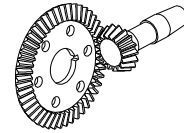




INTERNATIONAL CONFERENCE OF MECHANICAL ENGINEERING  
ICOME 2013 : 16<sup>th</sup> – 17<sup>th</sup> of May 2013, Craiova - Romania

ICOME 2013

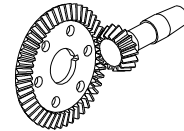
UNIVERSITY OF CRAIOVA - FACULTY OF MECHANICS



## Plenary session – Invited speakers

THURSDAY, May 16		Blue hall – Central building
Honoris Causa Ceremony – Prof. Ernst Von Lavante		
10 <sup>00</sup> – 11 <sup>30</sup>	NUMERICAL METHODS APPLIED TO FLUID FLOW METERING	Prof. Ernst Von Lavante University Duisburg-Essen, Germany

THURSDAY, May 16		Blue hall – Central building
Invited Speakers		
12 <sup>00</sup> – 12 <sup>20</sup>	OPEN CEREMONY	
12 <sup>20</sup> – 12 <sup>40</sup>	MESSAGE FROM FORD COMPANY, ROMANIA	Jan GIJSEN, President, FORD Romania
12 <sup>40</sup> -13 <sup>00</sup>	SC POPECI UTILAJ GREU SA, STRATEGIC PARTNER FOR UNIVERSITY OF CRAIOVA	Ing. Constantin POPECI, Director General SC POPECI UTILAJ GREU SA
13 <sup>00</sup> – 13 <sup>20</sup>	FUTURE R&D ON MECHANICAL SYSTEMS FOR SUSTAINABLE ENERGY	Prof. Ion VIȘA Transilvania University Brasov, Romania
13 <sup>20</sup> – 13 <sup>40</sup>	PROGRESSES IN POWDER METALURGY AT FACULTY OF MECHANICS	Prof. Mihail MANGRA, University of Craiova
13 <sup>40</sup> - 14 <sup>00</sup>	TOTAL INTEGRATED ENGINEERING SYSTEMS SOLUTIONS	Ing. Constantin CIOLOFAN Director General INAS SA



**Scientific papers schedule**  
**Section: Modeling and Simulation in Mechanical Engineering**

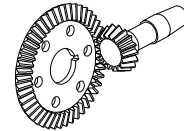
THURSDAY, May 16, 16 <sup>00</sup> – 17 <sup>45</sup>		
University's House – EMINESCU Salon		
<b>Chair:</b> Professor, Ernst Von Lavante, Duisburg-Essen, Germany <b>Co-chair:</b> Professor, Daniela Tarnita University of Craiova <b>Secretary:</b> Assistant Copilusi Cristian, University of Craiova		
16 <sup>00</sup> – 16 <sup>15</sup>	MODELING AND SIMULATION OF SPATIAL MECHANISMS USING A CAD/CAM/CAE APPLICATION	TEMPEA Iosif, MILOSTEANU (BRĂNICĂ) Diana-Nicoleta, NEACSA Marin
16 <sup>15</sup> – 16 <sup>30</sup>	KINEMATIC AND CONSTRUCTIVE MODELING OF SOME MONO-CONTOUR PARALLEL MECHANISMS	TEMPEA Iosif, BRĂNICĂ (MILOSTEANU) Diana-Nicoleta, LIVADARIU Adriana-Madalina
16 <sup>30</sup> – 16 <sup>45</sup>	A COMPARISON BETWEEN THE KINEMATICS OF THE HUMAN UPPER LIMB AND AN ARTIFICIAL HAND-ARM SYSTEM	BERCEANU Cosmin, TARNIȚĂ Daniela
16 <sup>45</sup> – 17 <sup>00</sup>	VIRTUAL SIMULATION OF THE HEALTHY AND OSTEOARTHRITIC KNEE JOINT MODELS	CATANA Marius, TARNITA Daniela
17 <sup>00</sup> – 17 <sup>15</sup>	ELASTODYNAMIC ANALYSIS OF A BEAM PUMPING UNIT MECHANISM	DUMITRU Nicolae, CRACIUNOIU Nicolae, MALCIU Raluca, PLOSCARU Nicolae
17 <sup>15</sup> – 17 <sup>30</sup>	CONSIDERATIONS REGARDING THE PRIME INTEGRALS OF THE SOLID-RIGID WITH FIXED POINT MOVEMENT	BOLCU Dumitru, STĂNESCU Marius Marinel, MIRIȚOIU Cosmin Mihai
17 <sup>30</sup> – 17 <sup>45</sup>	HUMAN GAIT PHASES STUDY AND THEIR INFLUENCE ON A LOW-COST EXOSKELETON DESIGN	COPILUSI Cristian, CECCARELLI Marco, CARBONE Giuseppe



INTERNATIONAL CONFERENCE OF MECHANICAL ENGINEERING  
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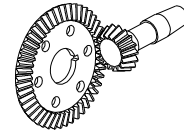
UNIVERSITY OF CRAIOVA - FACULTY OF MECHANICS



## Scientific papers schedule

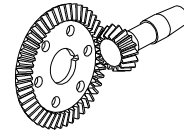
### Section: Modeling and Simulation in Mechanical Engineering

THURSDAY, May 16, 18 <sup>15</sup> – 19 <sup>30</sup>		
University's House – EMINESCU Salon		
	<b>Chair:</b> Professor <b>Tempea Iosif</b> , Politehnica University Bucharest <b>Co-chair:</b> Professor <b>Bolcu Dumitru</b> , University of Craiova <b>Secretary:</b> Assistant <b>Copilusi Cristian</b> , University of Craiova	
18 <sup>15</sup> – 18 <sup>30</sup>	KINEMATICS SIMULATION OF A MECHANISM FOR HUMAN LEG MOTION ASSISTANCE	GEONEA Ionut, CECCARELLI, Marco DUMITRU Nicolae COPILUȘI Cristian
18 <sup>30</sup> – 18 <sup>45</sup>	THREE NEW DESIGNS OF TIBIA NAILS WHICH ELIMINATE ORTHOPEDIC SCREWS	POPA Dragos-Laurentiu, BUCIU Gabriel, GRECU Dan, GHERGHINA George, TUTUNEA Dragos
18 <sup>45</sup> – 19 <sup>00</sup>	ON BERWALD LINEAR CONNECTIONS ON AFFINE BUNDLES	POPESCU Marcela, POPESCU Paul
19 <sup>00</sup> – 19 <sup>15</sup>	DESIGN AND FINITE ELEMENT ANALYSIS OF CONNECTING ROD USING SOLIDWORKS SOFTWARE	TUTUNEA Dragos, BICA Marin, DIMA Alexandru
19 <sup>15</sup> – 19 <sup>30</sup>	THERMAL ANALYSIS OF THE ENGINE PISTON MADE OF ALUMINUM ALLOYS	TUTUNEA Dragos, GHERGHINA George, POPA Dragos Laurentiu



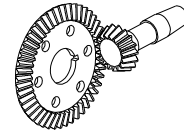
**Scientific papers schedule**  
**Section: Modeling and Simulation in Mechanical Engineering**

FRIDAY, May 17, 2013 10 <sup>00</sup> – 11 <sup>30</sup>		
University's House – EMINESCU Salon		
<b>Chair:</b> Assoc. Professor, <b>Adrian Sorin Rosca</b> University of Craiova <b>Co-chair:</b> Assoc. Professor, <b>Mihai Talu</b> , University of Craiova <b>Secretary:</b> Assistant <b>Ionut Geonea</b> University of Craiova		
10 <sup>00</sup> – 10 <sup>15</sup>	THE INFLUENCE OF THE MATERIAL ON THE FATIGUE STRENGTH FOR THE PRIMARY SHAFT OF A GEARBOX WITH THREE AXLES	CONSTANTINESCU Augustin, NEAGOE Dumitru, SIMNICEANU Loreta, TROTEA Mario
10 <sup>15</sup> – 10 <sup>30</sup>	THE COMPARATIVE STUDY BETWEEN THE COMPUTATIONAL SIMULATION USING THE FINITE DIFFERENCES METHODS AND THOSE USING THE INTEGRAL TRANSFORMS	CATANEANU Adina, BAGNARU Dan, CATANEANU Mihnea
10 <sup>30</sup> – 10 <sup>45</sup>	APPLICATIONS OF INTEGRAL TRANSFORMS IN THE COMPUTATIONAL ANALYSIS OF THE MECHANICAL SYSTEMS VIBRATIONS	CATANEANU Adina, CATANEANU Mihnea, BAGNARU Dan
10 <sup>45</sup> – 11 <sup>00</sup>	INFLUENCE OF IMAGE PROCESSING ON THE MEASUREMENT OF THE HUMAN RETINAL MICROVASCULAR FRACTAL DIMENSION	ȚĂLU Ștefan, ȚĂLU Mihai
11 <sup>00</sup> – 11 <sup>15</sup>	MATLAB DYNAMICS OF A FREE LINK WITH ELASTIC IMPACT	RAGAN Joseph, MARGHITU Dan
11 <sup>15</sup> – 11 <sup>30</sup>	3-DOF FORCE SENSING MICRO-FORCEPS FOR VITREORETINAL SURGERY	GONENC Berk, IORDACHITA Iulian



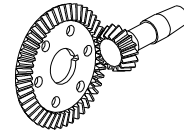
**Scientific papers schedule**  
**Section: Modeling and Simulation in Mechanical Engineering**

FRIDAY, May 17, 2013 12 <sup>00</sup> – 13 <sup>30</sup>		
University's House – EMINESCU Salon		
<b>Chair:</b> Assoc. Professor Craciunoiu Nicolae, University of Craiova <b>Co-chair:</b> Professor Dumitru Nicolae, University of Craiova <b>Secretary:</b> Assistant Ionut Geonea, University of Craiova		
12 <sup>00</sup> – 12 <sup>15</sup>	EXPERIMENTAL INVESTIGATION OF THE 3D SURFACE ROUGHNESS OF UNWORN HYDROGEL CONTACT LENSES	ȚĂLU Mihai ȚĂLU Ștefan
12 <sup>15</sup> – 12 <sup>30</sup>	VIBRATION ANALYSIS BY COMPUTATIONAL METHODS FOR THE LINEAR-ELASTIC KINEMATIC ELEMENTS	ROMANESCU Alina, VINTILA Daniela, GRIGORIE Laura, IONESCU Adriana, NEGRU Mihai
12 <sup>30</sup> – 12 <sup>45</sup>	MODELING AND EXPERIMENTAL RESULTS ON THE PALETTE SUBASSEMBLY	CRACIUNOIU Nicolae, DUMITRU Nicolae, SEMENESCU Daniel, MANEA, I.
12 <sup>45</sup> – 13 <sup>00</sup>	ADVANCED FLEXIBILITY INSIDE AUTODESK INVENTOR	ROȘCA Adrian Sorin
13 <sup>00</sup> – 13 <sup>15</sup>	CALCULUS OF THE MECHANICAL STRENGTH OF THICK WALL PIPES TO HYDRAULIC HAMMER	RADULESCU Mircea, ROSCA Valcu, MIRITOIU Cosmin
13 <sup>15</sup> – 13 <sup>30</sup>	CALCULUS OF PULSATIONS IN HYDROSTATIC MACHINES	RADULESCU Mircea, STEFANESCU Cosmin



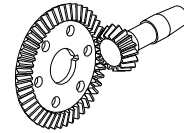
**Scientific papers schedule**  
**Section: Applied Mechanics and Mechatronic Systems**

THURSDAY, May 16, 16 <sup>00</sup> – 17 <sup>45</sup>		
University's House ROMANESCU Salon		
<b>Chair: Professor Ocnărescu Constantin, Politehnica University Bucharest</b> <b>Co-chair: Professor Daniela Vintila, University of Craiova</b> <b>Secretary: Assistant Andrei Nanu, University of Craiova</b>		
16 <sup>00</sup> – 16 <sup>15</sup>	ON THE IDENTIFICATION OF NONLINEAR BOUNDARY CONDITIONS BY USING THE CONCEPT OF THE INTERFERENCE DISTANCE	BRIȘAN Cornel, TEODORESCU Petre, DUMITRIU Dan, MOȘNEGUȚU Valerica
16 <sup>15</sup> – 16 <sup>30</sup>	ON THE SOMMERFELD EFFECT WITH APPLICATION TO MECHANICS	MUNTEANU Ligia, SIRETEANU Tudor, BRISAN Cornel, CHIROIU Veturia
16 <sup>30</sup> – 16 <sup>45</sup>	ON THE SQUEAKY KNEE	MOȘNEGUȚU Valerica, DONESCU Ștefania, IOAN Rodica, CHIROIU Veturia
16 <sup>45</sup> – 17 <sup>00</sup>	KINEMATIC ANALYSIS OF A PARALLEL MANIPULATOR	OCNĂRESCU Constantin, SIMIONESCU Ion, UNGUREANU Liviu
17 <sup>00</sup> – 17 <sup>15</sup>	COMPLEX BRAKING MECHANISMS OF THE 2-AXLE BOGIE FROM PASSENGER WAGONS	ANTONESCU Păun, ȘÎRBULESCU Mihai, ANTONESCU Ovidiu
17 <sup>15</sup> – 17 <sup>30</sup>	STRUCTURE, GEOMETRY AND STATICS OF A COACH UNFOLDING MECHANISM	ANTONESCU Ovidiu, STRIMBEANU Margareta
17 <sup>30</sup> – 17 <sup>45</sup>	STRUCTURE OF THE MECHANISMS USED AS HANDBRAKE TO WAGONS AND LOCOMOTIV	BARBU Ion, GEONEA Ionut, ANTONESCU Păun



**Scientific papers schedule**  
**Section: Applied Mechanics and Mechatronic Systems**

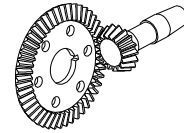
THURSDAY, May 16, 18 <sup>15</sup> – 19 <sup>30</sup>		
University's House – ROMANESCU Salon		
<b>Chair: Professor Paun Antonescu, Politehnica University Bucharest</b> <b>Co-chair: Professor, Nanu Gheorghe, University of Craiova</b> <b>Secretary: Assistant Geonea Ionut, University of Craiova</b>		
18 <sup>15</sup> – 18 <sup>30</sup>	DUAL ADJUSTMENT VARIABLE VALVE LIFT MECHANISM	MIHALCEA Stelian, PANDREA Nicolae
18 <sup>30</sup> – 18 <sup>45</sup>	MATHEMATICAL MODEL FOR STUDYING THE EFFORTS IN MECHANISMS WITH CARDAN JOINT WITH TECHNICAL DEVIATIONS	BULAC Ion, PANDREA Nicolae
18 <sup>45</sup> – 19 <sup>00</sup>	CALCULATION ALGORITHM OF EFFORTS FOR THE MECHANISM WITH CARDAN JOINT WITH TECHNICAL DEVIATIONS	BULAC Ion
19 <sup>00</sup> – 19 <sup>15</sup>	THE POWER SPECTRAL DENSITY OF RESPONSE FOR N RANDOM EXCITATIONS OF A NON-LINEAR OSCILLATOR WITH NON-LINEAR DAMPING CHARACTERISTIC IN THE FLUID MEDIUM	STAN Petre, STAN Marinică
19 <sup>15</sup> – 19 <sup>30</sup>	THE POWER SPECTRAL DENSITY OF THE RESPONSE FOR DUFFING OSCILLATOR WITH NON-LINEAR ELASTIC CHARACTERISTIC	STAN Marinică, STAN Petre



**Scientific papers schedule**  
**Section: Applied Mechanics and Mechatronic Systems**

FRIDAY, May 17, 2013 10 <sup>00</sup> – 11 <sup>30</sup>		
University's House – ROMANESCU Salon		
<b>Chair: Professor Rosca Valcu</b> <b>Co-chair: Professor Ilincioiu Dan</b> <b>Secretary: Assistant Romanescu Alina</b>		
10 <sup>00</sup> – 10 <sup>15</sup>	EXTENTION OF THE TRIBOMODEL CONCEPT IN STUDY OF THE LOW CYCLE FATIGUE PROCESS	MĂCUȚĂ Silviu
10 <sup>15</sup> – 10 <sup>30</sup>	STUDY UPON THE DURABILITY OF STEEL R520 UPON THE TEMPERATURE TO AN ECCENTRIC AXIAL SOLICITATION WITH ASYMMETRY COEFFICIENT R0.5	ROȘCA Vâlcu, GEONEA Ionuț, ROMANESCU Alina, MIRIȚOIU Cosmin
10 <sup>30</sup> – 10 <sup>45</sup>	EMPIRIC MODELS FOR STUDY THE CRACK INCREASE SPEED IN STEEL R520	ROȘCA Vâlcu, MIRIȚOIU Cosmin, GEONEA Ionuț, ROMANESCU Alina
10 <sup>45</sup> – 11 <sup>00</sup>	THE RESULTS CHECKING OF A DEVICE USED TO BEND MECHANICAL ELEMENTS. PART I: A FINITE ELEMENT APPROACH	ROȘU Cătălin, MIRIȚOIU Cosmin STANIMIR Alexandru, VÎLCU Roșca, ILINCIOIU Dan
11 <sup>00</sup> – 11 <sup>15</sup>	THE RESULTS CHECKING OF A DEVICE USED TO BEND MECHANICAL ELEMENTS. PART II: AN ANALYTICAL APPROACH	ROȘU Cătălin, MIRIȚOIU Cosmin Mihai, ILINCIOIU Dan, ROȘCA Vîlcu, STANIMIR Alexandru
11 <sup>15</sup> – 11 <sup>30</sup>	SECTION GEOMETRY OF STRENGTH PARTS	MARIN Mihai, MIRIȚOIU Cosmin, ILINCIOIU Dan

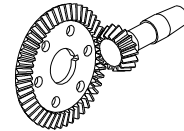




## Scientific papers schedule

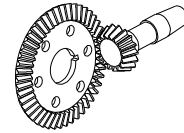
### Section: Applied Mechanics and Mechatronic Systems

FRIDAY, May 17, 2013 12 <sup>00</sup> – 13 <sup>30</sup>		
University's House – ROMANESCU Salon		
<b>Chair:</b> Professor Ilincioiu Dan <b>Co-chair:</b> Professor Rosca Valcu <b>Secretary:</b> Assistant Romanescu Alina		
12 <sup>00</sup> – 12 <sup>15</sup>	OPERATING ENVIRONMENT FOR A POLY-ARTICULATE ROBOTIC ARM	DUMITRU Violeta Cristina
12 <sup>15</sup> – 12 <sup>30</sup>	CONSIDERATIONS ON THE DYNAMICS OF THE MATERIAL POINT ON A LINEAR ELASTIC PLANE PLATE UNDERGOING PLANE MOTION	NANU Gheorghe, NANU Andrei Gheorghe
12 <sup>30</sup> – 12 <sup>45</sup>	CONSIDERATIONS ON SOLVING the MATHEMATICAL MODELS OF LONGITUDINAL AND TRANSVERSE VIBRATIONS OF A KINEMATIC ELEMENT OF LINEAR ELASTIC STRAIGHT BEAM TYPE UNDERGOING PLANE MOTION	NANU Gheorghe, NANU Andrei Gheorghe
12 <sup>45</sup> – 13 <sup>00</sup>	THE DETERMINATION OF THE MATHEMATICAL MODEL FOR THE COLLISION OF A RIGID BODY	BOGDAN Mihaela-Liana, POPA Dragos Laurentiu
13 <sup>00</sup> – 13 <sup>15</sup>	ELEMENTS OF DYNAMIC ANALYSIS FOR RECTILINIAR SHAFTS	VINTILĂ Daniela, GRIGORIE Laura, ROMANESCU Alina, IONESCU Adriana, NEGRU Mihai
13 <sup>15</sup> – 13 <sup>30</sup>	CONSIDERATIONS ABOUT THE INFLUENCE OF THE SHOCKS On THE KINETO-STATICS OF THE SHAPING	BOGDAN Mihaela-Liana, SIMNICEANU Loreta



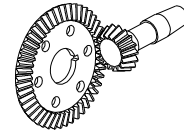
## Scientific papers schedule Section: Automotives and tractors

THURSDAY, May 16, 16 <sup>00</sup> – 17 <sup>45</sup>		
University's House PLOPSOR Salon		
<b>Chair:</b> Professor Bica Marin <b>Co-chair:</b> Professor Gherghina George <b>Secretary:</b> Assistant Trotea Mario		
16 <sup>00</sup> – 16 <sup>15</sup>	CONSIDERATIONS ON EXPERIMENTAL MEASUREMENTS FOR A RACK AND PINION STEERING SYSTEM	MARINESCU Gabriel Cătălin, DUMITRU Nicolae, DUMITRACHE Silviu Ionuț, OȚĂT Oana Victoria
16 <sup>15</sup> – 16 <sup>30</sup>	STEERING AND FRONT SUSPENSION DYNAMIC SIMULATION USING THE ADAMS/CAR SOFTWARE.	MARINESCU Gabriel Cătălin, DUMITRU Nicolae, OȚĂT Oana Victoria, OȚĂT Victor
16 <sup>30</sup> – 16 <sup>45</sup>	RESEARCHES ON THE POSSIBILITY TO REDUCE THE AIR POLLUTION THROUGH THE EMISSION REGULATORY INSTRUMENTS	BICA Marin, STOICAN Marius, TUTUNEA Dragos, DIMA Alexandru, SOFRONIE Sorin
16 <sup>45</sup> – 17 <sup>00</sup>	A REVIEW OF CATALYTIC CONVERTERS USED IN AUTOMOTIVE INDUSTRY	BICA Marin, STOICAN Marius, TUTUNEA Dragos, DIMA Alexandru, SOFRONIE Sorin
17 <sup>00</sup> – 17 <sup>15</sup>	MECHATRONICS ELEMENTS USED FOR LPG MOTOR VEHICLES	GHERGHINA George, TUTUNEA Dragos, LAMBRACHE Nicolas
17 <sup>15</sup> – 17 <sup>30</sup>	METHODS OF EVALUATION OF NO <sub>x</sub> EMISSIONS AT THERMAL POWER PLANTS	BICĂ Marin, TUDOR Viorel, CERNĂIANU Corina, POPA Alina
17 <sup>30</sup> – 17 <sup>45</sup>	TECHNICAL SOLUTIONS FOR THE MODERNIZATION OF THE BOILERS OF 510 T/H OF CTE	BICĂ Marin, TUDOR Viorel, CERNĂIANU Corina, POPA Alina



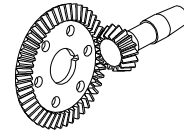
**Scientific papers schedule**  
**Section: Automotives and tractors**

THURSDAY, May 16, 18 <sup>15</sup> – 19 <sup>30</sup>		
University's House – PLOPSOR Salon		
<b>Chair: Professor Preda Ion</b> <b>Co-chair: Professor Ciolan Gheorghe</b> <b>Secretary: Assistant Trotea Mario</b>		
18 <sup>15</sup> – 18 <sup>30</sup>	STABILITY ANALYSIS OF A CAR MOVING WITH A SIMPLIFIED MODEL	SIMNICEANU Loreta, NEAGOE Dumitru, BOGDAN Mihaela, TROTEA Mario
18 <sup>30</sup> – 18 <sup>45</sup>	STARTING PERFORMANCES CALCULATIONS PARTICULARITIES OF CVT-EQUIPPED VEHICLES	PREDA Ion, CIOLAN Gheorghe
18 <sup>45</sup> – 19 <sup>00</sup>	A STUDY ABOUT THE INFLUENCE OF THE COMBUSTION CHAMBER ARCHITECTURE ON THE ENGINE PERFORMANCES USING A VIRTUAL DESIGN PROGRAM	DIMA Alexandru
19 <sup>00</sup> – 19 <sup>15</sup>	THE INFLUENCE OF LIGNITE QUALITY OF ROVINARI BASIN TO THE FORMATION OF POLLUANTS	FOANENE Adriana, IANCU Constantin, SOFRONIE Sorin
19 <sup>15</sup> – 19 <sup>30</sup>	THE INFLUENCE OF GRINDING FINESSE OF COAL ON THE COMBUSTION PROCESS	FOANENE Adriana, IANCU Constantin, SOFRONIE Sorin



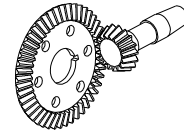
**Scientific papers schedule**  
**Section: Automotives and tractors**

FRIDAY, May 17, 2013 10 <sup>00</sup> – 11 <sup>30</sup>		
University's House – PLOPSOR Salon		
<b>Chair: Professor Otat Victor</b> <b>Co-chair: Professor Neagoie Dumitru</b> <b>Secretary: Assistant Buculei Mihaela</b>		
10 <sup>00</sup> – 10 <sup>15</sup>	THE DIFFERENCE OF TEMPERATURE CALCULATE FOR A HEAT EXCENGER	STĂNCUȚ Eugenia Adriana, CERNĂIANU Corina
10 <sup>15</sup> – 10 <sup>30</sup>	MEASURING THE TORQUE AND ROTATIONAL SPEED OF DRIVE SHAFTS FOR FRONT AND REAR AXLES OF A 4X4 TRACTOR	CONSTANTINESCU Augustin, TROTEA Mario, DUMITRU Ilie, POPA Gheorghe
10 <sup>30</sup> – 10 <sup>45</sup>	ELECTROMECHANICAL SYSTEM FOR QUALITY ASSESMENT OF SPUR GEAR	MARGINE Alexandru, DUMITRU Nicolae, GEONEA Ionut DRAGUT Emil
10 <sup>45</sup> – 11 <sup>00</sup>	STUDIES ON MULTIPLE NOZZLE INJECTORS IN BIODIESEL INJECTION.	PICIOREA George Daniel, BUCULEI Mihaela, NAGI Mihai , IORGA Dănilă, OȚĂT Victor
11 <sup>00</sup> -11 <sup>15</sup>	AUTOMOBILE RECYCLING - INTEGRATED LIABILITY OF THE MANUFACTURER COMPANIES	PANĂ Gabriela Monica, MARCU Carmen



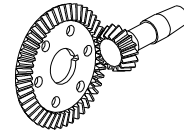
## Scientific papers schedule Section: Transportation and Traffic

THURSDAY, May 16, 16 <sup>00</sup> – 17 <sup>45</sup>		
<i>University's House IORGA Salon</i>		
<b>Chair: Professor Ispas Nicolae</b> <b>Co-chair: Professor Nastasoiu Mircea</b> <b>Secretary: Assistant Popa Gheorghe</b>		
16 <sup>00</sup> – 16 <sup>15</sup>	STUDIES CONCERNING THE PRELIMINARY DESIGN OF A CONTEXTUAL CAR-DRIVER INTERFACE	ISPAS Nicolae, COFARU Corneliu, NĂSTĂSOIU Mircea, PREDA Ana-Maria
16 <sup>15</sup> – 16 <sup>30</sup>	STUDIES REGARDING DISTRIBUTED ARCHITECTURES FOR ROAD TRAFFIC MANAGEMENT AT LOCAL LEVEL	OPRICA Theodor, VINĂTORU Matei, DUMITRU Ilie
16 <sup>30</sup> – 16 <sup>45</sup>	CONSIDERATIONS ON MODELING AND SIMULATION IN VEHICLES COLLISION	OȚĂT Oana Victoria, DUMITRU Nicolae, OȚĂT Victor, MARINESCU Gabriel Cătălin
16 <sup>45</sup> – 17 <sup>00</sup>	COMPARATIVE ANALYSIS FOR TWO TYPES OF FRAMES USED FOR IMPACT TESTING DEVICE	CIUNEL Stefanita, DUMITRU Nicolae, POPA Dragos-Laurentiu
17 <sup>00</sup> – 17 <sup>15</sup>	ON PUBLIC TRANSPORTATION CYCLES' DETERMINATION AND OPTIMIZATION IN CRAIOVA	DUMITRU, Ilie, OTAT Oana, OPRICA Theodor., OTAT Victor
17 <sup>15</sup> – 17 <sup>30</sup>	MOBILITY CREDIT PLATFORM FOR IMPROVING TRANSPORT EFFICIENCY IN CRAIOVA	MATEI Lucian, DUMITRU Ilie, VINATORU Matei, OPRICA Theodor
17 <sup>30</sup> – 17 <sup>45</sup>	ANALYSIS ON TESTING DISMANTLED AND UNDISMANTLED VEHICLE ENGINES	DUMITRU Ilie , OTAT Victor, OTAT Oana, POPA Gheorghe
THURSDAY, May 16, 18 <sup>15</sup> – 19 <sup>30</sup>		
<i>University's House – IORGA Salon</i>		
<b>Chair: Professor Otat Victor</b> <b>Co-chair: Professor Dumitru Ilie</b> <b>Secretary: Assistant Popa Gheorghe</b>		
18 <sup>15</sup> – 18 <sup>30</sup>	STUDIES REGARDING FREIGHT DISTRIBUTION IN CRAIOVA HISTORIC CENTER	OPRICA Theodor, DUMITRU Ilie, MATEI Lucian PLESEA Laurentiu
18 <sup>30</sup> – 18 <sup>45</sup>	CONSIDERATION ABOUT THE EVOLUTION OF TRAFFIC MANAGEMENT SYSTEMS	PLESEA Laurentiu, DUMITRU Ilie. OPRICA Theodor



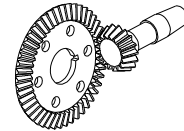
**Scientific papers schedule**  
**Section: Materials and Fabrication Systems**

THURSDAY, May 16, 16 <sup>00</sup> – 17 <sup>45</sup>		
University's House HILLARY Salon		
Chair: Professor Gheorghe Stefan Co-chair: Assoc. Professor Teisanu Cristina Secretary: Assistant Tutunea Dragos		
16 <sup>00</sup> – 16 <sup>15</sup>	RESEARCH ON SURFACE ROUGHNESS IN GRINDING THE CYLINDER LINERS IN AUTOMOTIVE CONSTRUCTION	ZAMFIRACHE Marius
16 <sup>15</sup> – 16 <sup>30</sup>	STUDIES CONCERNING THE TOOL WEAR OF THE SURFACES IN THE CASE OF ALLOYS STEEL TURNING	ZAMFIRACHE Marius
16 <sup>30</sup> – 16 <sup>45</sup>	OPTIMIZATION METHOD FOR THE DEVELOPING OF COPPER- BASED SINTERED ALLOYS USING FINITE ELEMENT METHOD AND MATHEMATICAL ALGORITHMS	GHEORGHE Stefan, TEISANU Cristina.
16 <sup>45</sup> – 17 <sup>00</sup>	RESEARCH ABOUT THE QUALITY OF BIOCOMPOSITES BASED ON HYDROXYAPATITE NANOPOWDERS OBTAINED BY TWO STEPS SINTERING (TSS) TECHNOLOGY	PASCU Cristina Ileana, GINGU Oana, ROTARU Petre
17 <sup>00</sup> – 17 <sup>15</sup>	RESEARCH TO IDENTIFY DEPENDENCY RELATIONS BETWEEN CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES OF ALUMINIUM ALLOY TYPE ALCU <sub>4</sub> MG <sub>1</sub>	GRIGORIE Laura, ROMANESCU Alina, VINTILĂ Daniela
17 <sup>15</sup> – 17 <sup>30</sup>	CONSIDERATION ABOUT INFLUENCE OF SINTERING PARAMETERS ON THE IRON BASED ANTIFRICTION ALLOYS MICROSTRUCTURE	TEISANU Cristina, MANGRA Mihail, GHEORGHE Stefan, CIUPITU Ion
17 <sup>30</sup> – 17 <sup>45</sup>	MP BICOMPONENT GUIDANCE BUSHING FOR MACHINE RETAINING DEVICES	DIDU Marin, DIDU Anca, RADU Stefan



**Scientific papers schedule**  
**Section: Management and Production Systems**

THURSDAY, May 16, 18 <sup>00</sup> – 19 <sup>30</sup>		
University's House HILARY Salon		
<b>Chair: Professor Dumitru Constantin</b> <b>Co-chair: Professor Tarata Daniela</b> <b>Secretary: Assistant Tutunea Dragos</b>		
18 <sup>00</sup> – 18 <sup>15</sup>	ASPECTS OF THE QUALITY CONTROL PROCESS IN PIRELLI COMPANY	CHERCIU Mirela, BUZATU Dumitru Stefan
18 <sup>15</sup> -18 <sup>30</sup>	THEORETICAL AND EXPERIMENTAL RESEARCH ON DRYING CEREAL SEEDS AND PLANTS IN TECHNICAL FLUIDISED-BED	CERNĂIANU Corina, STĂNCUȚ Eugenia
18 <sup>30</sup> – 18 <sup>40</sup>	STUDIES UPON AUTOMATED MANUFACTURING OF TUBES WITH THICK SUPERALUMINA CERAMICWALLS DESTINED FOR ELECTRONICS AND ELECTROTECHNIQUE INDUSTRIES	DUMITRU Constantin
18 <sup>40</sup> – 18 <sup>55</sup>	NUMERICAL SIMULATION OF POWDER COMPACTING PROCESSES THROUGH HYDROSTATICS EXTRUSION	DUMITRU Constantin
18 <sup>55</sup> – 19 <sup>05</sup>	AUTOMATISATION OF ADVANCE LONGITUDINALLY AND VERTICALLY TO A DEVICE FOR MICRO-FINISHING	CERNĂIANU Adrian
19 <sup>05</sup> – 19 <sup>20</sup>	ANALYSIS OF PROCESS PARAMETERS ON PROCESSING ON A DEVICE FOR MICRO-FINISHING	CERNĂIANU Adrian, DIMA Alexandru
19 <sup>20</sup> – 19 <sup>35</sup>	REGARDING THE ANALYSIS OF TENSION AND DEFORMATION STATE IN CASE OF PRODUCTS MANUFACTURED FROM RECOVERED SILICONE RUBBER	POPESCU Daniel, POPESCU R.C



## Scientific papers schedule Section: Civil Engineering

THURSDAY, May 16, 16 <sup>00</sup> – 17 <sup>45</sup>		
University's House PIRU Salon		
<b>Chair: Professor Bratu Polidor</b> <b>Co-chair: Assoc. Professor Negru Mihai</b> <b>Secretary: Assistant Ionescu Adriana</b>		
16 <sup>00</sup> – 16 <sup>15</sup>	A COMPARISON OF THE RESULTS OBTAINED IN DAISYLAB AND LABVIEW USING THE BASIC RECORDS COMBINATION METHOD FOR A CIRCULAR SYMMETRIC STRUCTURE	MURZEA Patricia, TRUȚĂ Alexandru
16 <sup>15</sup> – 16 <sup>30</sup>	SEISMIC ASSESSMENT OF REINFORCED CONCRETE FRAMES WITH MASONRY INFILLED PANELS	SAMOILĂ Diana
16 <sup>30</sup> – 16 <sup>45</sup>	ANALYSIS OF THE DYNAMIC RESPONSE AT SEISMICSHOCKS OF THE SILICONIC OIL DISSIPATIVE DEVICES, FUNCTION OF THEIR RHEOLOGICAL BEHAVIOR	BRATU Polidor
16 <sup>45</sup> – 17 <sup>00</sup>	PARAMETRIC BEHAVIOR OF THE ANTIVIBRATION ELASTOMERIC ISOLATORS, AT STAND TESTING, DEPENDING ON THE DYNAMIC INERTIAL EXCITATION	ALEXANDRU Carmen
17 <sup>00</sup> – 17 <sup>15</sup>	PRIMARY ENERGY CONTENT EMBEDDED IN CONFINED MASONRY	CODIȚĂ Alina
17 <sup>15</sup> – 17 <sup>30</sup>	COMPARATIVE STUDY ON THE ERGONOMICS OF REINFORCED MASONRY	CODIȚĂ Alina
17 <sup>30</sup> – 17 <sup>45</sup>	COMPARISON OF ANSYS AND ETABS RESULTS IN SEISMIC SIMULATION OF A BUILDING STRUCTURE	NEGRU Mihai, IONESCU Adriana, CALBUREANU Madalina, VINTILA Daniela
17 <sup>45</sup> – 18 <sup>00</sup>	WINKLER METHOD IN ANALYSIS OF A BUILDING STRUCTURE IN ANSYS PROGRAM	IONESCU Adriana, NEGRU Mihai, VINTILA Daniela, CALBUREANU Madalina