



## 5<sup>th</sup> International Conference of Mechanical Engineering

**ICOME 2019**

**24-25 October 2019**

**Scientific papers schedule**

***Section: Automotive, Transportation and Traffic***

<b>Thursday 24<sup>th</sup> of October 2019 - Papers presentation</b> <i>16<sup>00</sup> -17<sup>20</sup></i>		
<b>Chairman: Associate Professor, Dr. Eng. Petre Cristian COPILUSI</b> <b>Lecturer Dr. Eng. Mario TROTEA</b> <b>Hall: BA 138</b>		
<b>16<sup>00</sup>- 16<sup>20</sup></b>	Oxygen Sensor Testing for Automotive Applications	Dragos TUTUNEA, Ilie DUMITRU, George GHERGHINA, Laurentiu RACILA, Ionut GEONEA, Cristina ROTEA
<b>16<sup>20</sup>- 16<sup>40</sup></b>	About the Vibration and Dynamics of a Bus Chassis	Ionuț GEONEA, Adrian Sorin ROSCA, Racila LAURENTIU, PAUL RINDERU, Ionica VALERIU
<b>16<sup>40</sup>- 17<sup>00</sup></b>	Development and Analysis of a Frame for Formula Student Competition	Mihai PASA, Ilie DUMITRU, Lucian MATEI, Laurentiu RACILA
<b>17<sup>00</sup>- 17<sup>20</sup></b>	Chassis Monopost Reconstruction through Virtual Prototyping	Ilie DUMITRU, Gigel PARASCHIV, Lucian MATEI, Laurentiu RACILA
<b>17<sup>20</sup>- 17<sup>40</sup></b>	<i>Coffee break</i>	
<b>Thursday 24<sup>th</sup> of October 2019 - Papers presentation</b> <i>17<sup>40</sup>- 19<sup>00</sup></i>		
<b>Chairman: Associate Professor Dr. Eng. Ionuț GEONEA</b> <b>Lecturer Dr. Eng. Alina Elena ROMANESCU</b> <b>Hall: BA 138</b>		
<b>17<sup>40</sup>- 18<sup>00</sup></b>	Dynamic Analysis of the Structure of Automobile Components, Obtained by Powder Metallurgy	Anca DIDU, Nicolae DUMITRU, Cristina Ileana PASCU, Violeta DUMITRU
<b>18<sup>00</sup>- 18<sup>20</sup></b>	Developments of Audi Space Frame Technology for Automotive Body Aluminum Construction	Gabriela Monica PANĂ,
<b>18<sup>20</sup>- 18<sup>40</sup></b>	Experimental Determinations on Mechanical Properties for Polyester-Glass Fiber Composite Materials	Gabriela Monica PANĂ



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<b>Chairman: Professor Dr. Eng. Dumitru BOLCU</b> <b>Lecturer Dr. Eng. Stefanita CIUNEL</b> <b>Hall: BA 104</b>		
<b>16<sup>00</sup>– 16<sup>20</sup></b>	Studies about In Situ and Virtual of the Musculoskeletal Behaviour of the Cranio-Cervical Complex of Dummy Car Crash Tests	Stefanita CIUNEL, Bebe TICĂ, Cristian KLEMENT
16 <sup>20</sup> – 16 <sup>40</sup>	Aspects of Side Impact Research	Stefanita CIUNEL, Cristian KLEMENT, Mihai-Constantin CLINCIU
<b>16<sup>40</sup>– 17<sup>00</sup></b>	Study on the Energy Parameters of a Vehicle while Driving Using DEWESOFT-101 Minitaur	Alexandru OPRICA, Alexandru DIMA, Bogdan FLORESCU, Ilie DUMITRU
<b>17<sup>00</sup>– 17<sup>20</sup></b>	An Applied Study on the Influence of the Vehicle Body Shape on Air Resistance	Oana Victoria OȚĂT, Ilie DUMITRU, Victor OȚĂT, Dragoș TUTUNEA, Lucian MATEI
<b>17<sup>20</sup>– 17<sup>40</sup></b>	<i>Coffee break</i>	
<b><i>Thursday 24<sup>th</sup> of October 2019- Papers presentation</i></b> <b><i>17<sup>40</sup>– 19<sup>00</sup></i></b>		
<b>Chairman: Associate Professor Dr. Eng. Mihaela BOGDAN</b> <b>Lecturer Dr. Eng. Augustin CONSTANTINESCU</b> <b>Hall: BA 104</b>		
<b>17<sup>40</sup>– 18<sup>00</sup></b>	Performance of Diaphragm Elastic Elements in ABS	Walter Wilhelm THIERHEIMER, Cătălin ALEXANDRU, Alexandru THIERHEIMER, Daniel CRAUCIUC
<b>18<sup>00</sup>– 18<sup>20</sup></b>	Analytical Calculation, Numerical Structural Analysis and Design Optimization of the Diaphragm Spring of a Mechanical Clutch	Mario TROTEA, Augustin CONSTANTINESCU, Loreta SIMNICEANU
<b>18<sup>20</sup>– 18<sup>40</sup></b>	Kinematic and Dynamic Determinations of the Movement of the Car when Moving between Cones	Robert Emil SIMNICEANU, Dumitru NEAGOE, Mario TROTEA, Augustin CONSTANTINESCU,