

JOINT CONFERENCES' PROGRAM



ICAMaT 2014 - 7th International Conference on Advanced Manufacturing Technologies

ICNcT 2014 - 17th International Conference of Nonconventional Technologies

POLCOM 2014 - International Conference of Technology for Polymeric and Composites Products

ROBOTICS 2014 - VIth International Conference on Robotics

JOINT CONFERENCES' PROGRAM



Thursday, 23th October

Time	Activities
8.30 – 9.30	<i>Registration of the participants</i>
9.30 – 11.00	<p>Opening ceremony of TCM 60 and joint conferences ICAMaT, ICNcT, POLCOM and ROBOTICS (AN 010)</p> <p>Welcome speeches of participants from all conferences and TCM' 60 event:</p> <ul style="list-style-type: none"> • Mihnea COSTOIU, Minister Delegate for Higher Education, Scientific Research and Technological Development • Prof. PhD Eng. Ecaterina ANDRONESCU, President of the Senate within POLITEHNICA University of Bucharest • Prof. PhD Eng. George DARIE, Rector of POLITEHNICA University of Bucharest • Prof. PhD Eng. Ec. Cristian DOICIN, Dean of the Faculty of Engineering and Management of Technological Systems • Prof. PhD Eng. Richard HERMAN, President of Romanian Association for Nonconventional Technologies • Prof. PhD Eng. DHC, Aurel NANU, Honorary President of Romanian Association for Nonconventional Technologies (video message) • Prof. PhD Eng. Dorel BANABIC, corresponding member of Romanian Academy, President of European Scientific Association for Material Forming • PhD Eng. Constantin STROE - ACAROM • Eng. Marcel DIACONU - ASPAPLAST • Assoc. Prof. PhD Eng. Nicolae IONESCU, Head of Manufacturing Engineering Department • Prof. PhD Eng. Pavel Topală, State University „Alecu Russo” from Bălți, Republic of Moldova • Prof. PhD Eng. Mircea IVANESCU, President of Robotics Society of Romania • Prof. PhD Eng. Voicu TACHE, Former Rector of POLITEHNICA University of Bucharest • Prof. PhD Eng. Aurel STURZU, POLITEHNICA University of Bucharest • Prof. PhD Eng. Florian DRAGANESCU, POLITEHNICA University of Bucharest
11.00-11.30	Coffee break
11.30 – 13.35	<p>Plenary session (AN 010) – Chairmen, Prof. PhD Eng. Ec. Cristian DOICIN, Eng. Ioan AVRAM</p> <p>11.30 – 11.55 - <i>Green Management of spare Parts for an Integrated Optimal Maintenance and Production Policy</i>, Sofiene DELLAGI, Université de Lorraine, Laboratoire de Génie Industriel, de Production et Maintenance – Metz.</p> <p>11.55 – 12.20. - <i>Advanced Integrated System Of Innovative Gear Pumps For Polymeric Products Engineering</i>, Constantin Gheorghe Opran, University POLITEHNICA of Bucharest, Romania, Mircea Pricop, SC HESPER SA Bucharest, Romania, Constantin Teodoru, SC HESPER SA Bucharest, Romania, Maria Dinu, SC HESPER SA Bucharest, Romania.</p> <p>12.20 – 12.45 - <i>Do we need Product Lifecycle Management?</i>, Alin Popescu, Cenit Romania</p> <p>12.45 – 13.10 - <i>Points of View Concerning the Concept of Non-Conventional Technologies and their Current Development</i>, Laurențiu Slătineanu, Margareta Coteață, Oana Dodun.</p> <p>13.10 – 13.35 - <i>Perspectives In Optoelectronics. Present And Future in INOE</i>, Roxana Savastru, Gabriela Pavelescu, Roxana Radvan.</p>
13.35-15.00	Lunch - New Library, 2 nd floor
15.00 – 18.45	Sections Papers according each conference programme (Coffee brake – opening of a new laboratory – „Laboratory of Testing Polymeric Composites Products”, partnership UPB, BASF, SARTOROM – ZWICK, INSTRON- Room CF 009)
19.00-24.00	Gala Dinner (POTCOAVA restaurant)

Friday, 24th October

Time	Activities
8.30 – 11.00	<p>Plenary session (A2.1 – New Library) – Chairman, Prof. PhD Eng. Tom SAVU</p> <p>8.30 – 8.55 - <i>The Textile And Leather Industry – Promoter For Smart Products And Cultural Traditions</i>, Carmen Ghițuleasa</p> <p>8.55 – 9.20 - <i>Benefits of the additive manufacturing in robotics</i>, PhD Vaclav Krys, Czech Republic</p> <p>9.20 – 9.45 - <i>Project Management and Lean Engineering</i>, Toufik Boudouh, Maître de Conférences - Laboratoire IRTES-M3M - Département IMSI, Université de Technologie de Belfort-Montbéliard</p> <p>9.45 – 10.10 - <i>Trends And Technological Innovations In Surgical Robotics</i>, Prof. PhD Eng. Doina Pisla, Tehnical University of Cluj-Napoca, President of Technical Commission for Kinematics Calculation from International Federation for Science Promotion of Mechanisms and Machines (IFTToMM)</p> <p>10.10 – 10.35 - <i>Advances in manufacturing</i>, Dorel BANABIC, Technical University of Cluj-Napoca.</p> <p>10.35 – 11.00 – <i>Hyper-Redundant Robotic Systems</i>, Prof. PhD Eng. Mircea Ivanescu, President of Romanian Society of Robotics, Member of Romanian Technical Sciences Academy</p>
11.00-11.30	Coffee break
11.30 – 13.35	<p>Plenary session (A2.1 – New Library) – Chairman, Prof. PhD Eng. Daniel GHICULESCU</p> <p>11.30 – 11.55 - <i>Grasp and Grippings Systems-State of Art</i>, Prof. PhD Eng. Ionel Staretu, President of Brasov Branch of Romanian Society of Robotics</p> <p>11.55 – 12.20. -, <i>Innovative Solutions For Performances Increase At Micro-Electrical Discharge Machining Aided By Ultrasonics</i>, Prof. PhD Eng. Daniel Ghiculescu, Prof. PhD Eng. Niculăe Ion Marinescu, PhD Sergiu Nanu, “Politehnica” University of Bucharest</p> <p>12.20 – 12.45 - <i>Obtaining Surfaces with Taylor Cone Shaped Asperities Of Micro- and Nano-Scale Dimensions Using the Edi Method</i>, Pavel Topală, State University „Alecu Russo” from Bălți, Republic of Moldova, Dumitru Nedelcu, Universitatea Tehnică Gheorghe Asachi, Iași</p> <p>12.45 – 13.30 – <i>Training Stands For Energy Efficient Drives And Systems</i>, Dipl. eng. Krasimir Krastev, head of Engineering department at AMK, Ltd, Gabrovo, Dr. eng. Borislav Stoyanov, project leader in Engineering department at AMK Ltd, Gabrovo, Bulgaria</p>
13.35-15.00	Lunch - New Library, 2 nd floor
15.00 – 18.45	Sections Papers according each conference programme
19.00-20.00	Dinner (POTCOAVA restaurant)

Saturday 25th October

- **Meeting of Machines Building Technology Departments Heads from Bucharest, Chișinău, Brașov, Iași, Timișoara and Cluj-Napoca, which celebrate this year, 50 or 60 years of existence – 9 -12, Room CD 008**
- **Visit in laboratories and research centers from the Faculty of Engineering and Management of Technological Systems, 9 - 14**
- **Meeting of Aliance of Technological Faculties and Mechanical Faculties, 12.30 – 15, Room CD 008**

ICAMaT 2014 - 7th International Conference on Advanced Manufacturing Technologies –Sections

	Thursday, 23 th October, 15 - 19	Friday, 24 th October, 15 - 19
S ICAMaT.1	Product Development - Room AN010	
S ICAMaT.2	CAD, CAM, CAE, CIM Techniques and Concurrent Engineering 1 - Room A2.1	CAD, CAM, CAE, CIM Techniques and Concurrent Engineering 2- Room A2.1
S ICAMaT.3	Cutting Processes, Cutting Tools and Forming Technologies 1 - Room A2.3	Cutting Processes, Cutting Tools and Forming Technologies 2 - Room A2.3
S ICAMaT.4	Manufacturing Technologies - Room CB 110	
S ICAMaT.5	Technological Equipment and Automation- Room CB 210	
S ICAMaT.6	Management, Marketing, Production Planning and Production Quality 1 - Room CB 113	Management, Marketing, Production Planning and Production Quality 2 - Room CB 113

	Product Development – Moderators: GHEORGHE Marian, BOUDOUH Toufik, BRÎNDAȘU Paul Dan	
1	TSAGARIS Apostolos, TZETZIS Dimitrios, MANSOUR Gabriel, HATZIKOS Evangelos, KYRATIS Panagiotis	Improving the Tensile Strength of a Novel Double Hook Design Manufactured by Nanosilica Epoxy Reinforced Aramid/Carbon Composites
2	DRAGHICI George	Infrastructure for Integrated Collaborative Product Development in Distributed Environment
3	DIJMARESCU Manuela-Roxana, PARVU Corneliu, GHEORGHE Marian	Knowledge Database for Functional Design of Mechanical Products
4	TARARA Aurel, MAZILU Traian	Design Method for Customized Products
5	TARARA Aurel, MAZILU Traian, ABAZA Bogdan	Case Study on Design Method for Customized Products
6	KYRATIS Panagiotis, DIMOU Eva, MANAVIS Athanasios, BILALIS Nikolaos	An Inspired from Nature Design Methodology for the Fashion Industry
7	BOUDOUH Toufik, GRUNDER Olivier	A New Algorithm for the Optimization of the Design Process Using the Design Structure Matrix
8	BANCIU Felicia Veronica, GROZAV Ion, TURC Cristian Gheorghe	Tolerance Allocation Using Design of Experiments
9	BĂILĂ Diana Irinel, MOCIOIU Oana Cătălina, GHEORGHE Marian	Characteristics of Dental Microsurgery Instruments for a Database System
10	NECULACHE Cristina, FLOREA Emilia-Roxana	General Structure and Coding of a Product Group Database
11	PARIS Adrian Stere, TÂRCOLEA Constantin	Materials Ranking by Means of Multiattribute Decision Making
12	COSTEA Aurel, GEORGESCU Tatiana, BABĂ Alexandru	Constructive-Functional Optimization for Modular Structure Configuration
13	POPESCU Liliana Georgeta, BRÎNDAȘU Paul Dan	Study on New Product Development, by Networking
14	PĂMÎNȚĂ Eugen	The Way of Information to Knowledge Required in Design Activity

	CAD, CAM, CAE, CIM Techniques and Concurrent Engineering 1 - Moderators: SZUDER Andrei, ABAZA Bogdan, KYRATIS Panagiotis	
1	ABAZA Bogdan, SAVU Tom	Data Organisation for Describing Product's Structure in a Simulation Framework
2	NICOLESCU Florin Adrian, IVAN Andrei Mario, AVRAM Georgia Cezara, MANTEA Theodor Adrian	New Design Concepts in Computer Assisted Design of Robotic Flexible Manufacturing Cell for Part's Turning
3	SAVU Tom, ABAZA Bogdan	An Algorithm for Generating Product's Structure in a Simulation Framework
4	CATANĂ Mădălin, TONOIU Sergiu, PURCĂREA Mihai	Bidirectional Load Planning Procedure for Job-shops with Availability Time-windows for Specific Machines
5	GHIONEĂ Ionuț Gabriel, DEVEDŽIĆ Goran, ČUKOVIĆ Saša	Parametric Modeling of Surfaces using CATIA v5 Environment
6	KYRATIS Panagiotis, MANAVIS Athanasios	CAD Based Drilling Simulations for Al7075
7	POPP Ilie Octavian, TELEA Dorin	Consideration Regarding the Configuration of the Resources and Modeling the Manufacturing Work cell
8	ANGHEL Daniel Constantin, BELU Nadia	Contributions to Predict the Malfunction Probability of the Human-Machine-Environment System, Using Artificial Neural Networks
9	VASILONI Anton Mircea, DRĂGOI Mircea Viorel	Virtual Instrumentation for Adaptive Control of Cutting Processes

	CAD, CAM, CAE, CIM Techniques and Concurrent Engineering 2 - Moderators: NEAGU Corneliu, COTET Costel Emil, NICOLESCU Florin Adrian	
1	SPÂNU Paulina, ABAZA Bogdan Felician, CAZACU Daniel	Technological Process Design for the Flanged Parts Using LabVIEW Application
2	FLOREA Emilia-Roxana, NECULACHE Cristina	Basic Architecture and Relationships of a Turning Tools Database
3	GORGHI Mircea	Holonic Modeling in Scheduling Process
4	GORGHI Mircea, NEAGU Corneliu	Modeling and Simulation of Holonic Meta-algorithm in Scheduling Process Using PERT Technique. Optimization in Job Shop Scheduling Problem
5	ARMASOIU Giorgia Elena, GHEORGHE Marian	Methodology for Recognizing Manufacturing Features of Prismatic Components from DXF Files
6	POPA Cicerone Laurentiu, COTET Costel Emil, GAVRILA Stefan, IONITA Valentin	Modelling, Simulation and Optimization of a Packaging and Palletizing System
7	PETRICEANU Stefan Constantin, VIRLAN Oana	Mathematical Modeling of Non-Destructive Testing for Layered Materials
8	IVAN Andrei Mario, NICOLESCU Florin Adrian, AVRAM Georgia Cezara, MANTEA Theodor Adrian	Off-line Programming and Functioning Simulation of Robotic Flexible Manufacturing Cell for Part's Turning

	Cutting Processes, Cutting Tools and Forming Technologies 1 – Moderators: BĂLC Nicolae, NITU Eduard, SINDILĂ Gheorghe	
1	SINDILĂ Gheorghe	The Influence of the Sheared Profile's Shape on the Punching Force
2	CIOCAN Ion, DATCU Daniel, GHEORGHE Marian	Basic Conditions for 5-Axis Milling of Impeller Specific Surfaces
3	CIOCAN Ion, ILIESCU Dragos	Optimal Inserts For Profiled Turning Of Impellers
4	LAZARESCU Lucian, NICODIM Ioan, COMSA Dan Sorin, BANABIC Dorel	Effect of the Blank-holding Load on the Drawing Force in the Deep-Drawing Process of Cylindrical and Square Cups
5	FURDUI Filip, CÎRSTOIU Carmen Adriana	Experimental Research on Surface Roughness in Turning of E355 Alloy Steel on CNC Machine Tool
6	GIRJOB Claudia, BOLOGA Octavian, RACZ Gabriel, BIRIS Cristina	Experimental Research of the Formability of Lightweight Metallic Materials Used in Automotive Industry
7	BULEA Horatiu, PĂUNESCU Rodica, FILIP Alexandru Cătălin	Dimensional Variation of Aluminum Honeycomb Panel on Circular Cutting with Abrasive Jet Machining Technology
8	MIHAIL Laurentiu Aurel	Robust Optimization of the Deep Drilling Process by Taguchi Method
9	POPAN Alexandru, BALC Nicolae, CAREAN Alexandru, LUCA Alina, MIRON Alin	Research on Abrasive Water Jet Milling of The Planar Surfaces, Slots and Profiles
10	SICOE Gina Mihaela, IACOMI Doina, IORDACHE Monica, NITU Eduard	Analysis of Intermittent Metal Forming with Planetary Rollers by Numerical Simulation

	Cutting Processes, Cutting Tools and Forming Technologies 2 - Moderators: VLASE Aurelian, VIȘAN Aurelian, BLĂJINĂ Ovidiu	
1	NEAGU Corneliu, ULMEANU Mihaela-Elena, TONOIU Sergiu	Mathematical Model Regarding the Processing Accuracy in Milling of Spherical Surfaces
2	ABASS Khalil Ibrahim, DRĂGĂNESCU Florian	A Study of Forming Tool Profile Effect in Single Point Incremental Forming by Finite Element Analysis
3	BLĂJINĂ Ovidiu, VLASE Aurelian and IACOB Marius	Model for Optimization of the Tool Life and the Cutting Speed for Maximum Productivity at Drilling of the Steel 2NiCr185
4	BLĂJINĂ Ovidiu, VLASE Aurelian and IACOB Marius	Model for Economic Optimization of the Tool Life and the Cutting Speed at Drilling of the Steel 2NiCr185
5	VLASE Aurelian, BLĂJINĂ Ovidiu, IACOB Marius	Calculus of the Relationship of the Axial Cutting Force at Drilling of the Stainless Steel 10TiNiCr180
6	FLOREA Emilia-Roxana, GHEORGHE Marian	Structure and Components of a Turning Database System
7	GHIONE A Ionuț Gabriel, TĂNASE Ioan, GHIONE A Adrian	Researches on Milling Machining of Planar Thin Wall Parts
8	SINDILĂ Gheorghe	Metal Forming Smoothing of Flat Surfaces by Rolling
9	VLASE Aurelian, BLĂJINĂ Ovidiu, IACOB Marius	Calculus of the Relationship of the Cutting Moment at Drilling of the Stainless Steel X15CrNiSi20-12

	Manufacturing Technologies - Moderators: DODUN Oana, DOICIN Cristian Vasile, IONESCU Nicolae	
1	LEONTE Alexandru Stefan, NEDELCU Anisor, DRAGAN Razvan Gabriel	Determination of Optimal Nondestructive Technique (NDT) Using Multi-criteria Analysis
2	PĂCURAR Răzvan, PĂCURAR Ancuța, POPIȘTER Florin, POPIȘTER Anca	Finite Element Analysis to Improve the Accuracy of ABS Plastic Parts Made by Desktop 3D Printing Method
3	BIRIS Cristina, BOLOGA Octavian, GIRJOB Claudia, RACZ Gabriel	Considerations on Cutting Regime Influence of NC Laser Cutting Machine Tool on Processed Surface Quality
4	BUICAN George-Răzvan, OANCEA Gheorghe, LANCEA Camil, POP Mihai Alin	Some Considerations Regarding Micro Hardness of Parts Manufactured from 316-L Steel Using SLM Technology
5	BĂILĂ Diana Irinel, DOICIN Cristian Vasile, MOCIOIU Oana Cătălina	Development of Powders for Selective Laser Sintering
6	DRAGAN Razvan Gabriel, ROSCA Ileana Constanta, CAZANGIU Diana, LEONTE Alexandru Stefan	Thermal Response for a Reinforced Concrete Slab Analyzed with Active Infrared Thermography and Comsol Multiphysics
7	ENE (CĂSCĂȚĂU) Andreea Mădălina, MOREL Daniel, GHEORGHE Marian	Effective Dimensional Characteristics of Certain Industrial Welded Structures
8	SAVIN Alexandru, FLOCA Alexandru, TRIFANESCU Mihai, IONESCU Nicolae, VISAN Aurelian	Development of Modeling Process in Rapid Freeze Prototyping
9	SLĂTINEANU Laurențiu, DODUN Oana, COTEAȚĂ Margareta, MIRCESCU Ciprian, BEȘLIU Irina, RADOVANOVIC Miroslav	Use of Taguchi Method and Grey Relational Analysis for Optimizing a Ram Electrical Discharge Machining Process
10	AMZA Gheorghe, NITOI Dan Florin, APOSTOLESCU Zoia, TASCA Gabriel Dan	Experimental Results Regarding Metal Plating by Welding Method in Ultrasonic Field for High Corroded Base Metal Piece
11	AMZA Gheorghe, APOSTOLESCU Zoia, AMZA Cătălin Gheorghe, TEODORESCU Marius Cornel, DRAGOMIR-GROZA Adrian Ioan	Theoretical and Experimental Cladding Technological Process of Spare Mechanical Engineering
12	DODUN Oana, SLĂTINEANU Laurențiu, COTEAȚĂ Margareta, MERTICARU Vasile, NAGÎȚ Gheorghe	Surface Roughness at Wire Electrical Discharge Machining

	Technological Equipment and Automation - Moderators: BOLOGA Octavian, TONOIU Sergiu, CATANĂ Mădălin-Gabriel	
1	ORZAN Alexandru, BUZATU Constantin	Experimental Research on Wear and Thermal Deformation for Shaft Gauge
2	STROE Sergiu, ONESCU Constantin, INAL Cagri	Development of a Drilling Machine for an Asymmetric Element with Multiple Holes
3	CHICEA Anca-Lucia, BREAZ Radu-Eugen, BOLOGA Octavian, RACZ Sever-Gabriel	Using Serial Industrial Robots and CAM Techniques for Manufacturing Prosthetic Devices
4	DUȘE Dan Maniu, ARI Alexandru Radu	Vibration Properties of Frame for Human Powered Vehicles
5	SIMION Carmen	Assessing Bias and Linearity of a Measurement System
6	BARBU Stefan, TELEA Dorin, POPP Ilie Octavian	Study on Improving the Functional Performance of Linear Motion Systems
7	DUȘE Dan Maniu, ARI Alexandru Radu	Analysis Based Optimization of Human Powered Vehicle Body
8	ION-GUTA Ion	The Dynamic Behavior and Stability Analysis of an Electro-Hydraulic Adaptive Transmission
9	TELEA Dorin, POPP Ilie Octavian	Elements Design of the Equipment for the Closing of Shock Absorbers Through the Rolling Method
10	CRENGANIS Mihai, BOLOGA Octavian	Another Approach for Redundancy Resolution of a 7 DOF Robotic Arm
11	CAZACU Daniel, BOIȚEANU Florin	Quality Control Test Systems for Overload Protectors
12	TONOIU Sergiu, CATANĂ Mădălin-Gabriel, TARBĂ Cristian	Design and Testing of Improved Test Bars for Measuring the Rigidity of Spindles of Normal Lathes

	Management, Marketing, Production Planning and Production Quality 1 - Moderators: PĂMÎNȚĂ Eugen, DUMITRESCU Andrei, ULMEANU Mihaela	
1	GAVRILUTA Alin, ROTARU Ana, NITU Eduard	The Analysis Of Performances Of An Assembly Line In Strike-Zone Supply Method Managed With Kanban And Conwip
2	DUMITRESCU Andrei, ULMEANU Mihaela - Elena	Research Regarding the Theories on Focal Colours and Colour Identification
3	DUMITRESCU Andrei, ULMEANU Mihaela - Elena	Research Regarding the Theories on Colour Naming
4	ILIESCU Dragos, DIACONU Ion, MATEIAS Ion, GHEORGHE Marian	Raw Material Incoming Inspection Process Improvement – a Case Study
5	ILIESCU Dragos, DIACONU Ion, MATEIAS Ion, GHEORGHE Marian	Organisational Architectures Modelling
6	MAZILU Traian, TARARA Aurel	From Mass Production to Mass Customization of LED Lighting Systems - Case Study
7	TIRIPLICA Petre Gheorghe, DOICIN Cristian, TARBA Cristian, GHIONEĂ Gabriel Ionut, DRAGANESCU Florian	Analysis of the Product Cost and Price Variation
8	FECHETE Flavia, NEDELICU Anişor	Economic Performance Assessment Model for Industrial Systems: A Case Study
9	PĂMÎNȚĂ Eugen , BANCUI Felicia Veronica	Higher Technical Education Research vs. Education. Technique of Teaching, Between Classical and Modern
10	ANTON Nicolae, NEDELICU Anişor	The Systemic Approach to Information Protection in Relation to Risk in an Integrated Information Security System
11	NEICU Marian Ştefan, SAVII George Gustav	Development of an Information System for the Modern Business Environment, Adapted to SMEs

	Management, Marketing, Production Planning and Production Quality 2: Moderators: IONESCU Nicolae, MILITARU Constantin, GHIONEĂ Ionut Gabriel	
1	ALBULESCU Viorel Liviu, NEAGU Corneliu, DOICIN Cristian, TONOIU Sergiu	The Academic – Industry Cooperation and the (Long) Road from Strategy to Competitiveness
2	MAZILU Traian, TARARA Aurel	A Review of Transition to Mass Customization in Manufacturing Environment
3	BOZGA Liviu, GHEORGHE Marian	Trends in ICT Service Management
4	ROHAN Rodica, IONESCU Nicolae	Quality Management Approach in Qualifications Framework Implementation in Industrial Engineering
5	MILITARU Gheorghe	An Exploratory Study of the Impact of Servitization on Customer Perceived Value
6	MILITARU Constantin, JUGANARU Cristina , RAHIM Al-Ali Abdel, AVRAMESCU Ana Maria	Some Considerations Regarding the Management Review in Certification Audit Process of Environmental Management System
7	RAHIM Al-Ali Abdel, JUGANARU Cristina , MILITARU Constantin, BANU Alexandra	Aspects Regarding Competence, Training and Awareness Requirements for the Environmental Management System Certification Audit
8	TARBA Cristian, TONOIU Sergiu, TIRIPLICA Petre Gheorghe, GHIONEĂ Ionut Gabriel	Process Planning in Manufacturing Systems
9	ȚONIȘ (BUCEA-MANEA) Rocsana, CATANĂ Mădălin-Gabriel, TONOIU Sergiu	Network Business Environment for Open Innovation in SMEs
10	ȚONIȘ (BUCEA-MANEA) Rocsana	Enhancing Romanian SMEs Innovation Capacity by Mitigation the Risk Drivers
11	BĂIȘAN Cristina-Elena, GHEORGHE Marian	Sustainable Extraction, Processing and Power Plants in a Database System

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S ICNcT.1. Physical phenomena and processes specific to nonconventional technologies – Room CF 015	S ICNcT.2. Technological systems for nonconventional technologies – Room CE 104 - 105	S ICNcT.3. Modelling, experimental research and nonconventional machining– Room CE 111	S ICNcT.4. Nonconventional technologies management and other nonconventional processes – Room CB203	S ICNcT.5. Environmental friendly technologies and environmental impact reduction - Room CB112
Moderators: Prof. Gh. Obaciu, Prof. L. Slătineanu Assoc. Prof. D. Nițoi	Moderators: Prof. N.I. Marinescu Prof. Carmen Simion Assoc. Prof. Liliana Popa	Moderators: Prof. D. Ghiculescu Assoc. Prof. C. Pisarciuc PhD Dan Savastru	Moderators: Prof. R. Herman, Prof. A. Vișan, Prof. A.M. Țițu	Moderators: Prof. Alexandra Banu, Prof. M. Radovanović, Assoc. Prof. T. Buidos
1. SHARPENED PEAKS BEHAVIOR IN ELECTROCHEMICAL MACHINING PROCESS Geo Caracaș, Laurențiu Slătineanu, Antônio Gonçalves-Coelho, Margareta Coteață, Irina Beșliu	1. PERFORMANCE OF REQUIRED OPERATION OF ELECTRIC POWER SYSTEMS Ștefan Butucea, Gheorghe Obaciu	1. FEM STUDY OF THERMAL FRONT DYNAMICS AT MICRO-ELECTRICAL DISCHARGE MACHINING AIDED AND NOT AIDED BY ULTRASONICS Daniel Ghiculescu, Nicolae Marinescu, Gyula Varga, and Sergiu Nanu	1. ASPECTS REGARDING THE PRODUCTION PROCESSES OPTIMIZATION IN EROSION PROCESSING Richard Herman, Mihaela Herman	1. THE ELECTROCHEMICAL CHARACTERIZATION OF SAME MARTENSITIC STAINLESS STEELS IN NATURAL AND SYNTHETIC WATERS Alexandra Banu, Alexandru Paraschiv, Cristina Juganaru
2. MACHINING DEPTH AND ENERGY CONSUMPTION AT ELECTRICAL DISCHARGE MACHINING OF POLYCRYSTALLINE DIAMOND Cristian Pisarciuc	2. CONTRIBUTIONS TO THE DESIGN OF AN AUXILIARY EQUIPMENT FOR PROCESSING SMALL HOLES THROUGH ELECTRICAL EROSION WITH FORM COPYING Vasile Făgărășan, Carmen Purcar and Aurel Mihail Țițu	2. FEM OF AN IMPLANT BEHAVIOR IN THE SITUATION OF A HIGHER TRABECULAR BONE VOLUME Dan Nițoi, Gheorghe Amza, Stefan Milicescu, Zoia Apostolescu, Andrei Dimitrescu	2. APPLICATION OF EXHAUSTIVE ITERATIVE SEARCH ALGORITHM FOR SOLVING MACHINING OPTIMIZATION PROBLEMS Miloš Madić, Marko Kovačević and Miroslav Radovanović	2. THE ENVIRONMENTAL IMPACT PRELIMINARY STUDY OF MANUFACTURING MACHINING BY APPLYING CO ₂ PE METHODOLOGY Alexandra Banu, Daniel Ghiculescu, Cristina Juganaru, Mihai Trifanescu
3. NONCONVENTIONAL APPROACHES IN II-IV-V ₂ BULK AND THIN FILM GROWTH Mădalin Ion Rusu, Catalin Nicolae Zoita, Adrian Kiss	3. THEORETICAL AND METHODOLOGICAL COMPUTATIONAL ISSUES ON A HYDROSTATIC EQUIPMENT TO REPLICATE ELECTRO DISCHARGE MACHINING FEED MOTION Nicolae Ion MARINESCU, Alexandru Sergiu NANU, Daniel GHICULESCU	3. CRATER SIZE PREDICTION IN ELECTRICAL DISCHARGE GRINDING (EDG) OF POLYCRYSTALLINE DIAMOND (PCD) M. Zulafif Rahim, Songlin Ding, Bo Hu and John Mo	3. UNCONVENTIONAL DISTANCE DETERMINATION THROUGH ABS PULSE EXTRACTION SYSTEM Valeriu Savu, Mădalin Ion Rusu, Daniel Tenciu and Laurentiu Baschir	3. UNCONVENTIONAL WATER MONITORING AND EARLY WARNING SYSTEM Luminita Gherverse, Simona Dontu
4. CONTRIBUTIONS REGARDING TECHNOLOGICAL METAL DEPOSITION IMPROVING USING THE ULTRASONIC WAVES Gheorghe Amza, Valentin Petrescu, Dan Florin Nițoi, Zoia Apostolescu, Marius Cornel Teodorescu, Adrian Ioan Dragomir-Groza	4. ELECTRICAL EFFICIENCY OF EDM POWER SUPPLY Emanoil Toma and Carmen Simion	4. DIMENSIONAL ANALYSIS OF A 40KHZ HIGH POWER ULTRASONIC TRANSDUCER USED IN AIDED EDM Cristian Rugina, Veturia Chiroiu and Mihaela-Alexandra Popescu	4. ASPECTS REGARDING THE USE OF NEURAL NETWORKS IN THE ORGANIZATIONAL MANAGEMENT OF RESEARCH AND DEVELOPMENT OPERATORS IN THE NONCONVENTIONAL TECHNOLOGIES FIELD Simona-Ioana Marinescu	4. COMPARATIVE EXPERIMENTAL RESEARCHES ON THE PROCESSING OF CAR PARTS MADE BY SINTERING OF AN AUSTENITIC STAINLESS STEEL - ALUMINA POWDER MIXTURE Toderita Nemes, Marius Bibu, Cristian Deac, and Alina Gligor
5. THEORETICAL AND EXPERIMENTAL PIECES PLATING ULTRASONIC FIELD Gheorghe Amza, Valentin Petrescu, Zoia Apostolescu, Marius Cornel Teodorescu, Adrian Ioan Dragomir-Groza	5. RESEARCH ABOUT THE OPTIMIZATION OF A MICROWAVE EXPERIMENTAL DEVICE, BY MEANS OF AN ELECTRONIC INVERTER Mircea-Petru Ursu, Traian Buidos	5. SIMULATION OF A FBG TORQUE SENSOR Dan Savastru, Sorin Miclos and Ion Lancranjan	5. SHAPE MEMORY POLYMERS-(SMPs) NANOSTRIP MULTILAYERS APPLIED ON THE NEW BEARING GENERATION FOR HARD WEARING IN TURBOCHARGES Paul Olaru, Ian Hutchings, Nicole Dorr	5. THE MONITORING OF BUILDINGS DEFORMATIONS IN FLOODING AREAS WITH LANDSLIDE RISK M. N. Tautan, S. Miclos, D. Savastru and A. Stoica
6. SOME ASPECTS OF PRELIMINARY DESIGN OF EDM MACHINE Ștefan Butucea, Gheorghe Obaciu	6. COMPUTER AIDED MACHINING OF AN ACOUSTIC HORN FOR ULTRASONICALLY AIDED EDM Ovidiu-Dorin Alupei-Cojocariu, Daniel Ghiculescu	6. CONSIDERATIONS ABOUT ELECTRODEPOSITION OF TITANIUM IN A NICKEL MATRIX Mihaela Botis, Dinu Gubencu	6. UNCONVENTIONAL TECHNOLOGIES – THE PARADIGM OF THE FUTURE OR THE FUTURE OF PARADIGM Liliana Popa	6. STUDY CONCERNING THE EFFECTS OF PLASMA NITRIDING ON THE CHARACTERISTICS OF STRUCTURAL ALLOY STEELS Cristian Deac, Marius Bibu, Valentin Petrescu, Toderita Nemes, Alina Gligor
7. A SYSTEMIC MODEL FOR COMPLEX, ELECTRICAL AND ELECTROCHEMICAL EROSION PROCESSING Mihaela Herman, Richard Herman, Ioan Groza	7. CONSTRUCTIVE SOLUTIONS FOR HYDROSTATIC EQUIPMENT USED AS FEED MOTION REPLICATE AT ELECTRICAL DISCHARGE MACHINING Alexandru Sergiu Nanu, Nicolae Ion Marinescu, Daniel Ghiculescu	7. DETERMINATION BY FEM OF ULTRASONIC HORN PROFILE FOR VIBRATING THE WORKPIECE AT EDM ASSISTED BY ULTRASONICS Daniel Ghiculescu, Nicolae Marinescu, Gyula Varga, Sergiu Nanu	7. TRANSVERSAL LASER ROAD PROFILER M. N. Tautan, S. Miclos, D. Savastru, A. Stoica	7. THE INFLUENCE OF LUBRICANT SYSTEM IN DEEP DRAWING WALLS THICKNESS Alin Pop, Ioan Mihailă, Ioan Radu
8. MATERIAL REMOVAL RATE AT ELECTRICAL DISCHARGE MACHINING OF SMALL DIAMETER EXTERNAL CYLINDRICAL SURFACES Ștefan Stoica, Laurențiu Slătineanu, Margareta Coteață, Oana Dodun, Miroslav Radovanovic	8. COLD PLASTIC DEFORMATION IN ELECTROMAGNETIC FIELD Gheorghe Sindilă, Rodica Rohan	8. EVALUATION OF NONCONVENTIONAL MACHINING PROCESSES CONSIDERING MATERIAL APPLICATION BY USING ADDITIVE RATIO ASSESSMENT METHOD Miloš Madić, Dušan Petković, Miroslav RADOVANOVIC	8. INTEGRATED METHOD FOR EVALUATION OF INTANGIBLE ASSETS APPLIED TO RESEARCH SMES FROM NONCONVENTIONAL FIELD Viorel Vulturescu, Daniel Ghiculescu, Nicolae Marinescu, Marius Mitroi	8. NONCONVENTIONAL TECHNOLOGIES APPLIED IN THE ELECTRONIC COMPONENTS MANUFACTURING Dumitru Mnerie
		9. APPLICATIONS OF THE FACTORIAL EXPERIMENT METHOD ON CUTTING TECHNOLOGY BY ELECTRICAL EROSION WITH WIRE ELECTRODE Dumitru Mnerie, Remus Boboescu, Alin Vasile Mnerie		

ROBOTICS 2014 - VIth International Conference on Robotics Sections - Thursday, 23th October, 15 - 19

<p>S ROBOTICS.1 – Room CD 008 Advanced Intelligent Control in Robotics and Mechatronics Chairmen: Mircea NIȚULESCU, Luige VLĂDĂREANU, Valentin CIUPE, Cristian MOLDOVAN 1) <i>On the development of a voice and gesture based HMI for the control of a mobile robot</i> Cristian MOLDOVAN, Andrei CRACIUN, Valer DOLGA, Erwin-Christian LOVASZ, Inocentiu MANIU, Carmen STICLARU 2) <i>Winding of carbon wire composite structures using two cooperative industrial robots</i> Madalin-Petru SBANCA, Gheorghe Leonte MOGAN 3) <i>Virtual Planning of Needle Trajectories using a Haptic Interface for a Brachytherapy Parallel Robot</i> Florin GÎRBACIA, Bogdan GHERMAN, Silviu BUTNARIU, Nicolae PLITEA, Doru TALABĂ, Doina PÎSLĂ 4) <i>Structure and Control Method for a Pneumatic Muscle Actuated Seat Used in a Motion Simulator</i> Valentin CIUPE, Inocentiu MANIU, Erwin-Christian LOVASZ 5) <i>Hybrid Force-Position Humanoid Hand Control in 3D Virtual Environment</i> Danut BUCUR, Luige VLADAREANU, Hongnian YU, Xianchao ZHAO, Stefan DUMITRU 6) <i>Energies of Accelerations in Advanced Robotics Dynamics</i> Iuliu NEGREAN, Kalman KACSO, Claudiu SCHONSTEIN 7) <i>Matlab Application For Hexapod Robot Locomotion Over Obstacles</i> Sorin Manoiu OLARU, Mircea NIȚULESCU 8) <i>Computer assisted selection of servomotor driving system for linear motion NC axis experimental stand</i> Florin Adrian NICOLESCU, Georgia Cezara AVRAM, Andrei Mario IVAN, Theodor Adrian MANTEA 9) <i>Intelligent Sensing and Motion Control in Robotic Manufacturing Systems</i> Ion ION, Grigore STAMATESCU, Cornel DINU 10) <i>Modeling, Simulation And Experimental Determination Of The Spine Muscle's Activities Of The Driver</i> Raul Miklos KULCSAR, Ion Silviu BOROZAN, Veronica ARGEȘANU, Inocentiu MANIU, Felicia Streian 11) <i>Experimental research to evaluate thermal behavior of a brushless driving servomotor for linear motion NC axis experimental stand</i> Georgia Cezara AVRAM, Florin Adrian NICOLESCU, Radu Constantin PARPALĂ, Constantin DUMITRAȘCU</p>	<p>S ROBOTICS.2 - Room CB 201 Robotics and Mechatronics Systems; Chairmen: Inocentiu MANIU, Florin Adrian NICOLESCU, Constantin OCNĂRESCU, Stelian BRAD 1) <i>Forward Kinematics Model of a Bucket Excavator's Digging Equipment</i> Marian DIMA, Cătălin FRÂNCU 2) <i>Inverse Kinematics Model of a Bucket Excavator's Digging Equipment</i> Marian DIMA, Cătălin FRÂNCU 3) <i>Increasing the efficiency of robotic manufacturing systems by layout optimization</i> Bogdan MOCAN, Darius BUNA, Mircea FULEA, Stelian BRAD 4) <i>Brushless servomotor's thermal behavior computer assisted evaluation for a linear motion NC axis experimental stand</i> Florin Adrian NICOLESCU, Georgia Cezara AVRAM, Andrei Mario IVAN Theodor Adrian MANTEA 5) <i>Kinematic Modelling of a new 5-DOF (Axis) Parallel Robot used in Brachytherapy</i> Bogdan GHERMAN, Nicolae PLITEA, Calin VAIDA, Doina PISLA 6) <i>Performance analysis of two robots one serial 4R and one parallel 3T</i> Constantin OCNĂRESCU 7) <i>Natural Interaction with an Assistive Humanoid Robot</i> Răzvan Gabriel BOBOC, Mihai DUGULEANĂ, Doru TALABĂ</p>	<p>S ROBOTICS.3 – Room CB 017 Mobile Robots Chairmen: Erwin-Christian LOVASZ, Dorian COJOCARU, Mihai Olimpiu TĂTAR 1) <i>Adaptable Robots Based on Linkage Type Mechanisms for Pipeline Inspection Task</i> Mihai Olimpiu TĂTAR, Ioan ARDELEAN, Dan MÂNDRU 2) <i>Development of a Smart Sensor System with Application to In-Pipe Inspection Robots</i> Leon BRAI, Radu BALAN, Ciprian LAPUSAN 3) <i>Differential Formulation for the Coefficient of Restitution of a Rigid Link</i> Dorian COJOCARU, Dan MARGHITU 4) <i>Autonomous Robot For Mining Exploration: A Structomatical And Kinematical Model For Uneven Ground</i> Marin ENE, Ion SIMIONESCU, Victor MOISE, Iulian TABĂRĂ, Maxime MAILLOUX 5) <i>Adaptation To Rough Terrains By Using Force Sensing On The MERO Modular Walking Robots</i> Ion ION, Mircea GĂVAN, Adrian CURA, Grigore STAMATESCU, Cornel DINU</p>
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<p>S ROBOTICS.4 - Room CD 008</p> <p><i>Industrial Robot Applications</i> Chairmen: Adrian BRUJA, Gheorghe Leonte MOGAN, Luigi-Renato MISTODIE, Constantin POPA 1) <i>Researches Regarding Pose Accuracy Characteristics at Industrial Robots</i> Valeria VACĂRESCU, Cella-Flavia BUCIUMAN 2) <i>Presenting a Railbound Forging Manipulator</i> Florian Ion PETRESCU, Rely Victoria PETRESCU 3) <i>Robotic Arc Welding from Flexible Automation to the Advanced Control of Process and Movement</i> Nicolae JONI, Luigi-Renato MISTODIE 4) <i>A Literature Survey On Reconfigurable Industrial Robotic Work Cells</i> Mircea FULEA, Sorin POPESCU, Emilia BRAD, Bogdan MOCAN, Mircea MURAR 5) <i>Hybrid Analytical Analysis In The Design Of Mechatronic Systems</i> Olimpiu HANCU, Mihaela SIMION, Ciprian LĂPUȘAN 6) <i>Quaternion-Based Algorithm for Direct Kinematic Model of a Kawasaki FS10E Articulated Arm Robot</i> Stelian POPA, Alexandru DORIN, Florin Adrian NICOLESCU, Andrei Mario IVAN 7) <i>Monitoring and control of dual-arm industrial robot tasks using IoT application and services</i> Mircea MURAR, Stelian BRAD 8) <i>Vibration analysis on the structure of the robot Yamaha YK 400</i> Adrian POP, Valer DOLGA 9) <i>Kinematic Study Of Industrial Robots</i> Constantin POPA, Mihaela–Florentina DUȚU Luminița VOICULESCU, Alina OVANISOF, Maria DRAGOMIR 10) <i>Calculating Angles Of Rotation Of The Robots Elements For Given Position And Orientation Depending On The Gripping Device</i> Constantin POPA, Ion DINU, Luminița VOICULESCU1, Mihaela–Florentina DUȚU, Maria DRAGOMIR1, Alina OVANISOF</p>	<p>S ROBOTICS.5 - Room CB 201</p> <p><i>Mechatronic Systems Engineering</i> Chairmen: Andrei CRAIFALEANU, Iulian TABĂRĂ, Ileana Dugaesescu 1) <i>Bend testing of parts made by Rapid Prototyping with respect to possible use in Robotics</i> Jan LIPINA, Václav KRYS , Jiří MAREK 2) <i>Design and Simulation the Manipulator SI2M Used in Microfactories</i> Simona NOVEANU, Călin RUSU, Dan MÂNDRU 3) <i>Synthetic Representation Of The Robotic Assembly</i> Iulian TABĂRĂ 4) <i>Structural and Kinematic Particularities of the Micro-robot Mechanisms</i> Ileana Dugaesescu, Dinu Comanescu, Adriana Comanescu 5) <i>Reconfigurable Anthropomorphic Gripper with Three Fingers: Synthesis, Analysis, and Simulation</i> Ionel STARETU, Sebastian JITARIU 6) <i>Bending Vibrations of a Viscoelastic Euler-Bernoulli Beam – Two Methods and Comparison</i> Andrei CRAIFALEANU, Nicolaie ORĂȘANU, Cristian DRAGOMIRESCU 7) <i>Reduction of Arbitrary Rigid Bodies to Inertially Equivalent Discrete</i> Andrei CRAIFALEANU, Nicolaie ORĂȘANU 8) <i>Hydraulic And Termographical Test Rig For Automatic Gearboxes</i> Ion Silviu BOROZAN, Inocentiu MANIU, Veronica ARGESANU, Mihaela JULA, Raul KULCSAR, Laurentiu MANIU 9) <i>On A New Chain Planetary Transmission For Renewable Energy Systems. Part I: Product Design</i> Radu SAULESCU, Mircea NEAGOE, Codruta JALIU, Olimpiu MUNTEANU 10) <i>On A New Chain Planetary Transmission For Renewable Energy Systems. Part II: Virtual Prototyping And Experimental Testing</i> Radu SAULESCU, Codruta JALIU, Mircea NEAGOE, Oliver CLIMESCU Oliver</p>	<p>S ROBOTICS..6 - Room CB 017</p> <p><i>Parallel Robots – theory and simulation</i> Chairmen: Cornel BRIȘAN, Mircea NEAGOE, Calin Octavian MICLOSINA 1) <i>Rigid versus flexible link dynamic analysis of a 3DOF Delta type parallel manipulator</i> Nadia Ramona CRETESCU, Mircea NEAGOE 2) <i>Influence of Link Lengths on the Workspace of a Parallel Topology Robot</i> Calin-Octavian MICLOSINA, Zoltan-Iosif KORKA, Vasile COJOCARU 3) <i>Topological and kinematic analysis of a 6-DOF driving simulator</i> Cătălin BOANTĂ, Ciprian LĂPUSAN, Dan DUMITRIU, Veturia CHIROIU, Cornel BRIȘAN 4) <i>On The Singularities Of DELTA Parallel Robots</i> Luciana Cristina DUDICI1 , Ion SIMIONESCU 5) <i>Dynamic Simulation of a Parallel Topology Robot Operation</i> Calin-Octavian MICLOSINA, Vasile COJOCARU, Zoltan-Iosif KORKA</p>
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POLCOM 2014 - International Conference of Technology for Polymeric and Composites Products

Thursday, 23th October 15.30 -18.45

POLCOM.1. Technology for Polymeric Products Room CB 207	POLCOM.2. Technology for Composites Products Room CB 206
Moderators: Prof. PhD Eng. OPRAN Constantin Assoc. Prof. PhD Eng. TEODORESCU Horațiu	Moderators: Prof. PhD Eng. CONSTANTINESCU Dan Mihai Prof. PhD Eng. PUPĂZĂ Cristina
1. <i>Study of Some Complex Organic Materials Characteristics in Thin Films</i> - BASCHIR Laurentiu; RUSU Madalin; SAVU Valeriu; TENCIU Daniel.	1. <i>TiO₂/PCL Hybrid Layers Prepared Via Sol-Gel Dip Coating for the Surface Modification of Titanium Implants: Characterization and Bioactivity Evaluation</i> - M. Catauro, F. Bollino; F. Papale; LAMANNA Giuseppe.
2. <i>Engel branch in Romania and the anniversary of 25 years since the launch of the first machines tie barr less</i> - SORA Sergiu, ENGEL INJECTIE S.R.L.	2. <i>Preparation of bulk polycrystalline MnGe_xSb_y (x = 0.5-1.0; y = 1.5-2.2) doped with Co or Fe</i> - ION Madalin; RUSU Daniel TENCIU; Catalin ZOITA Nicolae; NOTONIER Roger; TONETTO Alain; GRIGORESCU Cristiana Eugenia - Ana.
3. <i>Mixed-mode testing for anasymmetric four-point bending configuration of polyurethane foams</i> - CONSTANTINESCU Dan Mihai; APOSTOL Dragos Alexandru; MARSAVINA Liviu; LINUL Emanoil.	3. <i>Mechanical properties of polypropylene - REOGARD 2000® composite</i> - VILCEA Elena-Janina; ION Rodica-Mariana.
4. <i>GROUP INDUSTRIAL COMPONENTS - Integration of polymeric components in assemblies and functional systems in the automotive industry</i> - BADEA Silviu, GRUPUL INDUSTRIAL COMPONENTE	4. <i>Considerations in low-temperature mechanical behavior of polymer composite materials</i> - COTAE Stefan; POPESCU Constantin; IANCAU Horatiu.
5. <i>Obtaining Holes in Plexiglas using Low Power CO₂ Laser Beam</i> - COTEATĂ Margareta; SLĂTINEANU Laurențiu; MORAR Maria-Cristina; BESLIU Irina.	5. <i>Matrix Strain Increase Factors In Unidirectional Fibers-Reinforced Laminæ</i> - TEODORESCU-DRAGHICESCU Horatiu; VLASE Sorin; MUNTEANU Renata
6. <i>ARBURG – Innovative Technologies</i> - NICOLA Luana Irina, PLASTIC TECHNOLOGY SERVICE	6. <i>Advances on the manufacturing process of nanocomposites with MWNT and nanopowders</i> - CONSTANTINESCU Dan Mihai; COSMOIU Ioana; APOSTOL Dragos Alexandru; PICU Catalin R.; SANDU Marin;
7. <i>New Polymer Assembles with Potential Use as Solid Electrolytes Type Membranes</i> - MAIOR Ioana; ALBU Ana-Maria; GABOR Raluca.	7. <i>Evaluation of shear debonding in double lap joints of sandwich type</i> - SANDU Marin; CONSTANTINESCU Dan Mihai; APOSTOL Dragos Alexandru; SANDU Adriana; STUPARU Florin.
8. <i>Composites – New Challenges & New Features</i> - GRIGORESCU Catalin - SARTOROM IMPEX SRL, ZWICK ROELL GROUP	8. <i>A Model Regarding Material Removal Using FEM at Ultrasonic Aided EDM of Metal Matrix Composites</i> - PUPAZA Cristina ; GHICULESCU Daniel; OPRAN Constantin Gheorghe.
9. <i>Modelling of Residual Stresses in Dental Restorative Polymer Based Materials</i> - LAMANNA Giuseppe; SEPE Raffaele.	9. <i>Optimization of the drill angle of attack in composite processing</i> - OCNĂRESCU Constantin; OCNĂRESCU Maria.
10. <i>Additive Manufacturing for Rapid Product Development, with Industrial and Medical Applications</i> - BALC Nicolae, Technical University of Cluj-Napoca	
11. <i>Innovative Design of Polymeric Systems used in Manufacturing of Gear Pumps</i> - OPRAN Constantin Gheorghe; PRICOP Mircea; TEODORU Constantin.	

Friday, 24th October

POLCOM.1. Technology for Polymeric Products Room CB 207	POLCOM.2. Technology for Composites Products Room CB 206
Moderators: Prof. PhD Eng. OPRAN Constantin Prof. PhD Eng. NEDELCU Dumitru	Moderators: Prof. PhD Eng. JIGA Gabriel Prof. PhD Eng. STOICA-GUZUN Anicuta
1. <i>Roughness of the Revolution Surfaces Processed by Honing</i> - NEDELCU Dumitru; PRUTEANU Octavian; CARAUSU Constantin.	1. <i>Numerical modeling of the impact behavior of a polyurethane foam specimen</i> - JIGA Gabriel; STAMIN Ștefan.
2. <i>Caveats in Modeling the Elasto-Plastic Behavior of Materials to Alternate Loads</i> - Andrei CRAIFALEANU, Iolanda-Gabriela CRAIFALEANU	2. Some considerations concerning the analysis of drilling process - MANOLE Vasile MUNTEANU Adriana; COTEATĂ Margareta; SLĂTINEANU Laurențiu.
3. <i>Ultrasonic System Design and Calculation for Polymer Metallization</i> - NITOI Dan, AMZA Gheorghe, AMZA Cătălin, APOSTOLESCU Zoia, OPRAN Constantin	3. <i>Sheet Moulding Compounds Of Large Auto Body Parts Made From Polymeric Composite</i> - TEODORESCU DRAGHICESCU Florin; OPRAN Constantin Gheorghe
4. <i>Energy efficiency lubricants - important parameter in reducing consumption</i> - NĂSTASE Victor, LUBEXPERT ROMANIA SRL	4. <i>Failure of an Advanced Five Layers RT800 Composite</i> - GHEORGHE Vasile; TEODORESCU-DRAGHICESCU Florin; IONESCU Dora Raluca
5. <i>Modeling of Diffusion with Bessel Functions</i> - Ion RIZA; Marius Constantin POPESCU.	5. <i>Green synthesis of silver-bacterial cellulose composites using turmeric powder extract</i> - Isopencu Gabriela Marta Stroescu; Anicuta Stoica-Guzun; Sorin Ion Jinga; Mariana Ferdes.
6. <i>How to passing audit Wittmann Battenfeld elements</i> - NESTOR Bogdan, WITTMANN BATTENFELD SRL - Romania	6. <i>The automotive vibrations effect on the comfort degree determined at the level of foot-shoe composite structure</i> - BARITZ Mihaela; BALCU Ioan; COTOROS Diana; STANCIU Anca.
7. <i>Heating Rate Influence on the Behavior of "Liquid Wood"</i> - NEDELCU Dumitru, "GH.ASACHI" Technical University of Iași, Romania	7. <i>Microscopic analyze of insoles composite structures behavior under water immersion, temperature variation and saline</i> - BARITZ Mihaela; COTOROS Diana; DUMITRESCU Lucia.
8. <i>ELJ Automotive & ALSECA - Technologies and alternative values</i> - LUNESCU Dragos, ELJ Automotive S.R.L.	8. <i>Experimental Approaches Regarding the Elastic Properties Bending of Roving</i> - COTOROS Diana; STANCIU Anca; BARITZ Mihaela; CRISTEA Luciana.
9. <i>BASF Performance Materials- Solutions for the Automotive Industry</i> - COJOCARU Ovidiu, BASF SRL	9. <i>Microscopic Analysis Following Bending of Roving Type Composite Material</i> - COTOROS Diana; STANCIU Anca; BARITZ Mihaela; CRISTEA Luciana.
10. <i>Cloud community for polymeric and composites simulations products</i> - Alexandra RAICU; Gabriel RAICU; Constantin OPRAN.	10. <i>Research Regarding Adaptive Design of Gear Pumps used for Polymeric Products Engineering</i> - OPRAN Constantin Gheorghe; PRICOP Mircea; TEODORU Constantin.