

PROGRAM

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University Politehnica Timișoara



Engineering Faculty of Hunedoara

in cooperation with

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Materials Science Session

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Electrical Engineering Session

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Video-conference Session

Muscalagiu Ionel, Politehnica University of Timisoara

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Panoiu Manuela, Politehnica University of Timisoara
Pinca-Bretotean Camelia, Politehnica University of Timisoara
Popa Gabriel Nicolae, Politehnica University of Timisoara
Vilceanu Lucia, Politehnica University of Timisoara
Zhang Lijun, Military Economics Academy of Wuhan
Zhang Tao, Military Economics Academy of Wuhan

May 25, 2016	
14:00	Registration of participants
20:00	Welcome Reception

May 26, 2016		
8:00	Registration of participants	
9:00	Opening Ceremony (F0-1)	Chairman: LEMLE Ludovic Dan
		PĂNOIU Caius University Politehnica Timișoara, Romania
		XI Yang Eurosport DHS S.A. Hunedoara, Romania
		DUAN Zhiyun Military Economics Academy of Wuhan, China
		DRĂGAN Florin University Politehnica Timișoara, Romania
		HĂRĂU Carmen Parliament of Romania
		ARION Viorel County Municipality of Hunedoara, Romania
		STĂNESCU Vetuța Hunedoara County Council, Romania
		LATINOVIC Tihomir University of Banja Luka, Republic of Srpska, Bosnia and Herzegovina
		PETRESCU Doru Ion CEO Arcelor Mittal, Romania
9:30	Group Photo	
9:45	Coffee Break	
10:30	Plenary session (F0-1)	Chairman: BORDEAȘU Ilare
		10:30-11:00 PETRESCU Doru Ion CEO Arcelor Mittal
		11:00-11:30 POPOVICIU Mircea Octavian Academy of Romanian Scientists
11:30-12:00 ILCA Ioan Academy of Technical Sciences of Romania		
12:00	Lunch – Rusca Restaurant	

May 26, 2016		
14:00	Materials Science Session (F1-8)	<p>Chairman: ARDELEAN Erika</p>
		<p>14:00-14:15 Speaker: Mircea Octavian POPOVICIU Co-authors: L M Micu, I Bordeasu and C Ghera Title: Research upon cavitation erosion resistance of X2CrNiMoN22-5-3 stainless steel hardened in different ways</p>
		<p>14:15-14:30 Speaker: Iare BORDEAŞU Co-authors: M O Popoviciu, L C Salcianu, C Ghera, L M Micu, R Badarau, A Iosif and L D Pirvulescu Title: A new concept for stainless steels ranking upon the resistance to cavitation erosion</p>
		<p>14:30-14:45 Speaker: FLORI Mihaela Co-authors: V Putan and L Vilceanu Title: Using the heat flux plate method for determining the heat conductivity of building materials</p>
		<p>14:45-15:00 Speaker: SOCALICI Ana Co-authors: E Ardelean, L Pascu and V Puţan Title: Experiments on composites meant for making brake pads for the rolling stock</p>
		<p>15:00-15:15 Speaker: ANDREI Victor Co-authors: N Constantin, C Dobrescu and M Hritac Title: Experimental research on the behavior of the pneumatic transport fine-grained ore</p>
		<p>15:15-15:30 Speaker: DRAGOMIRESCU Alina Co-authors: N Constantin, A Ştefan and V Manoliu Title: Advanced study of thermal behavior of CSZ comparing with the classic YSZ coating</p>
		<p>15:30-15:45 Speaker: CÂNDA Letiţia Co-authors: E Ardelean Title: Preliminary experimental research for silver recovery from radiographic films</p>
15:45-16:00	<p>Speaker: JOSAN Ana Co-authors: C Pinca-Bretotean Title: Using the antiadherence paints to manufacturing of the moulds intended for iron castings</p>	
16:00	Coffee break	
16:30	Materials Science Session (F1-8)	<p>Chairman: SOCALICI Ana</p>
		<p>16:30-16:45 Speaker: MAGAON Miruna Co-authors: S Şerban and T Hepuţ Title: Research on the reduction of the hydrogen content in steels treated in vacuum</p>
16:45-17:00	<p>Speaker: ARDELEAN Erika Co-authors: A Socalici, M Ardelean, S Şerban and M Vătăşescu Title: The analysis of the steel deoxidation process in a vacuum installation</p>	
20:00	Conference Dinner – Rusca Restaurant	

		May 26, 2016	
14:00	Mechanical Engineering Session (F1-10)	Chairman: KISS Imre	
		14:00-14:15	Speaker: PEPA Damaschin Co-authors: C Ursoniu, R Gillich and V Campian Title: <i>Water hammer effect to the Francis turbines from hydro arrangements without surge tank</i>
		14:15-14:30	Speaker: URSONIU Cosmin Co-authors: D Pepa, Tufoi and R Gillich Title: <i>The influence of stiffening ribs on the natural frequencies of butterfly valve disks</i>
		14:30-14:45	Speaker: PINCA-BRETOTEAN Camelia Co-authors: A L Crăciun, I D Dragoş and A Josan Title: <i>Tribological properties of nonasbestos brake pad material by using coconut fiber</i>
		14:45-15:00	Speaker: BUDIUL-BERGHIAN Adina Co-authors: T Vasiu and C Abrudean Title: <i>Experiments assigned to determine the acceleration of 8000 kn shear laboratory model elements</i>
		15:00-15:15	Speaker: MIKLOS Imre Co-authors: C Alic and C Miklos Title: <i>Dynamic simulation of mechanism, with crossover arms, for window manipulation in the road vehicles doors</i>
		15:15-15:30	Speaker: RAȚIU Sorin Co-authors: V Alexa, I Kiss and V Cioată Title: <i>Experimental determination of the filling coefficient for an aspirated spark-ignition engine</i>
		15:30-15:45	Speaker: ALEXA Vasile Co-authors: S Rațiu, I Kiss and V Cioată <i>Research the distribution torque in symmetrical and asymmetrical rolling process</i>
16:00	Coffee break		
16:30	Mechanical Engineering Session (F1-10)	Chairman: RAȚIU Sorin	
		16:30-16:45	Speaker: BIRTOK-BĂNEASĂ Corneliu Co-authors: T Hepuț and S Rațiu Title: <i>Influence of intake air temperature on internal combustion engine operation</i>
		16:45-17:00	Speaker: KISS Imre Co-authors: V Cioată, V Alexa and S Rațiu Title: <i>Investigations on the selection of friction materials destined to railway vehicles applications</i>
20:00	Conference Dinner – Rusca Restaurant		

May 26, 2016		
14:00	Electrical Engineering Session (F1-1)	<p>Chairman: POPA Gabriel</p>
		<p>14:00-14:15 Speaker: ERDEI Zoltan Co-authors: M Horgoş and R Mureşan Title: <i>Frequency behavior of the Residual Current Devices</i></p>
		<p>14:15-14:30 Speaker: DEACONU Sorin Co-authors: LN Tutelea, G Popa, C Barz and T Latinovic Title: <i>FEM Analysis of an Single Stator Dual PM Rotors Axial Synchronous Machine</i></p>
		<p>14:30-14:45 Speaker: CUNȚAN Corina Co-authors: I Baciú Title: <i>Single-phase Frequency Converter</i></p>
		<p>14:45-15:00 Speaker: POP-VĂDEAN Adina Co-authors: PP Pop, C Barz and T Latinovic Title: <i>Electromagnetic harvesting as a way to power wireless energy monitoring sensors in the built environment</i></p>
		<p>15:00-15:15 Speaker: CHIVER Olivian Co-authors: L Neamt, E Pop, M Horgos, Z Erdei, A Pop-Vadean and PP Pop Title: <i>Single-phase PM synchronous motor simulation with Matlab/Simulink</i></p>
		<p>15:15-15:30 Speaker: CHIVER Olivian Co-authors: L Neamt and E Popa Title: <i>Electrodynamic Forces on the Medium Voltage SF6 Switch Disconnecter Insulators based on FEA</i></p>
		<p>15:30-15:45 Speaker: BADEA Andra Co-authors: G Proştean, M Tămăşilă, A Vârtosu Title: <i>Collaborative decision-making on wind power projects based on AHP method</i></p>
15:45-16:00	<p>Speaker: PROŞTEAN Gabriela Co-authors: S Volker and A Hutanu Title: <i>Change Management Methodologies trained for Automotive Infotainment Projects</i></p>	
16:00	Coffee break	
16:30	Electrical Engineering Session (F1-1)	<p>Chairman: DEACONU Sorin</p>
		<p>16:30-16:45 Speaker: RUSU-ANGHEL Stela Co-authors: - Title: <i>Experimental Research on Mathematical Modeling of Clinker Furnace in Cement Plants</i></p>
		<p>16:45-17:00 Speaker: RUSU-ANGHEL Stela Co-authors: - Title: <i>A New Concept for Reactive Power Compensation in Electric Traction Railway (27 kV, 50 Hz)</i></p>
17:00-17:15	<p>Speaker: HAȚIEGAN Cornel Co-authors: MD Nedeloni, I Pădureanu, MR Jurcu, S Trocaru, O Bădescu, D Micliuc and L Nedeloni Title: <i>Vibration Analysis of a Hydro generator for different operating regimes</i></p>	

		17:15-17:30	<p>Speaker: HAȚIEGAN Cornel Co-authors: CP Chioncel, E Răduca, CO Hamat, I Pădureanu, MR Jurcu, D Bordeasu, S Trocaru, O Bădescu and IM Terfăloagă Title: <i>Determining the operating performance through electrical measurements of a Hydro generator</i></p>
		17:30-17:45	<p>Speaker: IAGĂR Angela Co-authors: G Popa and C Diniș Title: <i>Experimental analysis of direct current corona discharge</i></p>
		17:45-18:00	<p>Speaker: DINIȘ Corina Co-authors: G Popa and A Iagăr Title: <i>Analysis of Synchronous and Induction Generators Used at Hydroelectric Power Plant</i></p>
		18:00-18:15	<p>Speaker: POPA Gabriel Co-authors: C Diniș, A Iagăr and I Popa Title: <i>An Experimental Comparative Analyse Between Three Low Capacity PLCs</i></p>
		18:15-18:30	<p>Speaker: POPA Gabriel Co-authors: I Popa and C Diniș Title: <i>Considerations on Transducers with Concentric Cylindrical Electrodes Used in a Continuous Measurement of Liquids Level</i></p>
		18:30-18:45	<p>Speaker: ANGHEL-DRUGĂRIN Cornelia Co-authors: M Lolea and S Dzițac Title: <i>About the assessment of the level at electromagnetic field exposure in the public domain</i></p>
		18:45-19:00	<p>Speaker: ANGHEL-DRUGĂRIN Cornelia Co-authors: M Lolea and S Dzițac Title: <i>About the assessment of the level at electromagnetic field exposure in the public domain</i></p>
		19:00-19:15	<p>Speaker: VASAR Cristian Co-authors: I Szeidert, I Filip and O Proștean Title: <i>Issues Regarding a Hybrid Micro Grid Laboratory Setup</i></p>
		19:15-19:30	<p>Speaker: VASAR Cristian Co-authors: O Proștean, I Filip and I Szeidert Title: <i>Experimental Analysis of a Wind Power Generator</i></p>
20:00	Conference Dinner – Rusca Restaurant		

May 26, 2016		
14:00	Computers Engineering Session (F1-2)	Chairman: BARZ Cristian
		14:00-14:15 Speaker: LATINOVIC Tihomir Co-authors: S Kalabic, C Barz, A Pop-Vadean, PP Pop Title: Preventive collision neural network sensing system with optimization of processing radar system for the protection of car crash
		14:15-14:30 Speaker: LATINOVIC Tihomir Co-authors: S Kalabic, C Barz, A Pop-Vadean, PP Pop Title: Determining the coordinates and location unknown sources radiation EMT method fuzzy three spheres and fuzzy tori
		14:30-14:45 Speaker: JALBA Klaus Co-authors: M Kaul and R Diekmann Title: Intelligent clutch control with incremental encoder to improve wear issues of an intercept pendulum in Real Time
		14:45-15:00 Speaker: JALBA Klaus Co-authors: P Konold, I Rapp and C Mann Title: Cooperation between humans and robots in fine assembly
		15:00-15:15 Speaker: MOLDOVEANU Alexandru Co-authors: A Galie, M Moldoveanu, F Popa, E Tica and B Popa Title: Assessment of small hydropower potential for the Olanesti River using advanced software techniques
		15:15-15:30 Speaker: GHIORMEZ Loredana Co-authors: O Prostean, M Panoiu and C Panoiu Title: GUI for Studying the Parameters Influence of the Electric Arc Model for a Three-Phase Electric Arc Furnace
		15:30-15:45 Speaker: GHIORMEZ Loredana Co-authors: I Baciu Title: Study for the Electric Arc of Alternative Current at the Single Phase Welding Machine Using the Matlab/Simulink Environment
		15:45-16:00 Speaker: PĂNOIU Manuela Co-authors: C Pănoiu, L Ghiormez, R Rob Title: Study about the performances of Artificial Neural Networks used in current prediction of nonlinear loads
16:00	Coffee break	
16:30	Computers Engineering Session (F1-2)	Chairman: PĂNOIU Manuela
		16:30-16:45 Speaker: ABRUDEAN Cristian Co-authors: - Title: A Practical Implementation of a Keyless Signature Infrastructure System
		16:45-17:00 Speaker: BARZ Cristian Co-authors: T Latinovic, S Deaconu, D Preradović, P P Pop and A Pop-Vadean Title: Using PLC Moeller in automation of artesian fountains

		17:00-17:15	Speaker: PĂNOIU Caius Co-authors: R Rob Title: Programmable Outdoor LED Display
		17:15-17:30	Speaker: PĂNOIU Caius Co-authors: R Ror and O Tirian Title: Temperature Controlling System Using Embedded Equipment
		17:30-17:45	Speaker: LUNG Claudiu Co-authors: A Buchman and S Sabou Title: Smart city sensors network based on IoT technology
		17:45-18:00	Speaker: LUNG Claudiu Co-authors: I Orha and S Oniga Title: Monitoring system in smart home for daily life assistance
		18:00-18:15	Speaker: BERDIE Adela Co-authors: M Osaci and C Barz Title: A datafit approach concerning to the data processing
		18:15-18:30	Speaker: MUSCALAGIU Ionel Co-authors: CG Muscalagiu and DM Muscalagiu Title: The curving calculation of a mechanical device attached to a multi-storey car park
		18:30-18:45	Speaker: GHERMAN Laurian Co-authors: M Pearsică, I Cîrciu and C Rotaru Title: Two fluxes multistage induction coilgun
20:00	Conference Dinner – Rusca Restaurant		

May 26, 2016		
14:00	Fundamental Sciences Session (F0-1)	<p>Chairman: JIANG Yiwen</p>
		<p>14:00-14:15 Speaker: ERCEG Tamara Co-authors: D Kojic, N Vukic, V Teofilovic, I Ristic, J Budinski-Simendic and V Aleksic Title: <i>The catalytic microwave synthesis of biodegradable polyester polyols based on castor oil and l-lactide</i></p>
		<p>14:15-14:30 Speaker: BENEA Laura Co-authors: - Title: <i>Capture and storage of carbon dioxide: a method for countering climatic changes</i></p>
		<p>14:30-14:45 Speaker: OSACI Mihaela Co-authors: M Cacciola Title: <i>Specific power loss in superparamagnetic hyperthermia for nanofluid versus composite</i></p>
		<p>14:45-15:00 Speaker: JITIAN Simion Co-authors: - Title: <i>Ellipsometrical determination of thickness and optical constants during crystals growing</i></p>
		<p>15:00-15:15 Speaker: POPOVICI Petre Co-authors: S Roşu and M Frăţilă Title: <i>Atoms as rigid rotor model for nucleus and electrons. Explaining Periodic Table and the anomalies</i></p>
		<p>15:15-15:30 Speaker: POP Paul Petrica Co-authors: A Pop-Vadean, C Barz and T Latinovic Title: <i>Transdisciplinary integration and interfacing software in mechatronic system for carbon sequestration and harvesting energy in the agricultural soils for rewarding farmers through green certificates</i></p>
		<p>15:30-15:45 Speaker: DOBRNJAC Sanja Co-authors: J Penavin-Škundrić and L Vasiljević Title: <i>Removal of fatty acids by adsorption process</i></p>
<p>15:45-16:00 Speaker: LEMLE Ludovic Dan Co-authors: FL Pater Title: <i>On the L^∞-uniqueness of diffusion operators</i></p>		
16:00	Coffee break	
16:30	Fundamental Sciences Session (F0-1)	<p>Chairman: PATER Lucian Flavius</p>
		<p>16:30-16:45 Speaker: RODIC Vesna Co-authors: - Title: <i>Legislation in the Republic of Serbian Mobbing and Member States of the European Union</i></p>
		<p>16:45-17:00 Speaker: BENEA Marius Co-authors: OD Benea Title: <i>The Integration of the Occupational Stress into Organizational Management</i></p>
<p>17:00-17:15 Speaker: JIANG Yiwen Co-authors: Z Duan, J Zhu and J Yu Title: <i>An international comparison on the performance of defence expenditure</i></p>		
20:00	Conference Dinner – Rusca Restaurant	

May 27, 2016		
10:00	Video-conference Session (F0-1)	Chairman: MUSCALAGIU Ionel
		10:00-10:15 Speaker: UNGUREANU Nicoleta Co-authors: V Vlăduț and S Șt Biriș Title: FEM modeling of soil behavior under compressive loads
		10:15-10:30 Speaker: DRĂGHICI Silviu Co-authors: I Hălălăe Title: Simulation study of the characteristic functions associated of a LDPC code using Scilab programming environment
		10:30-10:45 Speaker: DRĂGHICI Silviu Co-authors: O Proștean, E Răduca, C Hațiegan, I Hălălăe and I Pădureanu Title: Study regarding the evolution density of messages and the characteristic functions associated of a LDPC code
		10:45-11:00 Speaker: DRAGNA Claudia Co-authors: I Ioana and N Constantin Title: EAF Optimal Managing Elements
		11:00-11:15 Speaker: DRAGNA Claudia Co-authors: I Ioana and N Constantin Title: Elements of EAF Automation Processes
		11:15-11:30 Speaker: NEDELUCU Otilia Co-authors: C Salisteanu, B Popa, F Popa, B Salisteanu, C Oprescu and V Dogaru Title: The modified nodal analysis method applied to the modeling of the thermal circuit of an asynchronous machine
		11:30-11:45 Speaker: POPA Bogdan Co-authors: AV Paraschivescu, K Ahmad-Rashid and F Popa Title: Small Hydropower Plant's standardization, between myth and reality
		11:45-12:00 Speaker: POPA Bogdan Co-authors: C Antal, F Popa, M Mos and D Tigan Title: Advanced concepts and solutions for geothermal heating applied in Oradea, Romania
		12:00-12:15 Speaker: LAZĂR Alexandra Co-authors: R Buzduga and N Constantin Title: Comparative analysis of technological options for the aggregate of blowing inert gases into the steel ladle, produced and used in Romania
		12:15-12:30 Speaker: CHIONCEL Cristian Paul Co-authors: GO Tirian, N Gillich and C Hatiegan Title: Overview of the wind energy market and renewable energy policy in Romania
12:30-12:45 CHIONCEL Cristian Paul Co-authors: GO Tirian, N Gillich and C Hatiegan Title: Influence of the solar radiation in the photovoltaic module efficiency. Case study: south west Romania		