

Time Day	Wednesday, May 19, 2010	Thursday, May 20, 2010
7:00 - 7:15		
7:15 - 7:30		
7:30 - 7:45		
7:45 - 8:00		Breakfast, Hotel Restaurant
8:00 - 8:15		
8:15 - 8:30		
8:30 - 8:45		
8:45 - 9:00		Registration to ModTech2010 - Hotel Main Hall
9:00 - 9:15		
9:15 - 9:30		
9:30 - 9:45		
9:45 - 10:00		
10:00 - 10:15		
10:15 - 10:30		
10:30 - 10:45		
10:45 - 11:00		
11:00 - 11:15		<b>OPENING CEREMONY, WELCOME ADDRESSES</b> , Amphitheatre Hotel Euro-Vacanta
11:15 - 11:30		<u>President of Organizing Committee</u> Prof. Dumitru Nedelcu, Ph.D. - „Gheorghe Asachi” Technical University of Iasi, Romania
11:30 - 11:45		<u>Presidents</u> Prof. Laurentiu Slatineanu, Ph. D. – „Gheorghe Asachi” Technical University of Iasi, Romania Prof. Sergiu Mazuru, Ph. D. – Technical University of Moldova, Chisinau Research Prof. Olivera Milosevic, Ph.D. - Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Belgrade, Serbia
11:45 - 12:00		<b>PLENARY SESSION</b> Chairman, Prof. Dumitru Nedelcu, Ph.D. „Gheorghe Asachi” Technical University of Iasi, Romania
12:00 - 12:15		<b>Opportunities for the European Certification of the Integrated Design Engineer</b> Prof. George Draghici, Ph.D. – „Politehnica” University of Timisoara, Romania
12:15 - 12:30		<b>Learning about alternative fuel, GPL &amp; CNG</b> Manager Massimo Campari, Italy
12:30 - 12:45		<b>Agile Manufacturing. A conceptual framework</b> Prof. Petru Dusa, Ph.D. - „Gheorghe Asachi” Technical University of Iasi, Romania
12:45 - 13:00		
13:00 - 13:15		Coffee & Lunch break - Hotel Restaurant
13:15 - 13:30		
13:30 - 13:45		
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14:00 - 14:15		
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14:30 - 14:45		
14:45 - 15:00		
15:00 - 15:15		<b>Section 1</b> Hotel Conference Room
15:15 - 15:30		<b>Section 2</b> Hotel Amphitheatre
15:30 - 15:45		<b>Section 3</b> Hotel Amphitheatre
15:45 - 16:00		<b>Section 4</b> Hotel Conference Room
16:00 - 16:15		<b>Section 5</b> Hotel B Room
16:15 - 16:30		<b>Section 6</b> Hotel C Room
16:30 - 16:45		<b>Section 7</b> Hotel B Room
16:45 - 17:00		<b>Section 8</b> Hotel C Room
17:00 - 17:15	Registration to ModTech 2010	Coffee break
17:15 - 17:30		<b>Section 1</b> Micro and Nano Technology
17:30 - 17:45		<b>Section 2</b> Manufacturing & Workshop FP7
17:45 - 18:00		<b>Section 3</b> Automation and Flexible Technologies
18:00 - 18:15		<b>Section 4</b> CAD/CAM /CAE/CAX Work-shop: PDM/PLM
18:15 - 18:30		<b>Section 5</b> Materials, processes and innovative technologies Work-shops: New composite materials and processes & FP7
18:30 - 18:45		<b>Section 6</b> Project Management
18:45 - 19:00		<b>Section 7</b> Welding and Non-Conventional Technologies Work-shop: FP7
19:00 - 19:15		<b>Section 8</b> Forming Technologies Work-shop: New composite materials and processes
19:15 - 19:30		
19:30 - 19:45		
19:45 - 20:00		
20:00 - 20:15	Welcome reception	
20:15 - 20:30		
20:30 - 20:45		
20:45 - 21:00		Gala Dinner - Hotel Restaurant
21:00 - 21:15		
21:15 - 21:30		
21:30 - 21:45		
21:45 - 22:00		

Time/Day	Friday May 21, 2010								Saturday May 22, 2010
7:00 - 7:15									
7:15 - 7:30									
7:30 - 7:45									
7:45 - 8:00	Breakfast - Hotel Restaurant								Breakfast - Hotel Restaurant
8:00 - 8:15									
8:15 - 8:30									
8:30 - 8:45									
8:45 - 9:00	<b>Section 1</b> Hotel Conference Room	<b>Section 2</b> Hotel Amphitheatre	<b>Section 3</b> Hotel Amphitheatre	<b>Section 4</b> Hotel Conference Room	<b>Section 5</b> Hotel B Room	<b>Section 6</b> Hotel C Room	<b>Section 7</b> Hotel B Room	<b>Section 8</b> Hotel C Room	General Miting of MODTECH Iasi-Romania
9:00 - 9:15									
9:15 - 9:30									
9:30 - 9:45									
9:45 - 10:00									
10:00 - 10:15									Closing Ceremony
10:15 - 10:30									Scientific Awards Ceremony
10:30 - 10:45	Coffee break								
10:45 - 11:00									
11:00 - 11:15	<b>Section 1</b> Micro and Nano Technology	<b>Section 2</b> Manufacturing & Workshop FP7	<b>Section 3</b> Automation and Flexible Technologies	<b>Section 4</b> CAD/CAM /CAE/CAX Work-shop: PDM/PLM	<b>Section 5</b> Materials, processes and innovative technologies Work-shops: New composite materials and processes & FP7	<b>Section 6</b> Project Management	<b>Section 7</b> Welding and Non-Conventional Technologies Work-shop: FP7	<b>Section 8</b> Forming Technologies Work-shop: New composite materials and processes	
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18:00 - 18:15	Trip to Salina Targu Ocna								
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20:45 - 21:00	Dinner - Hotel Restaurant								
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**SECTION 1 & SECTION 4**  
**Micro and Nano Technologies & CAD/CAM/CAE/Cax**

**Hotel Conference Room**

**Section 1**

Chair: Prof. Loredana Santo, Ph.D.  
 Co-Chair: Lecturer Ciprian Ciofu, Ph.D.

**Section 4**

Chair: Prof. Antonio Goncalves Coelho, Ph.D.  
 Co-Chair: Prof. Gavril Musca, Ph.D.

<b>Thursday May 20</b>	<b>Papers &amp; Authors Section 1</b>
15 <sup>00</sup> -15 <sup>10</sup>	<b>Turn-milling process parameters optimisation using an artificial intelligence system</b> Adriana Albu, Eugen Pamintas, Felicia Banciu, Constantin Carausu, Vasile Ruset & George Belgiu
15 <sup>10</sup> -15 <sup>20</sup>	<b>Theoretical and experimental study of zr-2.5 nb candu using ndt technique</b> Zăgan Remus, Giurgiuca Valentin, Petculescu Petre
15 <sup>20</sup> -15 <sup>30</sup>	<b>Low temperature synthetic route of nanocrystalline boron carbide powders</b> Branko Matovic, Biljana Babic, Aleksandar Devecerski
15 <sup>30</sup> -15 <sup>40</sup>	<b>The influence of working parameters on the results of the heat treatment applied to some aluminum alloys</b> Maria Stoicănescu & Ana Vețeleanu
15 <sup>40</sup> -15 <sup>50</sup>	<b>The influence of the magnetic field on the mechanical properties of the aluminum alloys</b> Maria Stoicănescu, Mihaela Smeadă & Virgil Geamăn
15 <sup>50</sup> -16 <sup>00</sup>	<b>Nanostructured luminescence particles synthesized through aerosol route at intermediate temperature</b> V.Loipur, K.Marinkovic, L. Mancic, M.E. Rabanal, L.S.Gomez, J.M.Torralba & Olivera Milosevic
16 <sup>00</sup> -16 <sup>10</sup>	<b>Characterization of thermal spray coatings by their tribological properties</b> Mariana Axente & Virgil Geamăn
16 <sup>10</sup> -16 <sup>20</sup>	<b>Isostatic processing technology applied to duralumin alloys</b> Virgil Geamăn, Mariana Axente & Maria Stoicănescu
16 <sup>20</sup> -16 <sup>30</sup>	<b>Rapid prototyping – a method to improve the performances of design process</b> Daniel-Constantin Anghel & Adriana Gabriela Plaiasu
16 <sup>30</sup> -16 <sup>40</sup>	<b>On the factors affecting the specific cutting energy in face milling of aluminium alloys with wiper edge inserts</b> António Mourão, Laurențiu Slătineanu & António M. Gonçalves-Coelho
16 <sup>40</sup> -17 <sup>20</sup>	<b>Coffee break</b>
17 <sup>20</sup> -17 <sup>30</sup>	<b>Development of microorganisms in semi-synthetic cooling fluids used in metalworking</b> Diaconescu Alina Ioana

17 <sup>30</sup> -17 <sup>40</sup>	<b>Application of functional analysis to establish the process of nanostructured oxide film deposition</b> Adriana Gabriela Plaiasu & Daniel-Constantin Anghel
17 <sup>40</sup> -17 <sup>50</sup>	<b>Overview of stratified composite materials with metallic matrix</b> Dumitru Nedelcu, Olivera Milosevic, Romeu Chelariu, Costel Roman & Dan Cretu
17 <sup>50</sup> -18 <sup>00</sup>	<b>Studies concerning thermal conductivity for some copper base memory shape alloys</b> Achiței Dragoș Cristian, Vizureanu Petrică, Stanciu Sergiu, Ștefănică Roxana Gabriela & Cimpoeșu Nicanor
18 <sup>00</sup> -18 <sup>10</sup>	<b>Rapid prototyping techniques</b> Oprisan (Stoica) Rita-Vasilica, Matei (Todor) Ana-Viorela, Zara (Urs) Adriana & Novac Bogdan
18 <sup>10</sup> -18 <sup>20</sup>	<b>Bases of synthesis special functionally - oriented physical vapor deposition coating of workpieces of mechanical engineering</b> Mikhaylov A., Mikhaylova E., Nedashkovskiy A.
	<b>Papers &amp; Authors</b> <b>Section 4</b>
18 <sup>20</sup> -18 <sup>30</sup>	<b>Molded plastic part analysis, reasoning and optimisation using CAD-CAE systems</b> George Belgiu, Robert Mee, Vasile Ruset, Constantin Carausu & Adriana Albu
18 <sup>30</sup> -18 <sup>40</sup>	<b>A fuzzy logic algorithm on products early design stage</b> Cristian-Gheorghe Turc, Aurel Tulcan, Felicia Banciu & Eugen Pămîntaş
18 <sup>40</sup> -18 <sup>50</sup>	<b>Comparative study between axiomatic and systematic design models</b> Felicia Banciu, George Drăghici, Eugen Pămîntaş & Cristian Turc
18 <sup>50</sup> -19 <sup>00</sup>	<b>Modern methods of calculation and modeling of the cylindrical gears</b> Adrian Mihai Goanta
19 <sup>00</sup> -19 <sup>10</sup>	<b>Application of geometric modeling parameterized commands to generate a set of type compressor</b> Adrian Mihai Goanta
19 <sup>10</sup> -19 <sup>20</sup>	<b>CAD/CAM systems used for design and realization of the electrodes</b> Traian Buidoș, Iulian Stănășel & Mihai-Dan Groza
19 <sup>20</sup> -19 <sup>30</sup>	<b>Optimum shape design of rotor shaft</b> Dumitru Nicoara
<b>Friday</b> <b>May 21</b>	<b>Papers &amp; Authors</b> <b>Section 4</b>
9 <sup>00</sup> -9 <sup>10</sup>	<b>Kinematical method for rack-gear tool's profiling, in catia design environment</b> Silviu Berbinschi, Virgil Teodor & Nicolae Oancea
9 <sup>10</sup> -9 <sup>20</sup>	<b>Database processing programe aided computer</b> Dan Constantin Cretu & Gheorghe Cretu
9 <sup>20</sup> -9 <sup>30</sup>	<b>Current software used for resolve problems in environmental engineering</b> Bakos Mihaela Violeta
9 <sup>30</sup> -9 <sup>40</sup>	<b>Subscribing in the design of the some footwear moulds</b> Cornelia Luca Ionescu & Elena Chirilă
9 <sup>40</sup> -9 <sup>50</sup>	<b>Size verification and design analysis of pulley shaft at petrila mine</b> Dumitrescu Iosif, Itu Vilhelm & Trantea Ion

9 <sup>50</sup> -10 <sup>00</sup>	<b>Analysis of tube hydroforming process with profilated die using fem simulation</b> Viorel Paunoiu, Ovidiu Ciocan, Dumitru Nicoara
10 <sup>10</sup> -10 <sup>20</sup>	<b>New general calculus method for swept-back and front angle of wing</b> Gheorghita Toncu, Virgil Stanciu & Ionel Preda
10 <sup>20</sup> -10 <sup>30</sup>	<b>Research issues on forces in planetary differential mechanism</b> Iulian Filip, Teodor Daniel Mandru & Gavril Musca
10 <sup>30</sup> -11 <sup>00</sup>	Cofee break
11 <sup>00</sup> -11 <sup>10</sup>	<b>The importance of virtual arc software in programming and simulating a welding application</b> Viorel Cohal & Cristian Gidinceanu
11 <sup>10</sup> -11 <sup>20</sup>	<b>CAE system importance in cutting tools</b> Teodor Daniel Mindru, Iulian Filip & Dumitru Nedelcu
11 <sup>20</sup> -11 <sup>30</sup>	<b>Computer aided design of an modular milling gear hob</b> Ciprian Dumitru Ciofu, Lucian Tabacaru, Constantin Carausu & Mihai Tataru
11 <sup>30</sup> -11 <sup>40</sup>	<b>The influence of different factors on residual stresses distribution induced by milling</b> Tâmpu Nicolae Cătălin
11 <sup>40</sup> -11 <sup>50</sup>	<b>Kinematic modeling of the free human limbs, by using revolute joints</b> Liliana Dragan, Flavia Chira & Ioana Craciun
11 <sup>50</sup> -12 <sup>00</sup>	<b>Optimum scaling of the sls metal parts using finite element analysis</b> Pacurar Razvan, Balc Nicolae & Olimpia Ros
12 <sup>00</sup> -12 <sup>10</sup>	<b>The analysis by experiment and simulation of residual stress in case of cylindrical drawn parts</b> Brabie Gheorghe & Nanu Neculai
12 <sup>10</sup> -12 <sup>20</sup>	<b>Influence of residual stress distribution in sheet metal forming</b> Bogdan Chirita
12 <sup>20</sup> -12 <sup>30</sup>	<b>Comparison between numerical simulation and experimental measurement of cutting force during turning process of aluminium alloys</b> Vlad Daniel-Viorel, Fetecau Catalin, Teodor Virgil-Gabriel & Baroiu Nicusor
12 <sup>30</sup> -12 <sup>40</sup>	<b>Optimization of the exploitation of mechanic eccentric presses on the basis of a simulation model</b> Corneliu Burlacu & Ingrid Vicol
12 <sup>40</sup> -12 <sup>50</sup>	<b>Precessional wheel tooth profile generation in solid works with visual basic for application</b> Eugeniu Rusu
13 <sup>00</sup> -15 <sup>00</sup>	<b>Lunch Break</b>
15 <sup>00</sup> -16 <sup>40</sup>	Workshop PDM/PLM

**SECTION 2 & SECTION 3**  
**Manufacturing & Automation and Flexible Technologies**

**Hotel Amphitheatre**

**Section 2**

Chair: Prof. Adrian Mihai Goanta Ph.D.  
 Co-Chair: Lecturer Margareta Coteata, Ph.D.

**Section 3**

Chair: Aassoc.Prof. Alexei Toca, Ph.D.  
 Co-Chair: Prof. Octavian Pruteanu, Ph.D.

Thursday May 20	Papers & Authors Section 2
15 <sup>00</sup> -16 <sup>20</sup>	Workshop FP7
16 <sup>20</sup> -16 <sup>50</sup>	Coffee break
17 <sup>00</sup> -17 <sup>10</sup>	<b>Aspects concerning the dynamic stiffness of a medium sized lathe</b> Mihai Boca, Gheorghe Nagiț & Iolanda Manole
17 <sup>10</sup> -17 <sup>20</sup>	<b>Decision system based on fuzzy sets for aided design of technological processes</b> Iulian Stanasel, Florin Blaga & Voichita Hule
17 <sup>20</sup> -17 <sup>30</sup>	<b>The influence of technological factors upon the form accuracy surfaces of the cold plastic deformation bearing rings</b> Petre Leonte, Constantin Cărașu, Octavian Pruteanu & Lucian Tăbăcaru
17 <sup>30</sup> -17 <sup>40</sup>	<b>The influence of working parameters on precision by circular vibro-honing processing of pieces made of cast iron 250</b> Lucian Tabacaru, Dumitru Nedelcu, Octavian Pruteanu & Constantin Carausu
17 <sup>40</sup> -17 <sup>50</sup>	<b>Aspects of discrete events in manufacturing systems</b> Ciortea Elisabeta Mihaela
17 <sup>50</sup> -18 <sup>00</sup>	<b>New relation of the cutting forces for turning of the stainless steel x12crnit18.9</b> Ruxandra Balan, Aurelian Vlase & Bogdan Vlase
18 <sup>00</sup> -18 <sup>10</sup>	<b>A possible connection between cutting process stability and lyapunov exponent magnitude</b> Gabriel Frumușanu, Ionuț Constantin & Alexandru Epureanu
18 <sup>10</sup> -18 <sup>20</sup>	<b>Method for conical sharpening of multi-flute helical drill with curved cutting edge</b> Cătălin Fetecău, Virgil Teodor, Nicolae Dumitrașcu & Nicolae Oancea
18 <sup>20</sup> -18 <sup>30</sup>	<b>Some features of the application of physical vapor deposition coating on the centerline tool in fast-cutting steel</b> Al-Sudani Tarafa, Mikhaylov A., Mikhaylova E., Selivra S. & Larina N.
18 <sup>30</sup> -18 <sup>40</sup>	<b>Algorithms used for the designing of the heel counter stiffeners moulds</b> Cornelia Luca Ionescu & Elena Chirilă
18 <sup>40</sup> -18 <sup>50</sup>	<b>Experimental studies on tool wear in high speed drilling</b> Irina Grigoraș (Beșliu), Dumitru Amarandei, Laurențiu Slătineanu & Margareta Coteață
18 <sup>50</sup> -19 <sup>00</sup>	<b>Study concerning gears manufacturing using NC machine</b> Mihai Tataru, Ciprian Dumitru Ciofu & Dragos Paraschiv
19 <sup>00</sup> -19 <sup>10</sup>	<b>Contributions to the quality study of the parts made of malleable iron used for</b>

	<b>manufacturing crankshafts</b> Ilarion Banu & Daniel-Constantin Anghel
19 <sup>10</sup> -19 <sup>20</sup>	<b>The energy of ball mills` charge as a function of rotational speed</b> Mariana Adriana Prichici, Liliana Indrie & Sabina Gherghel
19 <sup>20</sup> -19 <sup>30</sup>	<b>Relationship between the surfaces' roughness and the precision of the technological system</b> Bogdan Vlase, Aurelian Vlase & Ruxandra Balan
<b>Friday May 21</b>	<b>Papers &amp; Authors Section 2</b>
9 <sup>00</sup> -9 <sup>10</sup>	<b>About the mutual influence of design and technological dimensional structures at creation of the optimum technological processes to machining</b> Alexei Toca
9 <sup>10</sup> -9 <sup>20</sup>	<b>Evaluating the influence on surface finishing parameters using fuzzy logic</b> Raluca Tanasa & Traian Gramescu
9 <sup>20</sup> -9 <sup>30</sup>	<b>Researches upon the industrial equipments availability, such as a base indicator of their reliability</b> Popa Ionut, Lupescu Octavian, Scurtu Ramona Popa & Popa Sorin
9 <sup>30</sup> -9 <sup>40</sup>	<b>Researches upon the technological equipment predictive maintenance through determinist models</b> Scurtu Popa Ramona, Lupescu Octavian, Popa Ionut, Sava Ovidiu & Holostencu George
9 <sup>40</sup> -9 <sup>50</sup>	<b>Some aspects regarding the application of the predictive maintenance procedure for paper industry</b> Ancuta Costea, Olimpia Ros & Csaba Gyenge
9 <sup>50</sup> -10 <sup>00</sup>	<b>The influence of working parameters on the roughness of external surfaces of shafts machined by honing</b> Octavian Pruteanu, Cristina Hatnean, Constantin Cărașu & Lucian Tăbăcaru
10 <sup>00</sup> -10 <sup>10</sup>	<b>Balancing-compensation system for the vertically moving elements of the machine tools with numerical control</b> Stan Gheorghe
10 <sup>10</sup> -10 <sup>20</sup>	<b>Optimizing the choice of the response times of the industrial robot servomechanisms in order to minimize the path error</b> Stan Gheorghe
10 <sup>20</sup> -10 <sup>30</sup>	<b>System reliability and optimization processing parameters for its accuracy of elements. First part</b> Sergiu Mazuru
10 <sup>30</sup> -11 <sup>00</sup>	Coffee break
11 <sup>00</sup> -11 <sup>10</sup>	<b>System reliability and optimization processing parameters for its accuracy of elements. Second part</b> Ion Bostan, Sergiu Mazuru & Maxim Vaculenco
	<b>Papers &amp; Authors Section 3</b>
11 <sup>10</sup> -11 <sup>20</sup>	<b>Design of linear drive systems to retrofit a Coordinate measuring machine</b> Aurel Tulcan, Daniel Stan, Cristian Turc, Cristian Cosma & Adrian Dume
11 <sup>20</sup> -11 <sup>30</sup>	<b>A main view on intelligent mechatronics systems For textile equipment</b> Lucian Constantin Hanganu & Barbu Dragan

11 <sup>30</sup> -11 <sup>40</sup>	<b>Bearings diagnosis with frequency spectrum envelope – a key factor to increase textile equipment quality</b> Barbu Drăgan & Lucian Constantin Hanganu
11 <sup>40</sup> -11 <sup>50</sup>	<b>Aspects regarding the fabrication process of a new fully sensorized artificial hand</b> Berceanu Cosmin, Tarnita Daniela
11 <sup>50</sup> -12 <sup>00</sup>	<b>Some possibilities for stern-tube bushes inner surfaces machining with dimensional adaptive control</b> Lucian Vasiliu, Alexandru Epureanu & Gabriel Frumusanu
12 <sup>00</sup> -12 <sup>10</sup>	<b>Particularities of the electric resistance furnace automatic adjustment</b> Elena Chirilă & Cornelia Luca
12 <sup>10</sup> -12 <sup>20</sup>	<b>Studying on the jet fuel quality for maximum aircraft efficiency</b> Virgil Stanciu, Dana-Cristina Toncu & Gheorghită Toncu
12 <sup>20</sup> -12 <sup>30</sup>	<b>Analyzing the capability of automatic Spreading and cutting</b> Irina- Adriana Vieriu& Petru Duşa
12 <sup>30</sup> -12 <sup>40</sup>	<b>Method and equipment for the mechanic eccentric presses diagnosis</b> Corneliu Burlacu & Oana Iordan
12 <sup>40</sup> -12 <sup>50</sup>	<b>Analysis of specific phenomena occurring during the operation of a closed hydraulic cylinder</b> Doru Călărăşu, Dan Scurtu & Bogdan Ciobanu
12 <sup>50</sup> -13 <sup>00</sup>	<b>Analysis of viscous friction on the blades Of a vertical axis aero-hydraulic turbine</b> Dan Scurtu, Doru Calarasu, Bogdan Ciobanu& Oreste Vascan
13 <sup>00</sup> -15 <sup>00</sup>	<b>Lunch break</b>
15 <sup>00</sup> -15 <sup>10</sup>	<b>Experimental study about spreading of total machine-available time</b> Eugen Pămîntaş & Felicia Veronica Banciu
15 <sup>10</sup> -15 <sup>20</sup>	<b>Ten steps to build a guide for an expert systems for metal cutting manufacturing</b> Eugen Pămîntaş, George Belgiu & Cristian Turc
15 <sup>20</sup> -15 <sup>30</sup>	<b>Experimental determination of the cutting speed in the case of the water jet processing of different materials</b> Eugen Herghelegiu
15 <sup>30</sup> -15 <sup>40</sup>	<b>Consideration on qualifications needs in the plastics and composites manufacturing branch</b> Daniel Stan, Tudor Iclanzan, Adrian Dume & Valentin Seiculescu
15 <sup>40</sup> -15 <sup>50</sup>	<b>The approximate galerkin's method in the vibrating mechatronic system's investigation</b> Andrzej Buchacz & Marek Płaczek
15 <sup>50</sup> -16 <sup>00</sup>	<b>Influence of working parameters on the deviation from circular shape of the outer toroidal surface superpolishing</b> Ionel Sarbu & Lucian Tabacaru
16 <sup>00</sup> -16 <sup>10</sup>	<b>Reconstruction and flattening of the surface shoe last</b> Drişcu Mariana
16 <sup>10</sup> -16 <sup>20</sup>	<b>Surface roughness and topography in adiabatic cutting process</b> Alexandru Epureanu, Viorel Vacarus, Catalina Maier, Vasile Marinescu& Ionut Constantin



**SECTION 5 & SECTION 7**

**Materials, processes and innovative technologies & Welding and Non-Conventional Technologies**

**Hotel B Room**

**Section 5**

Chair: Prof. Olivera Milosevic, Ph.D.  
 Co-Chair: Assoc. Prof. Laurentiu Ghenghea, Ph.D.

**Section 7**

Chair: Prof. Pavel Topala, Ph.D.  
 Co-Chair: Assoc. Prof. Viorel Cohal, Ph.D.

Thursday May 20	Papers & Authors Section 5
15 <sup>00</sup> -15 <sup>10</sup>	<b>Research on growing the competitiveness index Of spark ignition engines using ceramic materials</b> Ioan Radu Şugar & Lucian Adrian Butnar
15 <sup>10</sup> -15 <sup>20</sup>	<b>Technologies for recovering gold and very heavy metals from ores and alluvials</b> Petru N. Hreniuc & Gabriel Bădescu
15 <sup>20</sup> -15 <sup>30</sup>	<b>Digital microscope images processing used to measure bearings surface characteristics</b> Mihaela Baritz, Barbu Braun & Diana Cotoros
15 <sup>30</sup> -15 <sup>40</sup>	<b>Research concerning the injection of polymeric materials under electromagnetic field</b> Diana Murar, Aurelian Vlase, Doru Balota, Alexandru Patrascu
15 <sup>40</sup> -15 <sup>50</sup>	<b>Researches concerning micro injection moulding process with hot runners for polymeric material products</b> Catalina Bivolaru, Aurelian Vlase, Vlad Gheorghe, Bogdan Toader
15 <sup>50</sup> -16 <sup>00</sup>	<b>Analyses by image processing of surface quality of mobile skeletal dental prosthesis</b> Mihaela Baritz & Diana Cotoros
16 <sup>00</sup> -16 <sup>10</sup>	<b>Studies on the reduction of motor vehicles pollution By the use of the ceramic materials</b> Ioan Radu Şugar & Mihai Bănică
16 <sup>10</sup> -16 <sup>20</sup>	<b>Experimental determination of blast waves parameters generated by firing of large-caliber gun systems</b> Liviu-Cristian Matache, Teodora Zecheru, Adrian Rotariu & Tudor Cherecheş
16 <sup>20</sup> -16 <sup>30</sup>	<b>Logical schedule of activities within the automotive industry return non-compliant products</b> Marius Chirugu & Gianina Timofte
16 <sup>30</sup> -16 <sup>40</sup>	<b>Experimental research concerning the elimination of microbiological agents in water purification processes with uv radiation</b> Badea Cristinel, Remus Zăgan, Tăbăcaru Lucian, Nedelcu Dumitru
16 <sup>40</sup> -17 <sup>20</sup>	<b>Coffee break</b>
17 <sup>20</sup> -17 <sup>30</sup>	<b>Estimation of effect of transport mechanism and roller pair parameters on</b>

	<b>processing material's properties</b> Gayrat Bahadirov
17 <sup>30</sup> -17 <sup>40</sup>	<b>Contributions regarding the recycling of materials used in automobile construction</b> Amza Gheorghe, Garac Zlatko, Apostolescu Zoia, Ciucur Ionuț
17 <sup>40</sup> -17 <sup>50</sup>	<b>Experimental research on the advantages of using silver in the field of food packaging</b> Jeni Pralea, Elena Soltuz, Silviu Buraga
17 <sup>50</sup> -18 <sup>00</sup>	<b>Experimental study concerning the workpiece material heat diffusion in the end milling cutting</b> Vasile Avram
18 <sup>00</sup> -18 <sup>10</sup>	<b>The abrasive stones influence upon the running track roughness of the bearing rings</b> Popa Sorin, Paraschiv Dragos, Popa Ionut
18 <sup>10</sup> -18 <sup>20</sup>	<b>Interdisciplinary researches of the potential limits for the solar energy in solids on heating-melting range</b> Vizureanu Petrică, Samoilă Cornel, Achiței Dragoș Cristian, Perju Manuela Cristina, Ștefănică Roxana Gabriela, Cotfas Daniel
18 <sup>20</sup> -18 <sup>30</sup>	<b>On chemical and mechanical properties of aa7075 t651</b> Stefanica Roxana-Gabriela, Nejneru Carmen, Dima Adrian
18 <sup>30</sup> -18 <sup>40</sup>	<b>Tool flank wear measurement using a single photo</b> Francisco Santos, Manuel San Juan, Oscar Martín, Roberto Lopez, & Florin Negoescu
18 <sup>40</sup> -18 <sup>50</sup>	<b>A predictive model of cutting force in turning polytetrafluoretilene material using taguchi method</b> Munteanu Ana Veronica, Fetecau Catalin & Stan Felicia
	<b>Papers &amp; Authors</b> <b>Section 7</b>
18 <sup>50</sup> -19 <sup>00</sup>	<b>Decision system based on fuzzy sets for determining the technological parameters of the welding process</b> Florin Blaga, Ioan Lucaciu & Ioan Țarcă
19 <sup>00</sup> -19 <sup>10</sup>	<b>Production of resin coated sand shells by ir heating</b> Loredana Santo, Fabrizio Quadrini & Federica Trovalusci
19 <sup>10</sup> -19 <sup>20</sup>	<b>On attenuation properties of blast wave through perlite</b> Rotariu Adrian, Trana Eugen, Timplaru Florin, Matache Liviu, Badea Simona & Chereches Tudor
19 <sup>20</sup> -19 <sup>30</sup>	<b>The influence of the magnetic field on the process of modifying the surfaces micro-geometry metal and semiconductor by applying the electrical discharges in impulse</b> Topala Pavel, Rusnac Vladislav
<b>Friday</b> <b>May 21</b>	<b>Papers &amp; Authors</b> <b>Section 7</b>
9 <sup>00</sup> -10 <sup>00</sup>	<b>Workshop FP7</b>
10 <sup>00</sup> -10 <sup>10</sup>	<b>Transformations in the surfaces of tool-electrodes during surfaces layer formation by applying electric discharges in impulse</b> Topala Pavel, Pinzaru Natalia, Stoicev Petru
10 <sup>10</sup> -10 <sup>20</sup>	<b>Analysis of processes occurring on the tool and piece electrode surface during the formation of oxide pellicles by applying electrical discharges in impulse</b>

	Topala Pavel, Stoicev Petru, Ojegov Alexandr, Natalia Pinzaru, Monaico Eduard
<b>10<sup>20</sup>-10<sup>30</sup></b>	<b>Increasing the durability of glass moulding forms applying graphite pillicles</b> Topala Pavel, Mazuru Sergiu, Besliu Vitalie, Cosovschii Pavel, Stoicev Petru
<b>10<sup>30</sup>-10<sup>40</sup></b>	<b>Applications of microwaves in patrimony objects reconditioning</b> Mircea-Petru Ursu, Traian Buiduş
<b>10<sup>40</sup>-10<sup>50</sup></b>	<b>Photo reception in metal</b> Valeriy Domin, Valeriy Kovalenko, Illya Navka
<b>10<sup>50</sup>-11<sup>00</sup></b>	<b>Cnt's manufacturing based on welding technology</b> Dan Ghenghea
<b>11<sup>00</sup>-11<sup>10</sup></b>	<b>Machining methods based on the impact effects</b> Laurenţiu Slătineanu, Oana Dodun, Margareta Coteaţă, António M. Gonçalves-Coelho, Irina Beşliu and Nicolae Pop
<b>11<sup>10</sup>-11<sup>20</sup></b>	<b>Laser welding of aluminum</b> Viorel Cohal & Cristian Gîdinceanu
<b>11<sup>20</sup>-11<sup>30</sup></b>	<b>Researches regarding the enrichment with carbon on superficial layer at electrosark deposition</b> Alexandru Rădeanu, Valentin Lupu & Dumitru Uliuliuc
<b>11<sup>30</sup>-11<sup>50</sup></b>	<b>Coffe break</b>
<b>11<sup>50</sup>-12<sup>00</sup></b>	<b>Research of the anti corrosive coverings applied to parts made of the fe-c alloy</b> Vladimir GOIAN, Iurie CIOFU, Andrei CIOFU
<b>12<sup>00</sup>-12<sup>10</sup></b>	<b>Peculiarities of determining the values of the diffusion coefficient in supersaturated solutions</b> Iurie CIOFU, Andrei CIOFU
<b>12<sup>10</sup>-12<sup>20</sup></b>	<b>Modeling a system ultraacoustic used for welding materials used in clothing intelligent road</b> Amza Gheorghe, Popescu Dumitru Dan, Apostolescu Zoia
<b>12<sup>20</sup>-12<sup>30</sup></b>	<b>Contributions to the environmental impact of the process of welding in protective gas environment</b> Amza Gheorghe, Apostolescu Zoia, Rontescu Corneliu, Cicic Dumitru-Titi
<b>12<sup>30</sup>-12<sup>40</sup></b>	<b>Electrical discharge (edm) and machinability of metallic materials by electrical discharge</b> Uliuliuc Dumitru, Radeanu Alexandru & Boca Mihai
<b>12<sup>40</sup>-12<sup>50</sup></b>	<b>Research with ultrasonic investigation on aluminum bars using the pulse-echo method</b> Iustina Elena Rotman, Radu Adrian Baci Lupascu
<b>12<sup>50</sup>-13<sup>00</sup></b>	<b>Actions to improve the performances of the spiral jetmills</b> Ileana Fulga & Eugen Străjescu
<b>13<sup>00</sup>-13<sup>10</sup></b>	<b>Three dimensional complex mathematical model of the supersonic jet from the spiral jet mills</b> Ileana Fulga, Eugen Străjescu
<b>13<sup>10</sup>-13<sup>20</sup></b>	<b>Researches regarding the specific consumption of heat during the baking process of white and intermediary bread</b> Canja Cristina Maria
<b>13<sup>20</sup>-13<sup>30</sup></b>	<b>Chemical, physical and mechanical properties of thin layers achieved by vibrating electrode method</b> Perju Manuela Cristina, Neşneru Carmen, Găluşcă Dan Gelu, Stefanică Roxana

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	Gabriela
<b>13<sup>30</sup>-13<sup>40</sup></b>	<b>LPG gas tank optimised for cars</b> Peter Lorenz, Valentina Ignat, Stephan Zimmer & Alberg Anatolij
<b>13<sup>40</sup>-15<sup>00</sup></b>	<b>Lunch break</b>
<b>15<sup>00</sup>-16<sup>30</sup></b>	<b>Workshop - New composite materials and processes</b>
<b>16<sup>30</sup>-18<sup>00</sup></b>	<b>Workshop FP7</b>

**SECTION 6 & SECTION 8**  
**Project Management & Forming Technologies**

**Hotel C Room**

**Section 6**

Chair: Prof. Alexander Mikhaylov, Ph.D.  
 Co-Chair: Assoc. Prof. Constantin Carausu, Ph.D.

**Section 8**

Chair: Prof. Alexandru Epureanu, Ph.D.  
 Co-Chair: Assoc. Prof. George Belgiu, Ph.D.

Thursday May 20	Papers & Authors Section 6
15 <sup>00</sup> -15 <sup>10</sup>	<b>Evaluating the environmental impact of products Using the eco-indicators</b> Lucian Barsan, Anca Barsan
15 <sup>10</sup> -15 <sup>20</sup>	<b>Computing technics for studying human behavior in ergonomic working places</b> Mihaela Baritz & Diana Cotoros
15 <sup>20</sup> -15 <sup>30</sup>	<b>The application enterprise resurse planning (erp) in the management of the modern organization</b> Sava Ovidiu, Elisabeta Paula Luca & Carmen Dascalu
15 <sup>30</sup> -15 <sup>40</sup>	<b>The “industrial engineering” profile and competences</b> Daniel Stan, Aurel Tulcan & Cristian Cosma
15 <sup>40</sup> -15 <sup>50</sup>	<b>Water transport optimization on supply systems</b> Adina Simona Alexandrescu, Aurora Alexandrescu & Adrian Constantin Alexandrescu
15 <sup>50</sup> -16 <sup>00</sup>	<b>Researches for the implementation of product data management skills within engineering education</b> Vasile V. Merticaru, Gavril Muscă & Elena Muscă
16 <sup>00</sup> -16 <sup>10</sup>	<b>Aspects concerning knowledge management in case of electron beam process</b> Adriana Munteanu & Sanda Maria Ilii
16 <sup>10</sup> -16 <sup>20</sup>	<b>Project team – a critical succes factor To reach the excellence in project management</b> Romeo-Mihai Ciobanu
16 <sup>20</sup> -16 <sup>30</sup>	<b>Opportunities for the european certification of the integrated designer profession</b> George Drăghici, Anca Drăghici, Andreas Riel, Serge Tichkiewitch, Damian Grajewski & Richard Messnarz
16 <sup>30</sup> -16 <sup>40</sup>	<b>Experimental researchs on improving organization workplace at grinding machine</b> Gianina Timofte, Marius Chirugu & Dragos Paraschiv
16 <sup>40</sup> -17 <sup>20</sup>	<b>Coffee break</b>
17 <sup>20</sup> -17 <sup>30</sup>	<b>Industrial design the main engine of life quality</b> Magda Sficlea
17 <sup>30</sup> -17 <sup>40</sup>	<b>From design to metadesign</b>

	Monica Pop, Jeni Pralea & Magda Sficlea
17 <sup>40</sup> -17 <sup>50</sup>	<b>Exploring creativity in a research environment</b> Iuliana Laura Taranovschi, Petru Duşa, Gheorghe Nagît
17 <sup>50</sup> -18 <sup>00</sup>	<b>The house of quality and axiomatic design</b> Gabriela Neştian, Oana Dodun, Laurenţiu Slătineanu & António M. Gonçalves-Coelho
18 <sup>00</sup> -18 <sup>10</sup>	<b>Environmental legislation and management applied into a machine-tools manufacturing plant</b> Carmen Zaharia
18 <sup>10</sup> -18 <sup>20</sup>	<b>An environmental impact assessment applied for a unit of machine-tools manufacturing</b> Carmen Zaharia
18 <sup>20</sup> -18 <sup>30</sup>	<b>Cost evolution for the management of tools stock inside the internal logistic system</b> Camelia Lixandru, Traian Grămescu, Roberto Teti, Giuseppe Giorleo
18 <sup>30</sup> -18 <sup>40</sup>	<b>Creating a functional model of jaw crusher using the value analysis - parth i</b> Florin Chichernea
18 <sup>40</sup> -18 <sup>50</sup>	<b>Optimisation of the constructive solution of jaw crusher an iterative process in value analysis method - parth ii</b> Florin Chichernea
18 <sup>50</sup> -19 <sup>00</sup>	<b>Overview of production management on small and medium enterprises. Rfid technology</b> Lucio Martín Matarranz
19 <sup>00</sup> -19 <sup>10</sup>	<b>Gis in analysis of water systems for an area from baia mare city</b> Keller Iulius Eduard, Dohotar Vasile, Bădescu Gabriel & Bilaşco Ştefan
19 <sup>10</sup> -19 <sup>20</sup>	<b>Considerations for elaborating the cadastral documentation required for the registration of county road baia sprie – bârsana of maramures county into the land register</b> Ştefan Ovidiu, Bădescu Gabriel, Rădulescu Gh.M.T.
19 <sup>20</sup> -19 <sup>30</sup>	<b>Considerations on the possibilities of monitoring the convergence of underground mining works by ordinary topographic methods</b> Ştefan Ovidiu, Bădescu Gabriel, Rădulescu Gh.M.T.
<b>Friday May 21</b>	<b>Papers &amp; Authors Section 6</b>
9 <sup>00</sup> -9 <sup>10</sup>	<b>Need and importance of achieving the mining cadastre from cn remin sa baia mare</b> Ştefan Ovidiu , Bădescu Gabriel
9 <sup>10</sup> -9 <sup>20</sup>	<b>Making web accesible applications by using gis open source systems for the management of environment protection projects</b> Gabriel Bădescu, Ovidiu Ştefan, Vasile Hotea, Bud Ioan, Cornel Păunescu, Nivelț Petru Hreniuc, Eduard Iulius Keller, Carmen Nuţiu, Adrian Traian Rădulescu & Rodica Bădescu
9 <sup>20</sup> -9 <sup>30</sup>	<b>The safety during the functioning of the exhaust fan applying the risk based maintenance</b> Istvan Fulop & Csaba Gyenge & Daniela Fulop
9 <sup>30</sup> -9 <sup>40</sup>	<b>International union of machine builders in The global world</b> Mikhaylov Aleksander

9 <sup>40</sup> -9 <sup>50</sup>	<b>Using remote sensing and the national positioning system rompos gnss in the projects for sustainable development and environment protection</b> Gabriel Bădescu, Ovidiu Ștefan, Nicolae Afrim Băncilă, Mircea Ortelecan, Nivelț Petru Hreniuc, Ioel Samuel Vereș, Sanda Naș, Gabriela Mariana Militaru, Adrian Traian Rădulescu & Rodica Bădescu
9 <sup>50</sup> -10 <sup>00</sup>	<b>Means for controlling natural bacterial leaching and exploiting dissolved copper</b> Petru N. Hreniuc & Gabriel Bădescu
	<b>Papers &amp; Authors Section 8</b>
10 <sup>00</sup> -10 <sup>10</sup>	<b>Metal forming process control based on reduced order model</b> Maier Catalina, Epureanu Alexandru, Marinescu Vasile, Paunoiu Viorel, Afteni Mitica, Marin Florin Bogdan
10 <sup>10</sup> -10 <sup>20</sup>	<b>Forming of aluminum alloy thin sheets by soft dies</b> Fabrizio Quadrini, Loredana Santo & Erica Anna Squeo
10 <sup>20</sup> -10 <sup>30</sup>	<b>Experimental results on surface roughness generated by A new type of device for cold shear cutting of bars</b> Ruxandra Cioară & Romeo Cioară
10 <sup>30</sup> -11 <sup>00</sup>	Coffe break
11 <sup>00</sup> -11 <sup>10</sup>	<b>About a family of new devices for cold shear cutting of bars</b> Ruxandra Cioară & Romeo Cioară
	<b>Vulcanizing presses. Requirements and performance</b> Cosmina Pöllner & Răzvan Răceu
11 <sup>10</sup> -11 <sup>20</sup>	<b>Spatial hypocycloid automatic machine For cold forming. Concept and structure</b> Romeo Cioară, Răzvan Răceu & Pöllner Cosmina
11 <sup>20</sup> -11 <sup>30</sup>	<b>Mechanical vulcanizing press. Structure and operation</b> Romeo Cioară, Cosmina Pollner & Răzvan Răceu
11 <sup>30</sup> -11 <sup>40</sup>	<b>Forming of aluminum alloy thin sheets by soft dies</b> Fabrizio Quadrini, Loredana Santo & Erica Anna Squeo
11 <sup>40</sup> -11 <sup>50</sup>	<b>Influence of the rolling direction over the level of the forming limit curve in the case of tailor welded blanks</b> Vlad Andrei Ciubotariu
11 <sup>50</sup> -12 <sup>00</sup>	<b>Positioning of the electromagnetic forming process for drawing using comparative analysis</b> Mihai-Cătălin Mocanu-Andrieș, Traian Grănescu & Rădeanu Alexandru
12 <sup>00</sup> -12 <sup>10</sup>	<b>Theoretical and experimental studies for the behavior determination of same steels at the cold plastic deformation</b> Luminița Marincei, Monica Iordache, Eduard Nițu, Ion Ungureanu, Gina Boicea
12 <sup>10</sup> -12 <sup>20</sup>	<b>Stresses distribution as a function of the used Plasticity criteria</b> Axinte Crina, Cristea Ion, Radu Petrica
12 <sup>20</sup> -12 <sup>30</sup>	<b>A comparative study for open die forging-extrusion process of clover-shaped Rectangular-shaped aluminum alloy</b> Cenk Misirli & Yılmaz Çan
13 <sup>00</sup> -15 <sup>00</sup>	<b>Lunch Break</b>
16 <sup>30</sup> -18 <sup>00</sup>	<b>Workshop - New composite materials and processes</b>

## CONFERENCE VENUE

Slănic-Moldova is a well-known and very beautiful Romanian spa resort town situated on the eastern slope of the Eastern Carpathians, in the foothills of Nemira massifs, at 84 km south-west of the municipality of Bacău (capital of Bacău county).

Its location at an elevation of 530 m, in a valley surrounded by forests of beeches and fir trees, on the Slănic beck (a tributary of Troțuș river), its mountainous temperate climate with a pure air, free of dust and allergens and rich in resinous aerosols and negative ions, with average annual temperatures of 7.4°C and, not at last, its excellent mineral waters, have made of Slănic-Moldova a standing-season resort widely recognized as the Pearl of eastern Romania.

The resort has many hotels and villas, a sanatorium complex and various facilities and opportunities for recreation and amusement (concert halls, gaming halls, sports grounds, bowling alley, disco etc.). The wild and fascinating landscape offers the opportunity of small escapades on the shady and quiet, narrow and sometimes steep but easy to go paths from the left side of the Slănic beck and the tourists can capture some of the nature show provided by the resort, accompanied by the murmur of the Waterfall.

A mineral-water bottling station also exists in Slănic-Moldova, the resort being renowned for its springs of carbonated, bi-carbonated, slightly sulphurous, chlorided, sodic, hypertonic, hypotonic and certain multi-mineral waters. Discovered in 1801 and for the first time chemically tested in 1852, those springs have been exploited since 1877 and have confirmed their therapeutic qualities in the course of time, being awarded with medals at international exhibitions in Paris, Vienna, Frankfurt am Main, etc., experts comparing them to the mineral waters of Karlovy Vary, Vichy, Aix-les-Bains, a.o.

Tourists and patients can go by bus from Slănic-Moldova to Târgu-Ocna (18 km), to visit the underground balneal sanatorium, with a salt-mine microclimate.





## REGISTRATION DESK

The Registration desk will be open beginning Wednesday, May 19, 2010 between 15<sup>00</sup>-19<sup>00</sup> and Thursday May 20, 2010 between 8<sup>30</sup>-10<sup>45</sup> at Euro-Vacanta Hotel Main Hall, Slanic-Moldova, Romania.

## PARTICIPATION FEE

Author or coauthor participant	150 EUR (incl. VAT)
Accompanying person	100 EUR (incl. VAT)
Second paper	20 EUR (incl. VAT)

### The Registration fee includes:

#### Author/Coauthor fee includes:

- access to all technical sessions
- volume
- welcome reception
- gala dinner
- coffees
- breakfasts
- lunches
- dinners
- accommodation for two nights (20-21 and 21-22 May).

#### Accompanying person fee includes:

- access to all technical sessions
- coffees
- breakfasts
- lunches
- dinners
- accommodation for two nights (20-21 and 21-22 May).