII6 / Chairman: <b>Radu, Gheorghe Alexandru</b>			
CONAT20042131	DIMETHYL ETHER - ECOLOGICAL FUEL FOR DIESEL ENGINES	Pana, Constantin	Bucharest, Politehnica University
CONAT20042126	THE PROCESSING OF AUTOGAS AT SISTEMGAS TIMISOARA	Alexandru, Dan	Timisoara, Sistemgas

PAPER CODE	TITLE	SPEAKER	Institution
CONAT20042036	A STUDY OF LPG COMBUSTION IN A SPARK IGNITION ENGINE	Chiriac, Radu	Bucharest, Politehnica University
CONAT20042059	RESEARCHES REGARDING THE LPG FUELLING OF THE DACIA 1.6 L ENGINE	Marinescu, Danut Gabriel	Pitesti, University
Session: F8 - Noise Reduction / 22 October, 8:30 - 10:00 - Room: UII6 / Chairman: Filip, Nicolae			
CONAT20042092	ABOUT THE ISOLATION OF NOISES WITH THE HELP OF RUBBER PIECES ON AN INTERNAL COMBUSTION ENGINE	Alexandrescu, Luciu	Brasov, Transilvania University
CONAT20042002	EXPERIMENTAL DETERMINATION OF NOISE LEVEL AT THE DRIVING AXLE IN ORDER TO REDUCE THE EXTERIOR NOISE OF THE ROMAN VEHICLES	Marcu, Mihail-Tudor	Brasov, ROMAN
CONAT20041096	RESEARCH CONCERNING AN ACOUSTIC EQUIPMENT DESIGN FOR IMPROVE THE INTAKE AIR PARAMETERS FOR DIESEL ENGINE	Filip, Nicolae	Cluj-Napoca, Technical University
CONAT20042093	SELECTION OF ABATEMENT TECHNIQUES BASED ON ENGINE NOISE ANALYSIS	Sandu, Venetia	Brasov, INAR
Session: G1 - Accident Analysis / 20 October, 15:30 - 17:00 - Room: UII7 / Chairman: Seitz, Nicolae			
CONAT20042063	STAGED COLLISION ANALYSE	Rusitoru, Florin	Bucharest, National Institute of Forensic Expertise
CONAT20042069	ACCIDENT RECONSTRUCTION EXAMPLE - A POSSIBLE MODALITY FOR ROLLOVER "AFTER THE FACT" STUDY	Preda, Ion	Brasov, Transilvania University
CONAT20044047	STUDY REGARDING THE INFLUENCE OF ACCELERATION'S SUPERIOR DERIVATES AS PART OF AUTOMOTIVE CRASH EVENTS	Trusca, Dan	Brasov, Transilvania University
Session: G2 - Occupant Protection / 20 October, 17:30 - 19:00 - Room: UII7 / Chairman: Seitz, Nicolae			
CONAT20044083	COCKPIT ARCHITECTURE RESEARCH USING THE NEW 2D MANNEQUIN CONCEPT	Sisman, Viorel	Brasov, Transilvania University
CONAT20044090	AUTOMATION TOOL FOR THE 2D COCKPIT ARCHITECTURE RESEARCH	Sisman, Viorel	Brasov, Transilvania Univ.
CONAT20044085	MODELING OF THE HUMAN BODY IN ACCIDENT SIMULATION	Barbu, Daniela Mariana	Brasov, Transilvania University
CONAT20044035	MEASURES UNDERTAKEN IN ORDER TO REDUCE INJURIES DURING THE VEHICLE - PEDESTRIANS COLLISIONS	Soica, Adrian	Brasov, Transilvania University
CONAT20044046	CONTRIBUTIONS TO SUBJECTIVITY REDUCTION CONSIDERING AUTOMOTIVE EXTERNAL PASSIVE SAFETY	Toganel, George-Radu	Brasov, Transilvania University
Session: G3 - Engineering Training / 21 October, 8:30 - 10:00 - Room: UII7 / Chairman: Ispas, Nicolae			
CONAT20046013	EXTERNAL ENGINEERING - A GROWING MARKET	Hoffmann, Wolfgang	Konstanz, HPE
CONAT20046012	BOMERANG - A GATEWAY FOR DATA MIGRATION, TEAMCENTER INTEGRATION AND COLLABORATION	Hogiu, Sorin	Brasov, Prism Enterprise Solutions RDC
CONAT20046005	CAD - WEBDAV ADAPTOR: PREMISES FOR A LIGHT PLM SOLUTION	Covaciu, Dinu	Brasov, Transilvania Univ.
CONAT20046001	SINGLE POINT CONTROL OF ALL CASING, MACHINING AND PIPING APPLICABLE INTO A PUMP FAMILY	Albu, Horatiu	Brasov, Cambric Consulting
Session: G4 - Engineering Training / 21 October, 10:30 - 12:00 - Room: UII7 / Chairman: Bacanu, Gheorghe			
CONAT20046016	M-DESIGN - E-ENGINEERING PLATFORM FOR CONCEPTUAL DESIGN AND PRODUCT DEVELOPMENT	Gründer, Willi	Bochum, TEDATA
CONAT20046002	OPTIMUM UTILIZATION OF PRO/E FUNCTIONS IN ORDER TO MANAGE A COMPLEX GEARBOX HOUSING FAMILY	Popa, Eduard	Brasov, Cambric Consulting
CONAT20046010	THE MARS-EAN AUTO-MOTIVES. HISTORICAL, TECHNICAL, DIDACTICAL, PHILOSOPHICAL ASPECTS. LONG LIFE ENGINEERING LEARNING METHODS	Sofonea, Liviu Alexandru	Brasov, Transilvania University
CONAT20046015	EXPERIENCES APPLYING "EDUCATION BY RESEARCH PRINCIPLES" ON THE ECOSONIC CONCEPT CAR	Abaitancei, Horia	Brasov, Transilvania University
Session: G5 - Engineering Training / 21 October, 12:30 - 14:00 - Room: UII7 / Chairman: Csatos, Carol			
CONAT20045038	AIRCRAFT ENGINES MANUFACTURED AT IAR BRASOV	Salca, Horia	Brasov, Transilvania Univ.
CONAT20046008	MAKING USE OF E-LEARNING TECHNIQUES FOR THE STUDY OF COMPUTER SYSTEM ADMINISTRATION	Florea, Ion	Brasov, Transilvania University
CONAT20046006	COMPUTER AIDED ENGINEERING TRAINING - THEORETICAL CONCEPTS AND APPLICATIONS	Bacanu, Gheorghe	Brasov, Transilvania University
CONAT20046009	EUROPEAN COMPUTER DRIVING LICENSE AND PROFESSIONAL INSERTION IN AUTOMOTIVE INDUSTRY	Ispas, Adriana	Brasov, Chamber of Commerce and Industry
Session: G6 - Vehicle Dynamics / 21 October, 15:30 - 17:00 - Room: UII7 / Chairman: Câmpian, Vasile			
CONAT20041023	VEHICLE BODY SIDE SLIP ANGLE OBSERVER	Moldoveanu, Florin	Brasov, Transilvania Univ.
CONAT20041063	THEORETICAL AND EXPERIMENTAL RESEARCH FOR VEHICLES HANDLING IMPROVEMENT	Enache, Valeriu	Brasov, Transilvania University

PAPER CODE	TITLE	SPEAKER	Institution
CONAT20041079	ASPECTS REGARDING ALL WHEEL DRIVE VEHICLE'S STABILTY AT CORNERING	Badarau Suster, Helene	Pitesti, University
CONAT20041070	SIMULATION OF DRIVER BEHAVIOUR IN CORNERING MANOEUVRE	Preda, Ion	Brasov, Transilvania Univ.
Session: G7 - Vehicle Dynamics / 21 October, 17:30 - 19:00 - Room: UII7 / Chairman: Ciolan, Gheorghe			
CONAT20041060	COMPUTER MODEL TO SIMULATE THE VEHICLE LONGITUDINAL DYNAMICS	Preda, Ion	Brasov, Transilvania Univ.
CONAT20041061	MECHANICAL LOADS ACTING ON HEAVY VEHICLE DRIVETRAIN	Preda, Ion	Brasov, Transilvania Univ.
CONAT20041080	THE INFLUENCE OF ROAD-TYRE CONTACT SURFACE LONGITUDINAL FORCES UPON THE AUTOMOBILE STABILITY	Macarie, Tiberiu	Pitesti, University
CONAT20041042	ALGORITHM DETERMINING THE ECONOMICAL AND TRACTION PERFORMANCES OF TRACTORS WITH HYDRODYNAMIC TORQUE CONVERTER	Nastasoiu, Mircea	Brasov, Transilvania University
CONAT20041043	DETERMINING THE COEFFICIENT OF KINEMATIC NON-CONCORDANCE BETWEEN THE SPEEDS REACHED BY WHEELS ON BOTH AXLES AT FOUR-WHEEL TRACTORS THROUGHOUT THE DESIGNING STAGE	Nastasoiu, Mircea	Brasov, Transilvania University

**20 / 21 October – International Congress Center - Room UI7**

## Students & Young Engineers Congress

**17:00 - 17:30 COFFEE BREAK**

PAPER CODE	TITLE	STUDENT/ Institution
Session: H1 – Student Congress / 20 October, 15:30 – 17:00 - Room: UI7 / Chairman: Nastasoiu, Mircea		
CONAT2004S101	A PRELIMINARY STUDY FOR THE DEVELOPMENT OF A FUZZY CONTROLLER OF THE SONIC PROPULSION SYSTEM	Barascu, Codrut Brasov, Transilvania University
CONAT2004S102	CALCULLUS EVALUATION OF THE WTI TOXICITY MEAN COEFFICIENT	Boaru, Lacramioara, Timisioara Politehnic Univ.
CONAT2004S103	HIP DISPLACEMENTS OF VEHICLE OCCUPANTS RESTRAINED BY SEAT BELTS IN FRONTAL IMPACTS	Chiru, Mihai Costin, Cluj, UMF Iuliu Hateganu
CONAT2004S104	STUDY CONCERNING THE ELABORATION OF A PROJECT WITH THE VIEW OF FINANCING FOR A EUROPEAN FIRM OF CARS PIECES	Cruceana, Ruxandra, University of Pitesti
CONAT2004S105	MULTI-SCALE FUZZY MODELLING OF SONIC PROPULSION SYSTEM	Denitiu, Marian Brasov, Transilvania Univ.
CONAT2004S106	EVOLUTIONARY STRATEGY APPLIED TO OPTIMIZE THE EXPERIMENTAL MODEL OF SONIC AND HYDRAULIC SHOCK ABSORBER ENERGY RECOVERY SYSTEM	Duca, Cosmin Brasov, Transilvania University
Session: H2 – Student Congress / 20 October, 17:30 – 19:00 - Room: UI7 / Chairman: Preda, Ion		
CONAT2004S107	DYNAMICAL SYSTEM IDENTIFICATION USING NEURAL NETWORK APPROACHES OF A SONIC PROPULSION SYSTEM	Dumitrovici, Adrian Brasov, Transilvania University
CONAT2004S108	A STUDY OF VEHICLE RUNNING CONDITIONS FOR THE IDENTIFICATION OF THE POTENTIAL OF SHOCK ABSORBER ENERGY RECOVERY	Dragu, Catalin Brasov, Transilvania University
CONAT2004S109	INTERACTIVE SIMULATION AND VIRTUAL PROTOTYPING OF A RADIAL HYDROSTATIC MOTOR FOR AUTOMOTIVE APPLICATIONS	Foica, Florin Brasov, Transilvania University
CONAT2004S110	EFFICIENCY IMPROVEMENT OF A SPARK IGNITION ENGINE AT PART LOADS THROUGH VARIABLE COMPRESSION RATIO	Manole, Ionut ,University of Pitesti
CONAT2004S111	THE INTERDISCIPLINARY STUDY OF THE VEHICLE BODY OF A SUV BASED ON THE M461 WITH SONIC ALTERNATIVE PROPULSION SYSTEM	Mititelu, Mihai Brasov, Transilvania University
Session: H6 – Student Congress / 21 October, 15:30 – 17:00 - Room: UI7 / Chairman: Campean, Ovidiu		
CONAT2004S112	THE INTERDISCIPLINARY STUDY OF THE AUTOMOTIVE EXHAUST SYSTEM	Niculescu, Mircea Brasov, Transilvania University
CONAT2004S113	THE DESIGNING OF A DEVICE OF HOLES WITH PROGRAM AUTOCAD	Parcalabu, Ciprian ,University of Pitesti
CONAT2004S114	ROAD VEHICLE FOR FUN	Piscu, Razvan Brasov, Transilvania Univ.
CONAT2004S115	STUDY REGARDING AIR QUALITY IN URBAN AREAS. CASE STUDY: CITY OF TIMIȘOARA	PhD. Eng. Popescu, Francisc, Timisioara Politehnic University
CONAT2004S116	TRANSESTERIFICATION OF ANIMAL FATS WITH HIGH FFA CONTENT FOR BIODIESEL PRODUCTION	PhD. Eng. Popescu, Francisc, Timisioara Politehnic University
Session: H7 – Student Congress / 21 October, 17:30 – 19:00 - Room: UI7 / Chairman: Blemovici, Alexandru		
CONAT2004S117	REALIZATION OF A PROGRAM FOR THE PROJECTION LINE OF PRODUCTION OBJECT UTILIZING THE METHOD "FICTITIOUSLY SCALE"	Rotaru, Ana, University of Pitesti
CONAT2004S118	DESIGN SENSITIVITY AND OPTIMISATION POSSIBILITIES OF SONIC PROPULSION SYSTEM FOR AUTOMOTIVE APPLICATIONS	Simionescu, Florin Brasov, Transilvania University
CONAT2004S119	EXPERIMENTAL SYSTEM IDENTIFICATION OF SONIC PROPULSION SYSTEM MODELS	Supuran, Corvin Brasov, Transilvania University
CONAT2004S120	MODELLING OF VEHICLE WITH SONIC PROPULSION SYSTEM USING TRANSFER MATRIX METHODS	Szente, Csaba Brasov, Transilvania University

**Students & Young Engineers Congress - Award Festivity**

# Students & Young Engineers

## Student and Youth Congress

The CONAT Student and Youth Congress, which runs parallel to the main Congress from 20 to 22 October 2004, allows students and young engineers from all over the world a unique opportunity to participate in an international meeting and present a paper related to automotive transportation and technology.

They will be free to attend the main congress Plenary Sessions in the morning, and will have their own Technical Sessions in the afternoon. They will also be given the opportunity to discuss and elaborate on a case study of a chosen automotive company in a working-session. The themes for the Student Congress are the same as those for the main congress:

- **Innovative Technologies for Automotives**
- **Automotive and Environment**
- **Advanced Transport Systems**
- **Automotive Systems**
- **Manufacturing and logistics**
- **Engineering Training**

The best paper will receive an award.

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**CONAT Student Session takes place on 20 oct. and 21 oct., between 15:30-19:30, room UI7.**

# Technical Visits

The organizing committee is pleased to offer the opportunity to visit the following technical facilities. All visits are offered free of charge and can be recorded at Registration Desk.

## INA Schaeffler - Brasov



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**Friday 22 October 12:30-16:00**

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produces elegant leather ornaments for clients such as BMW, DEIMLER-CHRYSLER and AUDI, while also being a R&D and Manufacturing Center for production means, all with a total of 650 employee.

Reached 10 years of activity in producing wood ornaments for AUDI, BMW, DEIMLER-CHRYSLER, PORSCHE and TOYOTA automobiles with about 4000 employee.

DTR Dräxlmaier Sisteme Tehnice Romania  
Gradinarilor Str., No.29  
505100 Codlea, Brasov  
[www.draexlmaier.de](http://www.draexlmaier.de)

Rolem SRL  
Garii Str., No.25  
505100 Codlea, Brasov

**Friday 22 October 12:30-16:00**

## S.C. Lubrifer S.A.



The lubricants manufacturer, SC LUBRIFIN SA inaugurated on June 25, 2004, the Oils Factory from Cristian-Brasov, its greatest achievement along the 125 years of existence. With a capacity of production of 30.000 tones/year, the plant was built from the grass root to the key handling by the famous French designer ABB-Cellier. The investment costed over 16 millions EUR.

As a sign of trusting in the development capacity of S.C. UBRIFIN S.A., the representative of the business partner OXBOW AG handed the general manager of the firm, Ioan Mihail Costea, a booklet representing the title of ownership for a lot of 10 millions square meters on March, with the purpose: the construction of a lubricants factory.

SC LUBRIFIN SA  
Harmanului Str., No.52  
500222 Brasov  
TEL: +40-268-333450

**Friday 22 October 12:30-16:00**

## S.C. Romradiatoare S.A.



Romradiatoare has specialized into producing and delivering heat exchangers for all vehicle types:

- water heat exchangers;
- oil heat exchangers;
- oil coolers / oil-water exchangers;
- coolers and habitat climate devices;
- oil pan air filters;
- compensation / balance tanks.

500053 Brasov, Brasov  
Cristianului Road, No.1-3  
TEL: +40-268-418722

**Friday 22 October 12:30-16:00**

# Exhibition

## Opening Hours

Wednesday	20 October 09:00-19:00
Thursday	21 October 08:30-19:00
Friday	22 October 08:30-13:30

## Official Opening:

Wednesday 20 October 09:00 AM

The CONAT 2004 Exhibition is a global showcase for companies offering solutions in every area of automotive research, design, development and production. Attendees can visit the exhibition throughout the congress to gain hands-on experience of the latest technologies, products and services on display from leading automotive companies from all over the world.

The exhibition is a great opportunity to network with potential customers, suppliers and fellow engineers, and to gain advantages in the fast-growing Romanian automotive markets. Coffee is served in the exhibition hall twice each day. Admission to the exhibition area is available free of charge to automotive professionals, in addition to delegates attending the congress.

For the latest exhibitor list, please check the web site: [conat.unitbv.ro](http://conat.unitbv.ro) or [www.fisita.com](http://www.fisita.com)

## Why Exhibit?

CONAT delegates are senior technical decision-makers. They attend the CONAT2004 from 16 countries. On average, more than 40% work for vehicle manufacturers, and the vast majority are directly involved in purchasing decisions.

This makes CONAT 2004 the perfect environment for companies involved in the supply of:

- \* Automotive components & systems
- \* Materials & coatings
- \* Manufacturing solutions
- \* Engineering Training
- \* Engineering design / consulting
- \* Testing & measurement services
- \* Software & IT
- \* Styling / prototype development services
- \* Logistics support

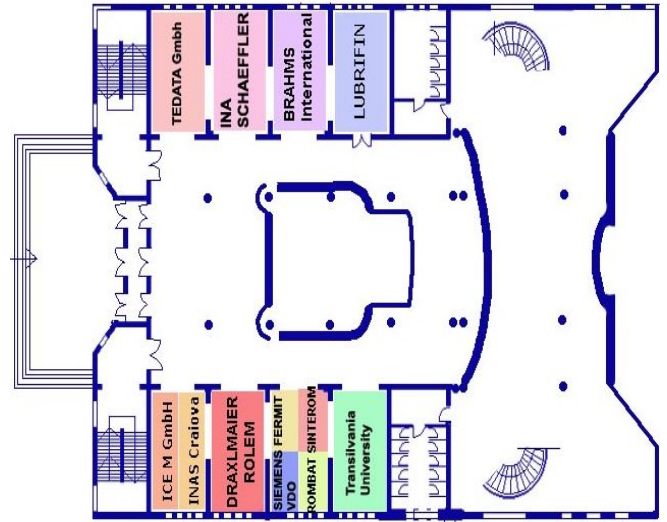
## Commercial Presentations & Sponsorship:

Exhibitors and sponsors also have the opportunity to deliver 30 minute presentations on their products and services to invited guests and delegates in a dedicated facility during the congress.

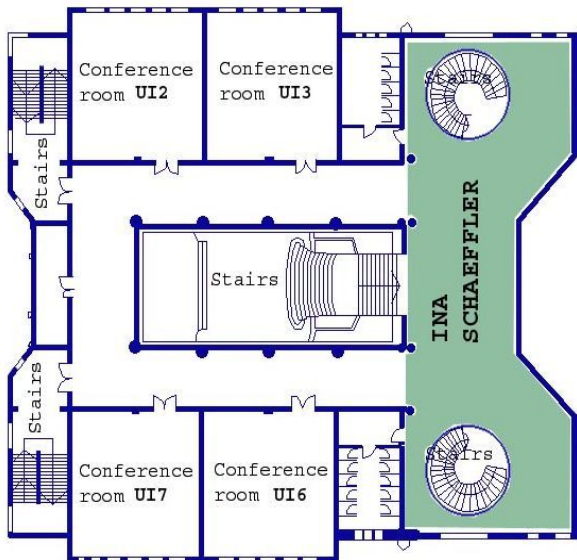
# Floor Plan

**THE INTERNATIONAL CONGRESS CENTER**  
 will host the following:

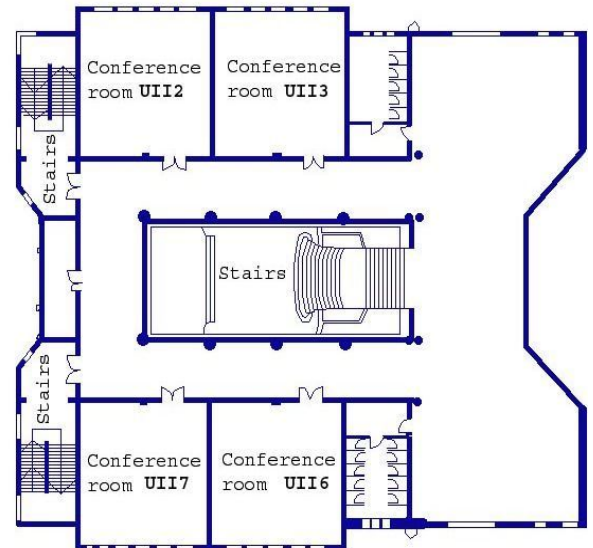
- Ground Floor: Exhibition;
- First Floor: Exhibition, Congress Sessions;
- Second Floor: Congress Sessions.



Level 0: Exhibition



Level 1: Exhibition, Conference Area



Level 2: Conference Area



# General Information

## Entry into Romania

A valid passport is required for entry into Romania. UE citizens do not require visas.

## Transport from the Airport

### By car:

You can reach Brasov on Bucuresti (Otopeni Airport) - 166 Km: Bucharest - Brasov E 60

### By train:

Tickets can be bought one hour before departure at the station or in advance at the downtown CFR booking office (CFR Agency) but not for departure on the same day.

Supplements are payable on rapid and express trains for which seats must be reserved in advance.

### By bus:

To travel by bus contact a travel agency.

I.e. visit <http://www.brasovtravelguide.ro/bv-en/getting-there/bus.php> web site.

## Transport in Brasov

City transportation is being provided by the following transportation methods:

- RATBv bus / trolley bus / tram, with a ticket of 8000 Lei / travel (aprox 20 EuroCents / travel) or
- by private taxi companies which offer service for about 8000 Lei/km (aprox. 20 EuroCents/ km).

For RATBv transportation service a daily ticket can be acquired for about 40.000 lei (aprox. 1 Euro).

**Note:** RATBv travel itineraries linking the City with Poiana Brasov or suburban regions have other costs / ticket.

## Congress Language

The official language of the CONAT Congress is English.

## Programme Changes

The organizers are not liable for any changes made to the programme. Please visit the web site regularly for updates.

## Climate

Brasov has a temperate-continental climate with cold and relatively wet weather in the mountains. The summer nights in Brasov could be a little chilly.

The average temperature is 7.6 degrees C and the annual average humidity in the air is 75%. The highest temperature in summer is 35.0 degrees C and the lowest in winter is -25 degree C.

## Currency

The currency in Brasov is **Lei**. Money can easily be exchanged at banks as well as at the exchange booths located in the city centre and at tourist sites.

## Time Zone

Brasov is on Eastern European Time (GMT + 2h).

## Registration Desk

Opening Hours:

19 October	13:00 – 19:00	Aro Palace Hotel
20 October	08:00 – 09:00	Cultural "Reduta" Center
	14:00 – 19:30	International Congress Center
21 October	08:00 – 19:30	International Congress Center
22 October	08:00 – 10:00	International Congress Center

## Coffee Breaks

Will be available at 10:00, 12:00 and 17:00 for half hour each.

## Insurance & Liability

Registered participants agree that neither Transilvania University nor other organizer part take any responsibility for any damages or losses, including medical expenses, suffered or incurred whilst attending the Congress. Delegates are strongly advised to make their own arrangements in terms of medical, travel and personal insurance.

# General Information

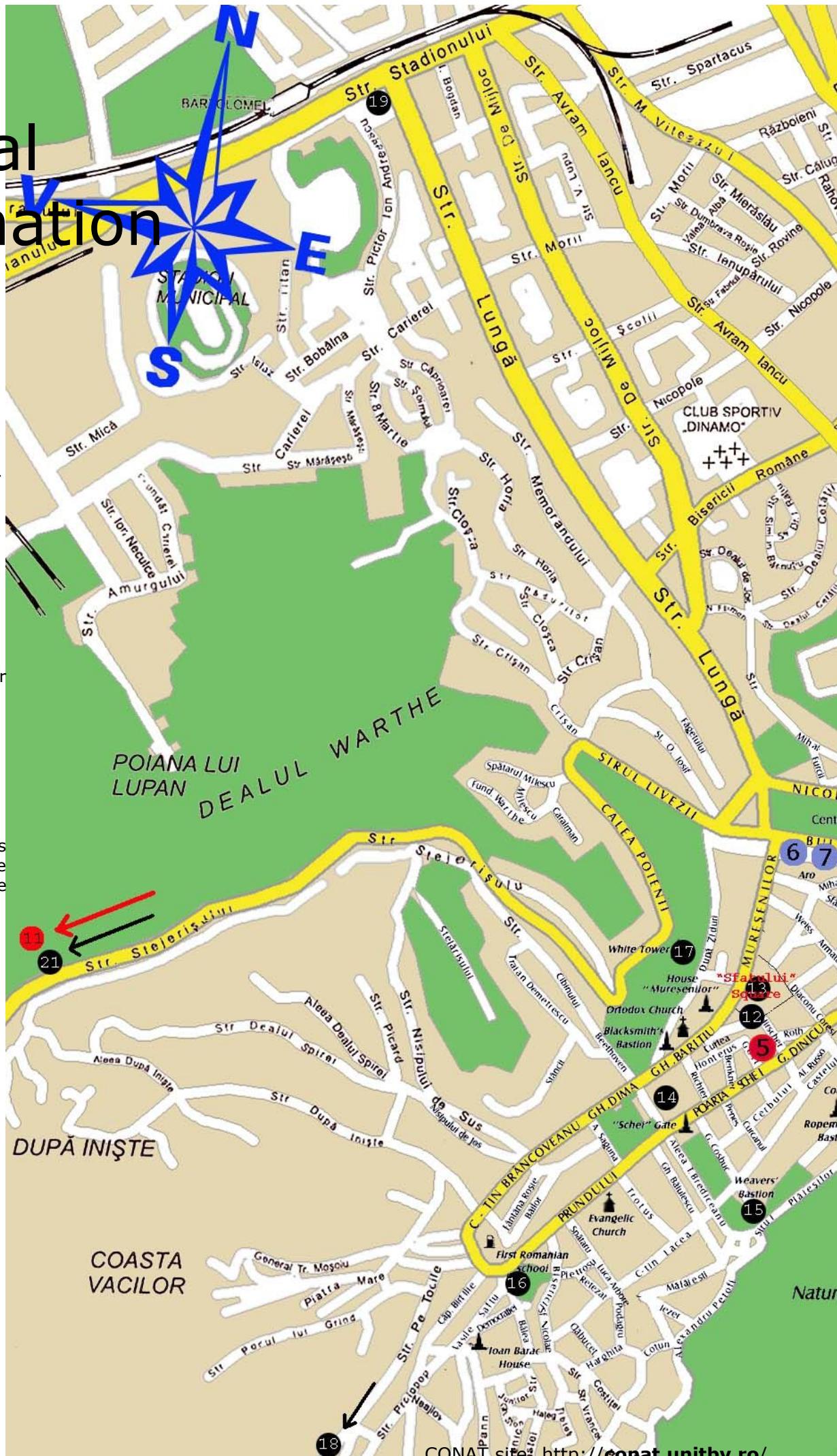
## CONAT Interest Points

- 1) Brasov Station
- 2) International Congress Center
- 3) Mechanical Engineering Faculty
- 4) University's "Colina" Complex
- 5) Cultural Center "Reduta"

## Accommodation

The following hotels were enlisted in the registration form we provided you with:

- 6) Aro Palace \*\*\*\*
- 7) Aro-Sport\*
- 8) Capitol \*\*\*
- 9) Corona\*\*
- 10) Postavarul\*\*



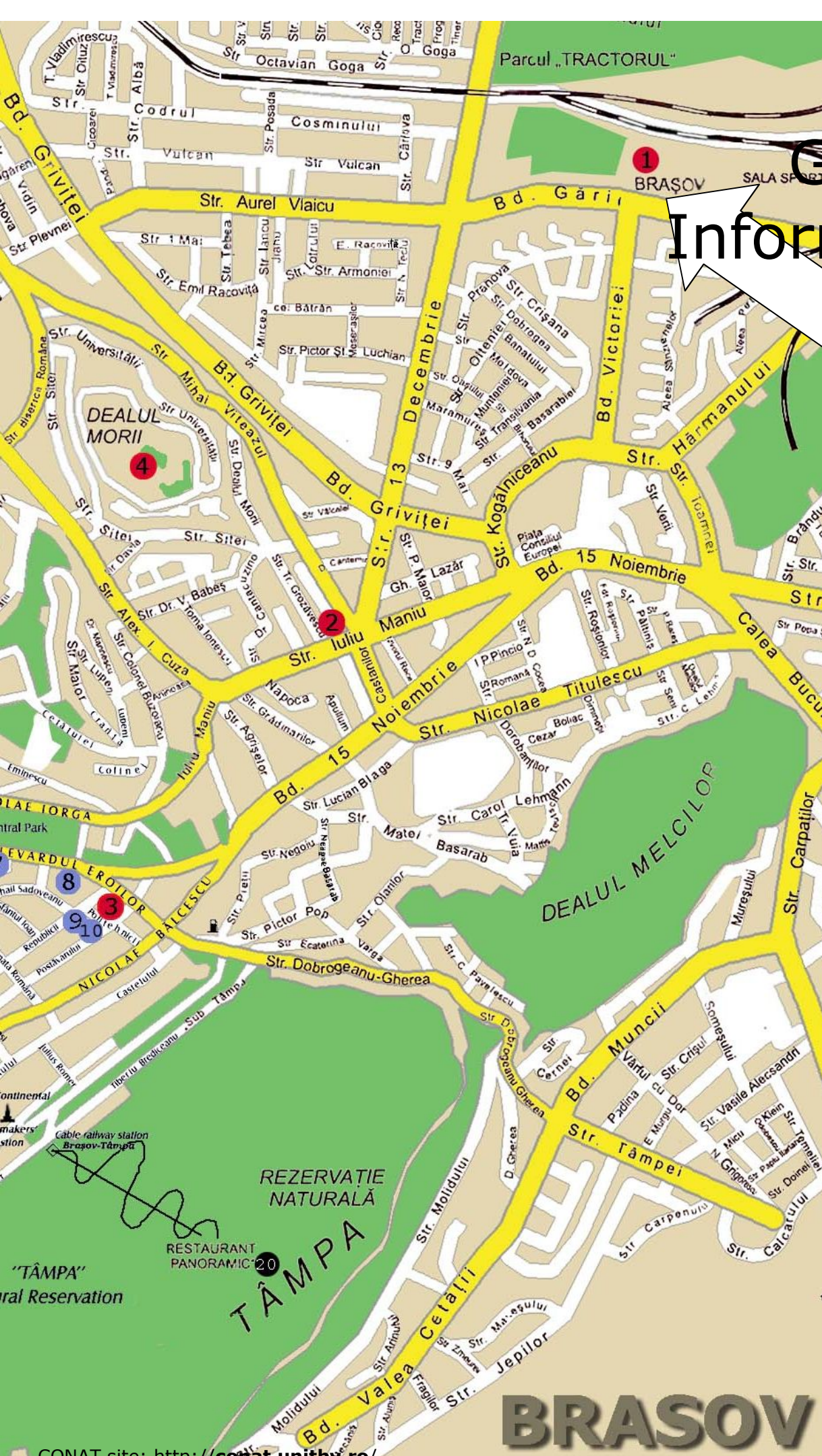
# General Information

If reached the city by train, one should find himself HERE:

- 1) Brasov Station

## Social Interest Points

- 11) Poiana Brasov Resort
- 12) Black Church
- 13) "Sfatului" Square
- 14) Catherine's Gate
- 15) Weavers' Bastion
- 16) First Romanian School
- 17) The White & Black Towers
- 18) Solomon's Rocks
- 19) St. Bartholomeu Church
- 20) Mount Tampa
- 21) Belvedere



# Social Programme & Tours

## Welcome Reception

19 October - ARO Palace. 19.00 Hours

## INA-Schaeffler KG Reception

20 October - International Congress Center. 20.00 Hours

## Congress Concert

21 October - Black Church. 19.30 Hours

Extraordinary 4000 Pipe Organ Concert by organist Ehar Schlandt.

## Gala Dinner

21 October - "Cetate" Restaurant. 20.30 h

## Optional Tours

**Panoramic Brasov Tour**  
20 October - ARO Palace. 14.00-16.00 Hours

On this tour you will be able to get acknowledged with famous touristic objectives like: The Black Church, The Old City hall, Catherine's Gate, Schei Gate, The First Romanian School, St. Bartholomeu Church, The White & Black Towers, The Weavers' Bastion, Solomon's Rocks, and many more...

The panoramic city view is best seen from Belvedere (on route to Poiana Brasov Resort) or Mount Tampa (accessible by foot or by teleferic).

Please check map, pages 28/29; info, page 29.



### Bran Castle, Predeal Tour

21 October - ARO Palace. 09.30 Hours

Founded between 1377 and 1383 by the Brasov inhabitants as a defence and customs point on the commercial route between Transylvania and Wallachia, *Bran Royal Castle* was extensively redecorated for Queen Maria between 1922 and 1929.

*Predeal Mountain Resort* is situated in Transylvania-Romania, 25 km from Brasov, 147km (100miles) from Bucharest. The resort altitude is 1033 m, being Romania's highest town. Nestled between Bucegi Mountains, Predeal is a good base for mountain trails hike and, in winter, for skiing down the Clabucet and Cioplea slopes.



### Prejmer & Rasnov

**Strongholds. 21 October - ARO Palace. 09.30 Hours**

*The Prejmer Fortified Evangelic Church.* The in 1240 founded church, strengthened by fortification walls around its structure in the 15th-16th centuries, preserves one of the oldest Christian altars in Transylvania.

*The Peasants' Fortification of Rasnov* was strategically build on a hill above the settlement, in a number of stages in between the 14<sup>th</sup> and 17<sup>th</sup> centuries, guarding an 11<sup>th</sup>-12<sup>th</sup> century Orthodox Church.



**Sinaia Tour 22 October - ARO Palace. 09.30 h**

Situated at 125 km distance from the country's capital, Sinaia is a town-resort endowed with all the necessary facilities for a very pleasant pastime.

Located in Sinaia (44 km from Brasov), *Peles Castle* is one of Romania's most important museums in the country since it was the final resting place for several Romanian monarchs including King Carol I, who died here in 1914.

The location for the castle was chosen by the German prince Carol I de Hohenzollern, who was to become a king and it draws its name from the neighboring brooks which passes through the courtyard.



**Sighisoara Tour - Medieval Citadel 22 October - ARO Palace. 09.30 h**

Sighisoara is without any doubt the best preserved strengthened city in Transylvania, with a beautiful and authentic medieval architecture. It is one of the last medieval towns still inhabited in Europe.

The most famous tower of Sighisoara, which actually became a bench mark of the city, is the *Tower of Clock*, so known under the name of the Tower of the Council, because it functioned like such between the 14th-16th centuries.



### Bucovina Monasteries Tour

23-25 October - ARO Palace. 09.30 Hours

The "painted" monasteries are the major Moldavian attraction, because of the vivid frescoes on their churches. These depict Biblical and other scenes, designed in sequences almost like strip cartoons to excite the imagination of the local people and so educate them in the Orthodox religion.

*VORONET Monastery* is considered the "Sistine Chapel of the East", due to the magnificent frescoes on the western wall representing the "Last Judgment". "Voronet Blue" has been added to the art lexicon alongside colours like "Titian Red" or "Veronese Green" by specialists who consider it unique.



**In your attention:** The optional tours are viable only for groups larger than 15 people.