

## TECHNICAL PROGRAM OVERVIEW

|                  |     |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|------------------|-----|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------|----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------|---------------------------------------------|--|
| Time<br>Day      |     | Tuesday,<br>May 24, 2011                | Wednesday,<br>May 25, 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 7 <sup>00</sup>  | 15' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         | Breakfast, Hotel Restaurant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 8 <sup>00</sup>  | 15' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         | Registration to ModTech2011 - Hotel Main Hall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 9 <sup>00</sup>  | 15' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 10 <sup>00</sup> | 15' |                                         | <b>OPENING CEREMONY, WELCOME ADDRESSES</b><br><br><u>President of MofTech2011</u><br>Assoc. Prof. Sergiu Mazuru, Ph.D. - Technical University of Chisinau, Republic of Moldova<br><br><u>Presidents</u><br>Prof. Laurentiu Slatineanu, Ph. D. – „Gheorghe Asachi” Technical University of Iasi, Romania<br>Research Prof. Olivera Milosevic, Ph.D. - Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Belgrade, Serbia<br><br><b>PLENARY SESSION</b><br>Chairman, Prof. Dumitru Nedelcu, Ph.D.<br>„Gheorghe Asachi” Technical University of Iasi, Romania<br><br><b>Precessional planetary transmission: gear teeth generation technology dimensional inspection and applications</b><br>Prof. Ion Bostan, Ph.D. – Technical University of Chisinau, Republic of Moldova<br><br><b>Au advanced technology for manufacturing by cold plastic deformation the bearings ring</b><br>Prof. Constantin Carausu, Ph.D. - „Gheorghe Asachi” Technical University of Iasi, Romania<br><br><b>Proposal concerning the establishment of discussion and collaboration roundtable about the critical themes related to innovation and development</b><br>Dr. Claudio Cavalieri - Italy |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 11 <sup>00</sup> | 15' |                                         | Coffee break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 12 <sup>00</sup> | 15' |                                         | <b>Ensuring independence in redundant designs</b><br>Prof. António M. Gonçalves-Coelho, Ph.D. - Nova University, Portugal<br><br><b>Aplication of evapotranspiration bed for urban sanitation in the tropics and other special conditions</b><br>Prof. Sarwoco Mangkoedihardjo, Ph.D. - Sepuluh Nopember Institute of Technology, Indonesia<br><br><b>An investigation of upsetting of bimetallic metals</b><br>Prof. Cenk Misirli, Ph.D. - Trakya University, Turkey<br><br><b>Non classical methods in modeling of complex systems</b><br>Dr. Andrzej Wrobel, Silesian University of Technology, Poland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 13 <sup>00</sup> | 15' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 14 <sup>00</sup> | 15' | Coffee & Lunch break - Hotel Restaurant |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 15 <sup>00</sup> | 15' | Registration<br>to<br>ModTech 2011      | <b>Section 1</b><br>Hotel Conference<br>Room                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Section 2</b><br>Room 1                       | <b>Section 3</b><br>Room 1        | <b>Section 4</b><br>Hotel Conference<br>Room                   | <b>Section 5</b><br>Room 2              | <b>Section 6</b><br>Room 3                                                 | <b>Section 7</b><br>Room 2             | <b>Section 8</b><br>Room 3                                           |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         | Coffee break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 16 <sup>00</sup> | 15' |                                         | Registration<br>to<br>ModTech 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Section 1</b><br>Micro and Nano<br>Technology | <b>Section 2</b><br>Manufacturing | <b>Section 3</b><br>Automation and<br>Flexible<br>Technologies | <b>Section 4</b><br>CAD/CAM<br>/CAE/CAX | <b>Section 5</b><br>Materials, processes<br>and innovative<br>technologies | <b>Section 6</b><br>Project Management | <b>Section 7</b><br>Welding and Non-<br>Conventional<br>Technologies | <b>Section 8</b><br>Forming<br>Technologies |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 17 <sup>00</sup> | 15' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Registration<br>to<br>ModTech 2011               |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 18 <sup>00</sup> | 15' | Registration<br>to<br>ModTech 2011      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 19 <sup>00</sup> | 15' |                                         | Registration<br>to<br>ModTech 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 20 <sup>00</sup> | 15' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Registration<br>to<br>ModTech 2011               |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 21 <sup>00</sup> | 15' | Registration<br>to<br>ModTech 2011      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
| 22 <sup>00</sup> | 15' |                                         | Registration<br>to<br>ModTech 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 30' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 45' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                   |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |
|                  | 60' |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  | Dinner - Hotel Restaurant         |                                                                |                                         |                                                                            |                                        |                                                                      |                                             |  |

| Time/<br>Day                   | Thursday<br>May 26, 2011                  |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      | Friday<br>May 27, 2011                            |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
|--------------------------------|-------------------------------------------|----------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------|--------------------------------------|---------------------------------------------------|----------------------------|------------------------------------------------------|-------------------------------|---------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------|--------------------------------------|
| 15'<br>30'                     | Breakfast - Hotel Restaurant              |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      | Breakfast - Hotel<br>Restaurant                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 7 <sup>00</sup><br>45'<br>60'  |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 15'<br>30'                     |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 8 <sup>00</sup><br>45'<br>60'  |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 15'<br>30'                     | Section 1<br>Hotel Conference<br>Room     | Section 2<br>Room 1        | Section 3<br>Room 1                                  | Section 4<br>Hotel Confere<br>Room | Section 5<br>Room 2                                                 | Section 6<br>Room 3                | Section 7<br>Room 2                                           | Section 8<br>Room 3                  | General Miting of<br>MODTECH<br>Iasi-Romania      |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 15'<br>30'                     |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      | Closing Ceremony<br>Scientific Awards<br>Ceremony |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 10 <sup>00</sup><br>45'<br>60' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      | Coffee break                                      |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 11 <sup>00</sup><br>15'<br>30' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      | Section 1<br>Micro and Nano<br>Technology         | Section 2<br>Manufacturing | Section 3<br>Automation and Flexible<br>Technologies | Section 4<br>CAD/CAM /CAE/Cax | Section 5<br>Materials, processes and<br>innovative<br>technologies | Section 6<br>Project Management | Section 7<br>Welding and<br>Non-Conventional<br>Technologies | Section 8<br>Forming<br>Technologies |
| 12 <sup>00</sup><br>15'<br>30' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 13 <sup>00</sup><br>45'<br>60' | Coffee & Lunch break - Hotel Restaurant   |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 14 <sup>00</sup><br>15'<br>30' | Section 1<br>Micro and Nano<br>Technology | Section 2<br>Manufacturing | Section 3<br>Automation and Flexible<br>Technologies | Section 4<br>CAD/CAM<br>/CAE/Cax   | Section 5<br>Materials, processes<br>and innovative<br>technologies | Section 6<br>Project<br>Management | Section 7<br>Welding and Non-<br>Conventional<br>Technologies | Section 8<br>Forming<br>Technologies |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 15 <sup>00</sup><br>30'        |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 16 <sup>00</sup><br>45'<br>60' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      | Trip                                              |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 17 <sup>00</sup><br>15'<br>30' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 18 <sup>00</sup><br>15'<br>30' | Galla Dinner - Hotel Restaurant           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 19 <sup>00</sup><br>15'<br>30' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 20 <sup>00</sup><br>45'<br>60' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 21 <sup>00</sup><br>15'<br>30' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |
| 22 <sup>00</sup><br>45'<br>60' |                                           |                            |                                                      |                                    |                                                                     |                                    |                                                               |                                      |                                                   |                            |                                                      |                               |                                                                     |                                 |                                                              |                                      |

**SECTION 1 & SECTION 4**  
**Micro and Nano Technologies & CAD/CAM/CAE/Cax**

**Hotel Conference Room**

**Section 1**

Chair: Assoc. Prof. Sergiu Mazuru, Ph.D  
 Co-Chair: Lecturer Ciprian Ciofu, Ph.D

**Section 4**

Chair: Prof. Valentin Dulgheru, Ph.D.  
 Co-Chair: Prof. Gavril Musca, Ph.D.

| Wednesday<br>May 25 | Papers & Authors<br>Section 1                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00               | RESEARCH ON THE OPTIMIZATION OF INJECTION MOLDING PROCESS USING NUMERICAL SIMULATIONS<br><i>Balota Doru Andre, Vlase Aurelian, Patrascu Alexandru, Gheorghe Tudor Vlad</i>        |
|                     | PROCESSING OF ACTIVE PART OF A PLASTIC INJECTION MOLD BY ELECTRICAL EROSION WITH SOLID ELECTRODE<br><i>Traian Buidoş, Iulian Stănăşel</i>                                         |
|                     | ULTRASONIC ACTIVATION OF MICROINJECTION MOLDING<br><i>Iancu Şerban, Daniel Stan, Tudor Iclănzan, Nicuşor Alin Sîrbu</i>                                                           |
|                     | TECHNIQUES TO OBTAIN DIFFERENT MOLDING RUNNERS DIES USED IN MICRO-INJECTION MOLDING<br><i>Iancu Şerban, Daniel Stan, Daniel Rotar, Vlad Țuț</i>                                   |
|                     | RESEARCH REGARDING MELT FLOW IN MICROINJECTION MOULDING OF POLYMERIC PRODUCTS<br><i>Tudor Vlad Gheorghe, Aurelian Vlase, Doru Andrei Balota, Alexandru Patrascu</i>               |
|                     | MICROSTRUCTURAL STUDY OF THE FRICTION STIR WELDED JOINTS ON SOME ALUMINUM ALLOYS<br><i>Diana Gheorghiu, Costel Roman, Romeu Chelariu</i>                                          |
|                     | CONTRIBUTIONS TO ESTIMATING AVERAGE LIFETIME OF AN AUTOMOBILE<br><i>Florian Ivan, Sorin Ilie</i>                                                                                  |
|                     | CORE-SHELL NANOMODELS FOR BIOMEDICAL APPLICATIONS<br><i>Jovan P. Šetrajčić, Dragoljub Lj. Mirjanić, Ana J. Šetrajčić – Tomić, Stevan Armaković, Igor J. Šetrajčić</i>             |
|                     | TEMPERATURE SURFACE MEASUREMENT ON BONE DRILLING OPERATION WITH HIGH SPEED VIDEO-THERMOGRAPHIC-CAMERA<br><i>Roberto Lopez, Manuel San Juan, Francisco Santos, Florin Negoescu</i> |
|                     | MODELLING OF CORRUGATED PAPER BOARD BOXES WITH FEM<br><i>Peter Lorenz, Valentina Ignat, Patrick Lamberty, Patrick Ficerai, Constantin - Ioan Bărbînță</i>                         |
|                     | STUDY ABOUT THE THERMAL DESIGN OF STEEL MOULDS USED FOR PLASTIC MATERIALS INJECTION                                                                                               |

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| 17:00       | <i>Mihăilă Stefan, Ardelean Flavius, Groza Mihai</i>                                                                                                                                                                                          |
|             | ESTABLISHING A METHOD FOR DETERMINATION OF EFFECTIVE DIFFUSION COEFFICIENTE<br><i>Miloš Vasić, Zagorka Radojević</i>                                                                                                                          |
|             | EXPERIMENTAL RESEARCHES ON THE CUPOLA'S CHARGES OPTIMIZATION<br><i>Ioan Milosan, Ana Veteleanu</i>                                                                                                                                            |
|             | THE SIMULATION OF MONO-COMPONENT INJECTION PROCESS TO 15OBTAIN PARTS WITH ONE OR MORE GATE LOCATION<br><i>Teodor Daniel Mîndru, Ciprian Dumitru Ciofu, Dumitru Nedelcu</i>                                                                    |
|             | THE STUDY OF THE HYDRATION PROCESS OF CEMENT USING OPTICAL MICROSCOPY AND X-RAY DIFFRACTION<br><i>Luminița Monica Molnar, Daniela Lucia Manea, Nicolae Har</i>                                                                                |
|             | USING THE X-RAY DIFFRACTOMETRY TO DETERMINE THE CAUSES THAT LED TO A RAILWAY RAIL BREAKING<br><i>Munteanu Corneliu, Lorenz Peter, Bărbîntă Constantin-Ioan, Pipa George-Radu, Bistricianu Ionut, Bărbîntă Andreea-Carmen, Axinte Cătălina</i> |
|             | A RAILWAY RAIL FRACTURE EXPERTISES USING THE ELECTRONIC MICROSCOPY<br><i>Munteanu Corneliu, Pipa George-Radu, Bărbîntă Constantin-Ioan, Lorenz Peter, Chicet Daniela-Lucia, Bărbîntă Andreea-Carmen, Axinte Cătălina</i>                      |
|             | TENSILE PROPERTIES OF GLASS FIBER REINFORCED PLASTIC<br><i>Razvan Natanail, Dan Maniu Dușe</i>                                                                                                                                                |
| 17:00/17:15 | <b>Coffee Break</b>                                                                                                                                                                                                                           |
| 17:15       | TOOL'S PROFILE ADJUSTMENT FOR HIGH SPEED FORM TURNING<br><i>Eugen Pămîntaş, Felicia Banciu</i>                                                                                                                                                |
|             | STRUCTURE INFLUENCE ON THE MECHANICAL CHARACTERISTICS OF POLYURETHANE MATERIALS USED IN AUTOMOTIVE INDUSTRY<br><i>Niculai Pasca, Alin Constantin Murariu, Liviu Marsavina</i>                                                                 |
|             | RAPID PROTOTYPING OF FOOTWEAR COMPONENTS<br><i>Mariana Pastina(Costea), Aura Mihai</i>                                                                                                                                                        |
|             | BEHAVIOUR AT IMPACT OF FIBER REINFORCED ELEMENTS IN MINERAL COMPOSITE PRODUCTS<br><i>Pătrașcu Alexandru, Vlase Aurelian, Gheorghe Tudor Vlad, Balotă Doru Andrei</i>                                                                          |
|             | OBJECTS DIGITIZING WITH HIGH LEVEL OF CUSTOMIZATION USING REVERSE ENGINEERING TECHNIQUE<br><i>Roxana Pescaru, Gheorghe Oancea</i>                                                                                                             |
|             | EQUIPMENT FOR OBTAINING NANOFIBERS THROUGH THE ELECTROSPINNING SYSTEM<br><i>Scârlet Roxana, Manea Liliana-Rozemarie, Cramariuc Bogdan</i>                                                                                                     |
|             | INNOVATING TECHNOLOGIES FOR NANOFIBERS ACHIEVEMENT THROUGH ELECTROSPINNING SYSTEM<br><i>Scârlet Roxana, Manea Liliana-Rozemarie, Cramariuc Oana</i>                                                                                           |
|             | TECHNOLOGY OF OBTAINING BULK NANOCRYSTALLINE ALLOYS BY DEVITRIFICATION OF Fe-Cr-Ga-P-Si-C BULK AMORPHOUS ALLOY<br><i>Viorel-Aurel Șerban, Dragoș Buzdugan, Cosmin Codrean, Ion Dragoș Ușu</i>                                                 |
|             | SOME CONSIDERATIONS ON LASER BEAM PROCESSING OF METALS<br><i>Vasile Simon, Marcel Popa, Chetreanu Don Camil Octav</i>                                                                                                                         |

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|                            | ULTRASONIC DEVICE FOR PROCESSING POLYMER COMPOSITE MATERIALS<br><i>Nicușor Alin Sîrbu, Viorel-Aurel Șerban, Stan Daniel, Octavian Oancă<sup>2</sup></i>                                                                                     |
|                            | NUMERICAL SIMULATION OF PARTIAL SLIP ELASTIC CONTACT PART II: CONTACT BETWEEN DISSIMILAR ELASTIC BODIES<br><i>Sergiu Spinu, Dorin Gradinaru</i>                                                                                             |
|                            | NUMERICAL SIMULATION OF PARTIAL SLIP ELASTIC CONTACT PART I: CONTACT BETWEEN SIMILAR ELASTIC BODIES<br><i>Sergiu Spinu, Dorin Gradinaru</i>                                                                                                 |
|                            | INNOVATIVE TECHNOLOGIES USED IN DENTAL TECHNIQUE FOR OBTAINING MOBILE BLUNT TEETH<br><i>Valentin-Marian Stamate, Gheorghe Oancea, Lucia-Antoneta Chicoș, Camil Lancea</i>                                                                   |
|                            | DESIGN AND MANUFACTURING OF EXPONENTIAL ULTRASONIC HORNS<br><i>Iulian Stănășel, Florin Blaga, Traian Buidoș</i>                                                                                                                             |
|                            | PREPARATION AND CHARACTERIZATION OF ZIRCONIA - ALUMINA COMPOSITE CERAMICS OBTAINED FROM NANOPOWDERS<br><i>Stefania Stoleriu, Ecaterina Andronescu</i>                                                                                       |
|                            | A NEW TECHNOLOGY OF THE HIGH RESISTANCE WIRES MANUFACTURING BY DRAWING IN ULTRASOUND FIELD<br><i>Mihai Susan, Viorel Iliescu, Bogdan - Lucian Gavrilă, Elena Chirilă, Dragoș - Cristian Achiței, Francisc Biro</i>                          |
|                            | DIFFRACTOGRAPHIC RESEARCHES ABOUT THE INFLUENCE OF THE ULTRASOUND FIELD DURING THE WIRES MADE FROM 100Cr6 STEEL DRAWING PROCESS<br><i>Mihai Susan, Vasile Bulancea, Viorel Iliescu, Bogdan Lucian Gavrilă, Elena Chirilă, Francisc Biro</i> |
|                            | THE EFFECT OF ELECTRON BEAM REMELTING ON THE RESIDUAL STRESS CHARACTERISTICS OF MCrAlY COATINGS<br><i>Ion-Drăgoș Utu, Gabriela Marginean, Viorel-Aurel Șerban</i>                                                                           |
|                            | APPLICATION OF THE STRUCTURAL NUMBERS METHOD IN ELECTRO - MECHANICAL SYSTEMS ANALYSIS<br><i>Andrzej Wróbel</i>                                                                                                                              |
| <b>19:30</b>               | <b>Papers &amp; Authors<br/>Section 4</b>                                                                                                                                                                                                   |
|                            | EXPERIMENTAL MODELLING OF THE TURNING PROCESS OF SOME STEELS USED FOR RAILWAY TRUCKS AXLE MACHINING<br><i>Manuela Petraru, Octavian Pruteanu, Nicolae Ionescu, Aurelian Vișan, Adriana Cîrstoiu</i>                                         |
|                            | MODELLING OF EDM PROCESS WITH NON- PARALLEL GAP FOR WEAR COMPENSATION OF TOOL-ELECTRODES<br><i>Aurelian Vișan, Nicolae Ionescu, Alexandru Savin, Alexandru Floca</i>                                                                        |
| <b>Thursday<br/>May 26</b> | <b>Papers &amp; Authors<br/>Section 4</b>                                                                                                                                                                                                   |
| <b>9:00</b>                | APPLICATIONS OF JAVA TECHNOLOGY IN THE TEACHING OF TECHNICAL DISCIPLINES<br><i>Dănuț Burdia, Iolanda-Elena Alecsandrescu</i>                                                                                                                |
|                            | FEM ANALYSIS OF THERMAL BEHAVIOR DURING TURNING OF STEEL AISI 1040 AND AISI 4140                                                                                                                                                            |

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| 10:30       | <i>Vlad Daniel-Viorel, Fetecau Catalin, Baroiu Nicusor</i>                                                      |
|             | 3D METHOD, IN CATIA DESIGN ENVIRONMENT, FOR END MILL TOOL'S PROFILING                                           |
|             | <i>Silviu Berbinschi, Virgil Teodor, Nicolae Oancea</i>                                                         |
|             | FLOW ANALYSIS OF A FORMULA SAE CAR USING FEA SIMULATION                                                         |
|             | <i>Gabriel Ursescu, Ciprian Ciofu</i>                                                                           |
|             | THE ANALYSIS OF SOME DETRIMENTAL PHENOMENA IN THE CAM-FOLLOWER CONTACT OF INTERNAL COMBUSTION ENGINES           |
|             | <i>Edward Rakosi, Gheorghe Manolache, Sorinel Gicu Talif</i>                                                    |
|             | FINITE ELEMENT ANALYSIS OF PNEUMATIC MUSCLE                                                                     |
|             | <i>Petre Ioana, Deaconescu Tudor, Deaconescu Andrea, Petre Dan</i>                                              |
|             | 3D FEM OF RESIDUAL STRESS AND DISTORTION IN LASER WELDED STAINLESS STEEL PLATE                                  |
|             | <i>Georgeta Apostol, Claudiu Babis, Gheorghe Solomon, Danut Iordachescu, Catalin Pavalache, Alberto Cuesta</i>  |
| 10:30/11:00 | APPLICATION OF THE PLM CONCEPT IN PROCESSING OF COMPLEX SURFACES BY ELECTROCHEMICAL EROSION                     |
|             | <i>Flavius-Aurelian Sârbu, Cristian Pisarciuc</i>                                                               |
|             | INTEGRAL (PC) ASSISTED GUIDANCE OF VOLUME MACHINING BY ELECTROCHEMICAL EROSION PROCESS                          |
| 11:00       | <i>Flavius-Aurelian Sârbu, Cristian Pisarciuc</i>                                                               |
|             | FEA STUDY ON THE INFLUENCE OF USING HYPERBOLIC SHAPES IN CAD DESIGN OF ROTATING MACHINE ELEMENTS                |
|             | <i>Mihail Aignătoaie</i>                                                                                        |
|             | A DESIGN METHOD FOR MOULD NESTS USED FOR FORMING SHOE SOLES, USING THE DELCAM PowerSHAPE-e CAD APPLICATION      |
|             | <i>Cornelia Ionescu Luca, Răzvan Mocanu</i>                                                                     |
|             | MOULD NESTS DESIGN ALGORITHMS FOR SHOE SOLES                                                                    |
|             | <i>Cornelia Ionescu Luca, Răzvan Mocanu</i>                                                                     |
|             | <b>Coffee Break</b>                                                                                             |
|             | MODERNIZATION OF EsRc – 1400 EXCAVATOR BUCKETS WITH THE HELP OF CAD/CAE SOFTWARE                                |
|             | <i>Dumitrescu Iosif, Jula Dumitru, Itu Vilhelm, Cozma Bogdan</i>                                                |
| 11:00       | 3D MODELLING OF CUSTOMIZED LASTS                                                                                |
|             | <i>Mariana Pastina (Costea), Aura Mihai</i>                                                                     |
|             | CAD RESEARCH REGARDING THE INFLUENCE OF WALL THICKNESS AND RIBBING ON THE FRAME OF PAI25 CRANK MECHANICAL PRESS |
|             | <i>Ioan Dan</i>                                                                                                 |
|             | APPLICATION OF SLP METHOD AS INSTRUMENT FOR PLANT ENGINEERING ACTIVITIES IN RECYCLING INDUSTRY                  |
|             | <i>Vasile V. Merticaru, Olga Marina-Montes, Teodora-Monica Runcanu</i>                                          |
|             | THE RELATIONSHIP BETWEEN TENSION ON 3D CLOTH SURFACE SIMULATION AND THE MECHANICAL BEHAVIOR OF THE FABRIC       |
| 11:00       | <i>Raluca Maria Aileni, Crețu Mioara, Daniela Farimă, Mihai Ciocoiu</i>                                         |
|             | CAD-FEM MODELS FOR LOCAL STRENGTH ANALYSIS OF CARGO TANKS UNDER THERMAL AND SLOSHING PRESSURE LOADS             |
|             | <i>Iulia Mirciu, Leonard Domnisoru</i>                                                                          |
| 11:00       | CAD-FEM STRUCTURAL MODELLING PROCEDURES FOR SHIP STRENGTH                                                       |

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| 13:00       | CHECKING<br><i>Dumitru Dragomir, Leonard Domnisoru, Alexandru Ioan</i>                                                                                                                      |
|             | COMPUTER-AIDED SELECTION OF THE OPTIMUM WORKING PARAMETERS FOR SURFACE MACHINING BY PLANE LAPPING<br><i>Andrea Deaconescu, Tudor Deaconescu</i>                                             |
|             | COMPUTER AIDED STUDY ON CERTAIN CAUSES OF HYDRAULIC SEALING SYSTEM DETERIORATION<br><i>Andrea Deaconescu, Tudor Deaconescu, Teodor Deaconescu</i>                                           |
| 13:00/15:00 | Coffee & Lunch break                                                                                                                                                                        |
| 15:00       | THE CAD/FEM STRUCTURAL MODELLING FOR LIQUEFIED GAS CARRIER SHIPS<br><i>Leonard Domnisoru, Dumitru Dragomir, Alexandru Ioan, Daniela Domnisoru</i>                                           |
|             | REDESIGN AND OPTIMISATION OF FOUNDRY EQUIPMENT USING VALUE ANALYSIS METHOD<br><i>Florin Chichernea</i>                                                                                      |
|             | USING MODERN TECHNOLOGIES GPS (GNSS) AND GIS IN SOLVING PROJECTS REGARDING ENVIRONMENTAL PROTECTION AND AGRICULTURE<br><i>Bădescu Gabriel, Ștefan Ovidiu, Hreniuc Petru, Bădescu Rodica</i> |
|             | FINITE ELEMENT ANALYSIS TO IMPROVE THE SLS PROCESS FOR RAPID PRODUCT DEVELOPMENT<br><i>Pacurar Razvan, Balc Nicolae, Olimpia Ros</i>                                                        |
|             | UTILIZATION OF FINITE ELEMENT METHOD FOR DESIGN OPTIMIZATION OF THE WORKING PARTS FROM TILLAGE MACHINES<br><i>Căpățînă Ionuț, Gheorghe Brătucu</i>                                          |
| 16:30       | VIRTUAL ENGINEERING TEAMS CHARACTERISTICS<br><i>Hanna-Kinga Foldvary-Schramko, Cosmina-Carmen Aldea, Anca Draghici</i>                                                                      |

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

**Room 1**

**Section 2**

Chair: Prof. Wahyono Hadi, Ph.D  
 Co-Chairs: Prof. Dragos Paraschiv, Ph.D., Prof. Octavian Pruteanu, Ph.D.

**Section 3**

Chair: Dr. Marek Placzek  
 Co-Chair: Assoc. Prof. Mihaita Horodinca, Ph.D

| Wednesday<br>May 25 | Papers & Authors<br>Section 2                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00               | A STUDY ON THE RESOURCES OF THE WIDEBAND PASSIVE DYNAMIC ABSORBERS ON IMPROVING THE STABILITY OF BORING BARS<br><i>Mihăiță Horodincă, Eugen Carata, Neculai-Eugen Seghedin, Mihai Boca, Claudiu Filipoaia, Dragoș Chitariu</i> |
|                     | THE SIMULATIONS OF THE FUNCTIONES OF THE DOUBLE DIAMETER PISTON SOLENOID VALVE<br><i>Iulian Florescu, Daniela Florescu</i>                                                                                                     |
|                     | THE ROUGHNESS-FACTOR OF INFLUENCE IN THE MICROMILLING FIELD. SECOND PART<br><i>Oana Iordan, Corneliu Burlacu</i>                                                                                                               |
|                     | MACHINABILITY OF THE PA 66 – GF 30 DURING THE MILLING PROCESS USING THE ROUGHNESS OF SURFACES<br><i>Gheorghe Vasile, Catalin Fetecau</i>                                                                                       |
|                     | EXPERIMENTAL INVESTIGATION ON THE INFLUENCE OF TESTING SPEED ON THE ADHESION STRENGTH OF 2C OVERMOLDED PARTS<br><i>Dobrea Daniel Valentin, Fetecau Catalin, Birsan Dan</i>                                                     |
|                     | DETERMINATION OF THE MATHEMATICAL MODEL OF POWER FOR MILLING 30Cr130 STEEL<br><i>Catalin Gheorghita</i>                                                                                                                        |
|                     | IMPROVING THE EFFICIENCY OF PROCESSING PRODUCTS ENGINEERING BASED ON THE PRINCIPLE OF MINIMIZATION<br><i>Elena Mikhaylova, Al-Sudani Tarafa, Aleksandr Mikhaylov, Dmitrij Mikhaylov</i>                                        |
|                     | RESEARCHES FOR SURFACE QUALITY CUTTED THROUGH PRECISION NORMAL PUNCHING<br><i>Lucian Butnar, Horia Cioban</i>                                                                                                                  |
|                     | CUTTING TOOL FAILURE – UNADEQUATE DESING METHODOLOGY OR PROCESS INSUFFICIENT KNOWN<br><i>Eugen Pămîntaş, Cristian Turc, George Belgiu, Felicia Banciu</i>                                                                      |
|                     | OPTIMISATION OF CUTTING REGIMES AT APPLICATION OF TECHNOLOGICAL CUTTING FLUID<br><i>Vadim Bogouslavskiy, Tatiana Ivchenko, Virtor Poltchenko, Sahbi Zantour</i>                                                                |
|                     | IDENTIFICATION OF THE OPTIMAL CONFIGURATION FOR INFLUENCING FACTORS IN AUTOMATED MILLING PROCESSES                                                                                                                             |

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|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>17:00</b>       | <i>Petru Duşa, Dumitru Nedelcu, Irina- Adriana Vieriu, Ciprian Dumitru Ciofu</i>                                                                                                                                                                        |
|                    | INFLUENCE OF MACHINABILITY IMPROVEMENT BY MEANS OF INCLUSIONS, IN THE MECHANICAL PROPERTIES OF TWO STEELS<br><i>Francisco Santos, Manuel San-Juan, Oscar Martin, Roberto Lopez, Florin Negoescu</i>                                                     |
|                    | ANALYSIS THE INFLUENCE OF BACK - RAKE ANGLE ON CUTTING FORCE BY THE TURNING PROCESSING OF POLYAMIDE PA66 – GF30<br><i>Moşoi Marin</i>                                                                                                                   |
|                    | STUDY CONCERNING THE CUTTING FORCE TO THE TURNING OF THE POLYAMIDE PA66 – GF30<br><i>Moşoi Marin</i>                                                                                                                                                    |
|                    | STUDY ON KINETICS AND THERMODYNAMICS OF SPECIFIC ADI<br><i>Ioan Milosan, Ana Veteleanu</i>                                                                                                                                                              |
|                    | APPROACHES ON IMPROVING PRODUCTION EFFICIENCY OF AN UPPER-MAKING ASSEMBLY LINE IN FOOTWEAR MANUFACTURING<br><i>Florentina Harnagea, Marta Catalina Harnagea</i>                                                                                         |
|                    | CAVITATION RESISTANCE OF STAINLESS STEELS WITH CONSTANT NICKEL AND CARBON CONTENT<br><i>Adrian Karabenciov, Marcela Elena Dimian, Alin Dan Jurchela, Octavian Oancă</i>                                                                                 |
|                    | CAVITATION RESISTANCE OF STAINLESS STEELS WITH CONSTANT CHROMIUM AND CARBON CONTENT<br><i>Alin Dan Jurchela, Ilare Bordeasă, Adrian Karabenciov, Octavian Oancă</i>                                                                                     |
| <b>17:00/17:15</b> | <b>Coffee break</b>                                                                                                                                                                                                                                     |
| <b>17:15</b>       | A COMPARITIVE CASE STUDY OF TENSILE STRENGHT AND ELONGATION FOR FLEXIBLE MATERIALS USED IN THE LASTING PROCESS<br><i>Florentina Harnagea, Marta Catalina Harnagea</i>                                                                                   |
|                    | TECHNOLOGIES ASSESSMENT BASED ON PRODUCTION COSTS<br><i>Cristian Pisarciuc, Flavius Aurelian Sarbu, Mihaela Voica</i>                                                                                                                                   |
|                    | STUDY REGARDING THE KAWABATA APPLICATION SYSTEM TO ESTABLISH THE COMFORT CHARACTERISTICS OF COTTON KNITTED FABRICS<br><i>Mihaela Macsim, Romen Butnaru</i>                                                                                              |
|                    | PECULIARITIES OF QUALITY AND EFFICIENCY ENSURING AT MANUFACTURING OF SPATIALLY MODIFIED COUPLINGS TEETH<br><i>Aleksandr Mikhaylov, Ilia Navka, Sergej Selivra, Ahmed Gituni, Anna Dolgikh</i>                                                           |
|                    | KINEMATIC EXCITATIONS AS IMPLEMENTATION OF ACTIVE REDUCTION OF VIBRATIONS<br><i>Katarzyna Białas</i>                                                                                                                                                    |
|                    | SOME POSSIBILITIES OF CHATTER NUMERICAL CONTROL IN CUTTING PROCESSES<br><i>Gabriel Frumuşanu, Alexandru Epureanu, Ionuţ Clementin Constantin</i>                                                                                                        |
|                    | SURFACE QUALITY IMPROVEMENT OF CAST IRON PARTS BY DEPOSITION WITH W AND WC ELECTRODES USING ELECTRIC IMPULSE DISCHARGE METHOD<br><i>Perju Manuela Cristina, Nejneru Carmen, Lărgeanu Anca Elena, Achişei Dragoş Cristian, Stefanică Roxana Gabriela</i> |
|                    | RESEARCHES CONCERNING THE IDENTIFICATION OF IN GROUPS                                                                                                                                                                                                   |

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| 19:30                      | LOCALIZED DEFECTS USING THE ULTRASONIC INVESTIGATION<br><i>Petru Duşa, Iustina Elena Rotman</i>                                                                                                       |
|                            | USING ACCELERATED TESTS IN ESTIMATING THE RELIABILITY INDICATORS OF MACHINE TOOLS<br><i>Sebastian Marian Zaharia, Ionel Martinescu</i>                                                                |
|                            | ALLOCATION OF TIME VARIATIONS IN SUPPLY CHAINS BASED ON AN ANALOGY WITH THE ANALYSIS AND SYNTHESIS OF MECHANICAL TOLERANCES<br><i>António Mourão, João Fradinho, António M. Gonçalves-Coelho</i>      |
|                            | CYLINDRICAL GEAR RAPID MANUFACTURING STUDY (PART I)<br><i>Bogdan Deáky, Răzvan Udrioiu, Nouruş Lupulescu, Nicolae Bâlc</i>                                                                            |
|                            | THE ROUGHNESS- FACTOR OF INFLUENCE IN THE MICROMILLING FIELD. FIRST PART<br><i>Oana Iordan, Corneliu Burlacu</i>                                                                                      |
|                            | IMPROVEMENT OF WEAR RESISTANCE OF MECHANICAL PARTS USING A DUPLEX TREATMENT<br><i>Ramona Monica Dobra, Ion Mitelea, Cosmin Locovei</i>                                                                |
|                            | EXPERIMENTAL RESEARCH ABOUT EVOLUTION OF SURFACE ROUGHNESS AND TIME FOR DIFFERENT VALUE OF RADIAL CUTTING DEPTH IN BALL END MILLING OF C45 MATERIAL<br><i>Mircea Lobonţiu, Vlad Hăgan, Ioan Paşca</i> |
|                            | EXPERIMENTAL RESEARCH AND MATHEMATICAL MODELING ON THE SURFACE ROUGHNESS IN BALL END MILLING OF C45 MATERIAL<br><i>Ioan Paşca, Mircea Lobonţiu</i>                                                    |
|                            | THE INFLUENCE OF CUTTING PARAMETERS ON THE DEFORMATIONS OF THE WORKPIECE IN HARD TURNING PROCESSES<br><i>Irina Beşliu (Grigoraş), Laurenţiu Slătineanu, Dumitru Amarandei</i>                         |
|                            | THEORETICAL RESEARCHES ON TEXTILE SPINDLE-RING CENTERING SPECIFIC TO RING FRAMES<br><i>Carmen Maria Loghin, Barbu Drăgan, Ştefan Grigoraş, Sebastian-Titus Duma</i>                                   |
|                            | DETERMINATION OF THE CALCULUS RELATION OF THE AXIAL CUTTING FORCE AT DRILLING OF THE STEEL X6CrNiTi18-10<br><i>Aurelian Vlaşe, Ovidiu Blăjină, Bogdan Vlaşe</i>                                       |
|                            | DETERMINATION OF THE CALCULUS RELATION OF THE CUTTING MOMENT AT DRILLING OF THE STEEL X6CrNiTi18-10<br><i>Bogdan Vlaşe, Aurelian Vlaşe, Ovidiu Blăjină</i>                                            |
|                            | DETERMINATION OF THE CALCULUS RELATION OF THE CUTTING TOOL WEAR AT DRILLING OF THE STEEL X6CrNiTi18-10<br><i>Ovidiu Blăjină, Bogdan Vlaşe, Aurelian Vlaşe</i>                                         |
| <b>Thursday<br/>May 26</b> | <b>Papers &amp; Authors<br/>Section 2</b>                                                                                                                                                             |
| <b>9:00</b>                | THE IMPORTANCE OF ALL PARAMETERS IN THE DETERMINATION OF THE MODAL FREQUENCIES<br><i>Dragos-Alexandru Cazacu, Paul Lixandru, Tudor Chereches</i>                                                      |
|                            | COMPUTATIONAL APPROACH ON THE INFLUENCE OF THE CUTTING SPEED ON THE HEAT TRANSFER COEFFICIENT<br><i>Gabriel Murariu, Lucian Georgescu, Viorel Vacarus</i>                                             |
|                            | KINETIC PROCESS OF TEETH GRINDING                                                                                                                                                                     |

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|                    | <i>Bostan Ion, Sergiu Mazuru, Vlad Botnari</i>                                                                                                                           |
|                    | RESEARCH REGARDING THE OPTIMISATION OF CONSUMPTION OF ENERGY IN BREAD DOUGH MIXING PROCESS<br><i>Mihaela Ionela Luchian, Carol Csatos</i>                                |
|                    | DETERMINATION OF THE MATHEMATICAL MODEL OF POWER FOR MILLING 30Cr130 STEEL<br><i>Catalin Gheorghita</i>                                                                  |
|                    | EXPERIMENTAL STUDY REGARDING THE WORKPIECE TEMPERATURE DURING MILLING PROCESS WITH DIFFERENT CUTTING CONDITIONS<br><i>Vasile Avram, Gheorghe Brabie</i>                  |
|                    | <b>Papers &amp; Authors<br/>Section 3</b>                                                                                                                                |
|                    | CONTRIBUTIONS TO OPERATION MODELLING SPECIFIC TO FLEXIBLE COUPLINGS<br><i>Venetia Sandu, Costel Bejan</i>                                                                |
|                    | AN APPLICATION OF FUZZY LOGIC METHODOLOGY FOR WORKPIECES CHOOSING<br><i>Cristian-Gheorghe Turc, Dorian Ștef, George Belgiu, Daniel Rotar</i>                             |
|                    | MANAGEMENT OF INTELLIGENT MACHINING – AN ARTIFICIAL INTELLIGENCE APPROACH<br><i>Constantin Cărbăușu, Adriana Albu, Loredana Stanciu, George Belgiu</i>                   |
|                    | NEURAL NETWORK APPLICATION IN MONITORING OF TOOL WEAR<br><i>Marinela Ință, Achim Muntean</i>                                                                             |
|                    | DESIGN AND EXPERIMENTAL RESULTS ON TEST BY A NEW TYPE OF MECHANICAL-HYDRAULICALLY GEAR BOX<br><i>Constantin Chiriță, Adrian Constantin Hanganu</i>                       |
|                    | APPLICATION OF RAPID PRODUCT DEVELOPMENT TO PELTON TURBINE<br><i>Razvan Udroi, Anisor Nedelcu, Liviu Stroia</i>                                                          |
|                    | MODELING THE AUTOMATED OPERATION OF FLAX AND HEMP PROCESSING CENTRE DURING A TYPICAL WINTER DAY<br><i>Liliana Indrie, Mariana Prichici, Cristina Secan, Ioan Almășan</i> |
|                    | BIOENGINEERING APPLICATION IN DENTAL PROSTHETICS<br><i>Ioan Bondrea, Achim Muntean, Andreea Muntean</i>                                                                  |
|                    | THE GEVOLVENT'S – NEW CURVES WITH APPLICATIONS IN MECHATRONICS AND ROBOTICS<br><i>Eugen Ghita, Luigi Renato Mistodie, Carmen Catalina Rusu</i>                           |
| <b>10:30</b>       |                                                                                                                                                                          |
| <b>10:30/11:00</b> | <b>Coffee break</b>                                                                                                                                                      |
| <b>11:00</b>       | DATA AQUISITION WITH THE MC9S12C32 MICROCONTROLLER (BY MEANS OF MCU SLK) FOR MONITORING APPLICATIONS<br><i>Bogdan Deáky, Nouraș Lupulescu, Doru Ursuțiu</i>              |
|                    | OPTIMIZATION STUDIES ABOUT CRANK MECHANICAL PRESS PAI 25 FRAME<br><i>Ioan Dan, Romeo Cioară</i>                                                                          |
|                    | KINEMATIC STRUCTURES FOR PROCESSING OF SURFACES WITH CIRCLE DIRECTRIX AND LINE GENERATRIX<br><i>Romeo Cioară</i>                                                         |
|                    | TYPE-LINKAGES FOR MACHINE-TOOLS                                                                                                                                          |

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|                    | <i>Romeo Cioară</i>                                                                                                                                                                                              |
|                    | AN EXPERT SYSTEM FOR MAKING MOLD CAVITIES<br><i>Vlad Tut, Cristian Cosma, Daniel Stan, Cristian Cioana</i>                                                                                                       |
|                    | PROCESSING OF COMPLEX SURFACES USING INDUSTRIAL ROBOTS<br>PROGRAMMED WITH ROBOTSTUDIO MACHINING POWERPAC<br><i>Viorel Cohal</i>                                                                                  |
|                    | DETERMINATION OF WELDING TECHNOLOGY USING THE<br>ROBOTSTUDIO ARCWELDING POWERPAC AND VIRTUAL ARC<br><i>Viorel Cohal, Adrian-Ioan Cucutianu, Mihai-Adrian Ciocan</i>                                              |
|                    | THE 4WD TRACTORS ASSEMBLY OPTIMIZATION BY THEIR RIGGING<br>WITH FRONTAL PLOUGH<br><i>Carol Csatos</i>                                                                                                            |
|                    | USING TRIZ TO FIND ALTERNATIVES SOLUTIONS<br><i>Adrian Orișă, George Drăghici, Jean-Luc Beney, Pierre Repetti</i>                                                                                                |
|                    | METHODOLOGY OF DEFINITION OF DELIVERY REQUIREMENTS<br><i>Adrian Orișă, George Drăghici, Pierre Repetti</i>                                                                                                       |
|                    | AXIOMATIC DESIGN FOR THE MANUFACTURE OF A DEVICE NECESSARY TO<br>ELECTROEROSION PROCESSING OF HOLES WITH CURVILINEAR AXIS<br><i>Dumitru Uliuliuc, Laurențiu Slătineanu, Alexandru Rădeanu</i>                    |
|                    | ANALYSIS OF COORDINATION ISSUES FLEXIBLE MANUFACTURING<br>SYSTEM<br><i>Ciorteia Elisabeta Mihaela</i>                                                                                                            |
|                    | ABOUT NEW TYPES OF EQUATORIAL SPHERICAL HYPOCYCLOID<br>AUTOMATIC MACHINE<br><i>Răzvan Răceu</i>                                                                                                                  |
|                    | A VIRTUAL ENVIRONMENT MODELING OF THE OPERATION OF AN<br>EQUATORIAL SPATIAL SPHERICAL HYPOCYCLOID AUTOMATIC<br>MACHINE<br><i>Răzvan Răceu, Cosmina Pöllner</i>                                                   |
|                    | VIBRATION MONITORING STRATEGIES OF GEARBOXES IN<br>MECHATRONICS SYSTEMS DEDICATED TO TEXTILE MACHINES<br><i>Barbu Drăgan, Ștefan Grigoraș, Carmen Maria Loghin, Mihăiță Peptanariu,<br/>Sebastian-Titus Duma</i> |
|                    | TEXTILE EQUIPMENT MONITORING BASED ON MECHATRONICS<br>CONCEPTS<br><i>Ștefan Grigoraș, Florin Pantilimonescu, Daniela-Smaranda Ionescu, Sebastian-<br/>Titus Duma</i>                                             |
|                    | CONTRIBUTIONS CONCERNING FUNCTIONAL AND CONSTRUCTIVE<br>OPTIMIZATION OF THE WINCHES THAT EQUIP THE LUMBER<br>TRACTORS<br><i>Oltean Andrei, Popa Marcel, Tirla Andrei</i>                                         |
|                    | ULTRASONIC CLEANING DEVICE DEDICATED TO TEXTILE MACHINE<br>COMPONENTS<br><i>Mihăiță Peptanariu, Florin Pantilimonescu, Ștefan Grigoraș, Daniela-Smaranda<br/>Ionescu, Sebastian-Titus Duma</i>                   |
| <b>13:00</b>       |                                                                                                                                                                                                                  |
| <b>13:00/15:00</b> | <b>Coffee &amp; Lunch break</b>                                                                                                                                                                                  |
| <b>15:00</b>       | AHEAD TYPE PROJECTILES CONSIDERATIONS ON TERMINAL<br>BALLISTICS                                                                                                                                                  |

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| <b>16:30</b> | <i>Alin-Constantin Sava, Tudor Chereches, Paul Lixandru</i>                                                                                           |
|              | AHEAD TYPE PROJECTILES PARTICULARITIES REGARDING THE LAUNCHING SYSTEM<br><i>Alin-Constantin Sava, Tudor Chereches</i>                                 |
|              | EXPERIMENTAL RESEARCH ON THE POSSIBILITY TO AVOID OPEN CIRCUIT PULSES IN EDM, BY DIVIDING THE VOLTAGE PULSE<br><i>Constantin Diaconescu, Dan Nanu</i> |
|              | THE DYNAMIC PROCESSES IN MULTI-BAR MECHANISMS<br><i>Cezar Oprisan, Mihai Baiceanu, Dumitru Olaru</i>                                                  |
|              | ROLLING FRICTION TORQUE IN MICROSYSTEMS FOR DRY AND LUBRICATED CONDITIONS<br><i>Alina Dumitrascu, Ciprian Stamate, Dumitru Olaru</i>                  |

## SECTION 5 & SECTION 7

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

#### Room 2

##### Section 5

Chair: Prof. Pavel Topala, Ph.D  
 Co-Chairs: Prof. Laurentiu Slatineanu, Ph.D.

##### Section 7

Chair: Prof. Milos Vasic, Ph.D  
 Co-Chair: Prof. Viorel Cohal, Ph.D

| Wednesday<br>May 25 | Papers & Authors<br>Section 5                                                                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00               | GREENHOUSE GAS EMISSION ASSESSMENTS OF A MICRO-COMBINED COOLING, HEATING AND POWER SYSTEM FOR DOMESTIC RESIDENCE<br><i>Ion V. Ion, Simona Paraschiv, Spiru Paraschiv</i>                                                                                                   |
|                     | MODEL OF FREE VIBRATION OF NON-LINEAR FLEXIBLE COUPLINGS<br><i>Costel Bejan, Venetia Sandu</i>                                                                                                                                                                             |
|                     | DETERMINING THE THRESHOLD OF SENSITIVITY OF WATER METERS IN THE PRESENCE OF A MAGNETIC FIELD<br><i>Mihaela Rodica Clinciu, Ramona Clinciu</i>                                                                                                                              |
|                     | MECHANICAL PROPERTIES OF THE ALUMINUM ALLOYS AT LOW TEMPERATURES. STATISTICAL PROCESSING.<br><i>Mihaela Smeadă, Maria Stoicănescu, Bogdan Munteanu</i>                                                                                                                     |
|                     | THE INFLUENCE OF THE LOW TEMPERATURES ON THE MECHANICAL PROPERTIES OF ALUMINUM ALLOYS<br><i>Mihaela Smeadă, Maria Stoicănescu, Virgil Geamăn, Irinel Radomir</i>                                                                                                           |
|                     | STUDY FOR TOTAL COST OF DESIGN ACTIVITY BASED ON FUZZY SETS<br><i>Florin Blaga, Iulian Stănaşel, Voichița Hule, Mircea Ursu</i>                                                                                                                                            |
|                     | MODERN TECHNOLOGIES FOR THE ANALYSIS OF FIRE ACTION IN CLOSED COMPARTMENTS<br><i>Dan Diaconu – Șotropa, Mihai Vrabie, Mihaela Ibănescu</i>                                                                                                                                 |
|                     | COMPARATIVE APPROACH OF TUBULAR WIRE WELDING TO OTHER WELDING METHODS FOR ASSEMBLY WORK ON CONSTRUCTION SITES<br><i>Raul Moisa, Mihaela Popescu, Liviu Bereteu, Carmen Opreș</i>                                                                                           |
|                     | NUMERICAL MODEL FOR THE ANALYSIS OF MODAL BEHAVIOUR OF A BIO-COMPOSITE PLATE WITH APPLICATIONS TO AUTOMOTIVE PARTS MANUFACTURING, IN ORDER TO EVALUATE THE MATERIAL CONSTANTS<br><i>Viorel Nicolae, Gabriel Anghelache, Sorin Ilie, Alexandru Boroiiu, Gabriela Mitran</i> |
|                     | THEORETICAL AND EXPERIMENTAL RESEARCHES FOR FRICTION COEFFICIENT DETERMINATION IN ALUMINUM EXTRUSION<br><i>Lucian Butnar, Radu Sugar</i>                                                                                                                                   |

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| 17:00       | PRODUCT FUNCTIONS DEFINITION IN SYSTEMATIC DESIGN AND AXIOMATIC DESIGN APPROACHES<br><i>Felicia Banciu, George Drăghici, Eugen Pămîntaş, Cristian Turc</i>                                                                                                               |
|             | LIQUID HOT ISOSTATIC PRESSING APPLIED TO ALUMINUM ALLOYS<br><i>Virgil Geamăn, Mariana Axente, Maria Stoicănescu, Irinel Radomir</i>                                                                                                                                      |
|             | THE EXPERIMENTAL DETERMINATION OF NATURAL FREQUENCIES OF A BIO-COMPOSITE MATERIAL WITH APPLICATIONS IN THE CAR INTERIOR TRIM, IN ORDER TO EVALUATE ITS MECHANICAL CHARACTERISTICS<br><i>Viorel Nicolae, Gabriel Anghelache, Sorin Ilie, Alexandru Boroiu, Nadia Ilie</i> |
|             | THEORETICAL AND EXPERIMENTAL STUDIES ON COMPOSITE MATERIALS REINFORCED WITH POLYSTYRENE OR NYLON FIBERS<br><i>Adrian Calieniciug, Adrian Calieniciug, Gheorghe N. Radu</i>                                                                                               |
|             | KINEMATIC ANALYSIS OF AN ISOKINETIC EQUIPMENT CONCEIVED FOR REHABILITATION<br><i>Petre Ioana, Deaconescu Tudor, Deaconescu Andrea, Petre Dan</i>                                                                                                                         |
|             | BIOCOMPOSITES HAP-ZRO <sub>2</sub><br><i>Alina Melinescu, Maria Preda, Livia Sima</i>                                                                                                                                                                                    |
|             | CARACTERIZATION OF TITANIUM NITRIDE LAYERS OBTAINED BY HVOF THERMAL SPRAYING METHOD<br><i>Radu Alexandru Roşu, Viorel Aurel Şerban, Violeta Tsakiris, Dragoş Utu, Bran Ibolyka, Iosif Hulka</i>                                                                          |
|             | VIRTUAL PROTOTYPING DEVICE FOR REHABILITATION OF CHILDREN ABOVE 18 MONTHS<br><i>Iwona Chuchnowska, Agnieszka Sekala</i>                                                                                                                                                  |
|             | DYEING WOOL FIBERS BY APPLYING A NEW COMPLEXED DYES DERIVED FROM FE(III), CU(II), NI(II) AND ZN(II) IONS<br><i>Laura Chirila, Emil Muresan, Angela Cerempei</i>                                                                                                          |
|             | COMPARATIVE STUDY BETWEEN THE BEHAVIOUR OF COMPOSITE RESIN REINFORCED WITH GLASS FIBRE. MECHANICAL PROPERTIES<br><i>Mihai Alin Pop, Alexandru Constantinescu</i>                                                                                                         |
|             | ECOFRIENDLY MULTIFUNCTIONAL TREATMENTS ON COTTON FABRICS<br><i>Angela Cerempei, Emil Muresan, Laura Chirila</i>                                                                                                                                                          |
|             | ASPECTS REGARDING THE INFLUENCE OF SOIL MICROPROFILE UPON TENSIONS WHICH APPEAR IN A SOWING SECTION<br><i>Loghin Florin, Ene Tudor Adrian, Popescu Simion, Rus Florean</i>                                                                                               |
|             | PERSPECTIVES OF INOVATIONS IN AUTOMOTIVE INDUSTRY AND CUSTOMER FEEDBACK FOR NEW TECHNOLOGIES<br><i>Isac Nicoleta</i>                                                                                                                                                     |
| 17:00/17:15 | Coffee break                                                                                                                                                                                                                                                             |
| 17:15       | RESEARCH ON THE EFFECT THE COMPOSITE MATERIALS HAVE ON REDUCING TRAFFIC NOISE POLLUTION OF MOTOR VEHICLES<br><i>Mihai Banica, Ioan Radu Şugar</i>                                                                                                                        |
|             | CITY GARBAGE AS A RENEWABLE ENERGY AND SOLUTION TO THE PROBLEM OF SURABAYA SOLIDWASTE MANAGEMENT<br><i>Wahyono Hadi, Mustika Hardi</i>                                                                                                                                   |
|             | EVAPOTRANSPIRATION BED DESIGN USING THE UNSTABLE AND                                                                                                                                                                                                                     |

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| IMMATURE COMPOST FOR WASTEWATER TREATMENT<br><i>Ganjar Samudro, Sarwoko Mangkoedihardjo</i>                                                                                                 |
| THE EXPERIMENTS PLANNING IN ORDER TO VALIDATE AN INNOVATIVE MODEL<br><i>Petru Duşa, Iuliana Laura Taranovschi, Gheorghe Nagîţ</i>                                                           |
| THE EFFECT OF INFLUENCE OF THE MAGNETIC FIELD ON THE ELECTROSPARK ALLOYING PROCESS<br><i>Pavel Pereteatcu, Alexandr Ojegov, Eugeniu Ungureanu, Valentin Mikhailov</i>                       |
| ECODESIGN METHODOLOGY APPLIED IN THE PRODUCT CONCEPTUAL DESIGN STAGE<br><i>Lucian Bârsan, Anca Bârsan</i>                                                                                   |
| COORDINATE MEASURING MACHINE MEASUREMENT UNCERTAINTY STUDY<br><i>Aurel Tulcan, Cristian Cioană, Cristian Cosma, Ion Grozav</i>                                                              |
| EXERGETIC ANALYSIS OF GAS TURBINE PLANT WITH EXTERNAL HEAT RECOVERY<br><i>Sorin-Gabriel Vernica, Vittorio Verda, Tudor Sajin, Cătălin Bîrsan</i>                                            |
| NEW PROCESSES FOR ELIMINATION OF CHLORINATED VOC'S<br><i>Radu Claudiu Fierascu, Neata Marian, Irina Dumitriu</i>                                                                            |
| A COMPARATIVE OVERVIEW OF THE ENVIRONMENTAL IMPACT ASSESSMENT PRODUCED BY DIFFERENT ECONOMIC ACTIVITIES USING THE GLOBAL POLLUTION INDEX<br><i>Carmen Zaharia</i>                           |
| STRUCTURAL AND MECHANICAL CHARACTERIZATION OF ALUMINUM ALLOY-GALVANIZED STEEL JOINTS REALIZED BY CMT PROCESS<br><i>Radu Alexandru Roşu, Doru Romulus Pascu, Muncuţ Elena, Toma Cristian</i> |
| FLOW SIMULATION ON A REVERSE ENGINEERED PART<br><i>Cristian Cioană, Aurel Tulcan, Adrian Dume, Iancu Şerban</i>                                                                             |
| REVERSE ENGINEERING FOR QUALITY CONTROL<br><i>Cristian Cioană, Aurel Tulcan, Cristian Cosma, Tudor Iclănzan</i>                                                                             |
| GRAPHICAL TOOL FOR DESIGN AND DEVELOPMENT OF CAVE SYSTEMS FOR VIRTUAL REALITY<br><i>Ionel Batog</i>                                                                                         |
| NANOPHOSPHORS SYNTHESIS THROUGH SOLVOTHERMAL ROUTE<br><i>Ivan Dugandžić, Vesna Lojpur, Katarina Marinkovic, Lidija Mančić, Maria Eugenia Rabanal, Olivera Milošević</i>                     |
| RESEARCH ON THE QUALITY OF Cu-Zn-Al SHAPE MEMORY ALLOYS JOINED BY ELECTRIC RESISTANCE POINT - WELDING<br><i>Claudia M. Dorohoi, Ion Mitelea, Corneliu M. Crăciunescu</i>                    |
| A STUDY ON MULTIAXIAL HIGH CYCLE FATIGUE MODELS<br><i>Lorand Kun, Ion Dumitru, Emil Cotuna</i>                                                                                              |
| ULTRASONIC AND COMBUSTION CHARACTERIZATION OF GLYCEROL-HEAVY FUEL OIL EMULSIONS<br><i>Dana-Cristina Toncu, Osman Yildirim</i>                                                               |
| CAVITATION RESISTANCE OF TITANIUM ALLOYS COATED WITH OXIDES POWDER BY PLASMA SPRAYING AND LASER BEAM REMELTING                                                                              |

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| 19:30                      | <i>Marcela Elena Dimian, Ion Mitelea, Ilare Bordeas</i>                                                                                                                                               |
|                            | ADVANCED SPECTROSCOPIC INVESTIGATION OF CERAMIC SAMPLES<br>BASED ON RAMAN AND SEM-EDX TECHNIQUES<br><i>Daniela Domnisoru, Mirela Praisler</i>                                                         |
|                            | NON-DESTRUCTIVE ANALYSIS OF CERAMIC SAMPLES BY FTIR-ATR<br>AND STANDARD SEM METHODS<br><i>Daniela Domnisoru, Mirela Praisler</i>                                                                      |
|                            | A NEW CONCEPTION REGARDING THE HOUSING OF THE DRYING<br>CYLINDERS<br><i>Daniela Dorina Fulop, Csaba Gyenge, Ancuta Costea, Istvan Fulop</i>                                                           |
|                            | THEORETICAL AND EXPERIMENTAL STUDIES ABOUT THE DYNAMIC<br>FLOW UNDER THE UAV'S SPECIFIC PROFILES<br><i>Florescu Daniela, Florescu Iulian, Ciobanu Bogdan, Nedelcut Florin, Nedelcu<br/>Dragos</i>     |
|                            | THE STUDY OF THE PROCESSING AND PROPERTIES OF WATER-OIL<br>EMULSION<br><i>Buzduă Ștefania Roxana, Aniței Florin, Sajin Tudor, Olaru Dumitru</i>                                                       |
|                            | IMPROVEMENT OF ARTIFICIAL AGEING TREATMENT OF 7075<br>ALUMINUM ALLOY USING THERMAL CYCLES<br><i>Ștefaniță Roxana Gabriela, Vizureanu Petrică, Perju Manuela Cristina, Achiței<br/>Dragoș Cristian</i> |
|                            | ADHESION BETWEEN COMPOSITE MATERIALS AND MASONRY<br>STRUCTURES<br><i>Florin Eftimie</i>                                                                                                               |
| <b>Thursday<br/>May 26</b> | <b>Papers &amp; Authors<br/>Section 5</b>                                                                                                                                                             |
| 9:00                       | TRANSVERSE STRAIN RESPONSE MEASUREMENTS OF SOME<br>DIELECTRIC ELASTOMER POLYMERS<br><i>Vlad Cârlescu, Dumitru Olaru, Gheorghe Prisăcaru, Maria Cazacu</i>                                             |
|                            | CONSIDERATIONS CONCERNING THE TOPOGRAPHICAL GUIDANCE<br>OF SUBTERRANEAN MINING WORKS IN THE E.M. AURUM BAI A MARE<br><i>Ștefan Ovidiu, Bădescu Gabriel</i>                                            |
|                            | THERMAL PERFORMANCE OF A PORTABLE WATER HEATER UNDER<br>CLIMATIC CONDITION<br><i>Adriana Zara, Rita Stoica, Emilian Ene, Georgiana Dragusin</i>                                                       |
|                            | A CLOSER EXAMINATION OF THE THERMAL PERFORMANCE OF<br>MULTIFOIL INSULATIONS<br><i>Marian Pruteanu, Adrian Radu, Adrian Ciobanu, Adrian Iacob</i>                                                      |
|                            | ANALYSIS OF WAVE ENERGY CONVERSION PROCESS<br><i>Dragoș-Iulian Nedelcu, Tudor Sajin, Giovanni Battista Ferreri, Carlo Lo Re<sup>2</sup> &amp;<br/>Constantin-Narcis Ostahie</i>                       |
|                            | <b>Papers &amp; Authors<br/>Section 7</b>                                                                                                                                                             |
|                            | MACHINABILITY ANALYSIS OF SOME STEELS USED IN ELECTRICAL<br>DISCHARGE MACHINING<br><i>Aurelian Vișan, Nicolae Ionescu, Alexandru Floca, Alexandru Savin</i>                                           |
|                            | THERMAL CHANGES AT LASER BEAM MACHINING                                                                                                                                                               |

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| 10:30       | <i>Giorgiana Nistoroschi, Bogdan Vaceanu, Marius Chirileanu' Laurențiu Slatineanu</i>                                                                                                                               |
|             | INFLUENCES OF SOME THERMAL PROPERTIES OF THE WORKPIECES MATERIALS ON THE MACHINABILITY BY EDM<br><i>Lorelei Gherman, Margareta Coteata' Chema Maria Garrido Castro</i>                                              |
|             | ULTRASONIC WELDING SIMULATION FOR METALLIC MATERIALS<br><i>Octavian Oanca, Niculai Pasca, Nicusor Alin Sirbu' Elena Dimian</i>                                                                                      |
|             | SOME POSSIBILITIES TO MEASURE PULSE PARAMETERS DURING THE ELECTRIC DISCHARGE MACHINING PROCESS<br><i>Emanoil Toma, Dan Nanu, Ioan P. Mihu' Constantin Diaconescu</i>                                                |
|             | SOME POSSIBILITIES TO MONITORING THE ENERGY CONSUMED IN ELECTRICAL DISCHARGE MACHINING.<br><i>Emanoil Toma, Ioan P. Mihu' Dan Nanu</i>                                                                              |
|             | ENVIRONMENT PROTECTION ISSUES WHEN USING CORED WIRE WELDING<br><i>Raul Moisa, Mihaela Popescu, Liviu Bereteu' Carmen Opreș</i>                                                                                      |
|             | DYNAMIC SIMULATION OF THE SWING UNIT FROM A ROBOT WELDING LINE<br><i>Horia Cioban, Lucian Butnar' Gheorghe Pop</i>                                                                                                  |
|             | INFLUENCES OF THE PARAMETERS AT MECHANIZED MAG WELDING WITH RUTILE CORED WIRE UPON HAZ DIMENSIONS<br><i>Dănuț Mihăilescu, Vasile Merticaru, Victor Belcin' Octavian Frîncu</i>                                      |
|             | MEASUREMENT OF ANODIC POTENTIALS AND ITS DISTRIBUTION IN NARROW FLOWING CHANNEL IN CONDITIONS CLOSE TO ACTUAL ELECTROCHEMICAL PROCESSING.<br><i>Rusica Ivan, Sauschin Boris, Martiniuc Nicolai, Toca Alexei</i>     |
|             | DETERMINING THE COEFFICIENTS OF FUSION AND WELD DEPOSITION AT MECHANIZED MAG WELDING WITH RUTILE CORED WIRE<br><i>Dănuț Mihăilescu, Vasile Merticaru, Victor Belcin' Octavian Frîncu</i>                            |
|             | ANALYSIS OF THE WELD LINE INFLUENCE ON MECHANICAL PROPERTIES OF TWB BASED ON EMITTED THERMAL ENERGY<br><i>Vlad Andrei Ciubotariu</i>                                                                                |
| 10:30/11:00 | Coffee break                                                                                                                                                                                                        |
| 11:00       | THEORETICAL AND EXPERIMENTAL RESEARCH ABOUT THE INFLUENCE OF ELECTRODE ROTATION UPON PRODUCTIVITY, QUALITY AND WEAR AT EDM<br><i>Traian Buidos, Mircea-Petru Ursu, Constantin Bungău' Mihai-Dan Groza</i>           |
|             | FRICTION STIR WELDING OF S235 STEEL<br><i>Radu Cojocaru, Lia Boțilă, Cristian Ciucă</i>                                                                                                                             |
|             | MATHEMATICAL MODEL OF DEFORMATION AND STRESS DETERMINATION AT WELDING PROCESS ON FILLET WELDS<br><i>Georgeta Apostol, Claudiu Babiș, Dumitru Titi Cicic, Gheorghe Solomon, Danut Iordachescu' Corneliu Rontescu</i> |
|             | EXPERIMENTAL ON RECOVERY OF SOME GLASS WASTE FROM CATHODE RAY TUBES<br><i>Vasilica Dima, Mihai Eftimie, Adrian Volceanov, Georgeta Voicu, Ramona Dincă</i>                                                          |
|             | MICROSTRUCTURAL CHARACTERIZATION OF Ni-5Al COATINGS                                                                                                                                                                 |

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| DEPOSITED BY ELECTRIC ARC WIRE THERMAL SPRAYING<br><i>Mariana Axente', Virgil Geamăn</i>                                                                                                                            |
| HEAT TREATMENT OF JOINTS WELDED ON COGGED SURFACES<br><i>Elena Scutelnicu, Bogdan Georgescu</i>                                                                                                                     |
| INTEGRATED EXPERIMENTAL SYSTEM FOR EVALUATING POLYMERS<br>LASER WELDABILITY, REAL-TIME MONITORING AND CONTROL<br><i>Aurel – Valentin Bîrdeanu, Mariana Ilie, Virgil Stoica, Victor Verbitchi</i>                    |
| EVALUATION OF EXPERIMENTAL ELECTRO TECHNOLOGICAL<br>PARAMETERS AT DIE-SINKING ELECTRO DISCHARGE MACHINING<br><i>Cristian Pisarciuc, Flavius Aurelian Sarbu</i>                                                      |
| THE WELDED JOINT'S GEOMETRICAL CONFIGURATION DEPENDENCE<br>ON THE TORCH TILTING ANGLE IN THE CASE OF GMAW<br><i>Dumitru Titi Cicic, Corneliu Rontescu, Georgeta (Milos) Apostol, Mihai Ion Vasile, Catalin Toma</i> |
| THE INFLUENCE OF ELECTRON BEAM SCANNING MODUS ON THE<br>PROPERTIES OF TITANIUM SURFACES ALLOYED WITH TUNGSTEN<br>CARBIDE POWDER<br><i>Călin Pogan, Ioan Secoșan, Ion Mitelea, Waltraut Brandl</i>                   |
| GALVANIZED SHEET METAL WELDING USING THE COLD METAL<br>TRANSFER PROCESS<br><i>Aurelian Magda, Cosmin Codrean, Ion-Dragos Utu</i>                                                                                    |
| FRICTION STIR WELDING OF EN AW 1200-EN AW 6082 ALUMINUM<br>ALLOYS<br><i>Radu Cojocaru, Lia Boșilă, Cristian Ciucă</i>                                                                                               |
| EXPERIMENTS REGARDING CAVITATION DAMAGE ON BIPHASIC<br>BRASSES<br><i>Ilare Bordeasul, Ion Mitelea</i>                                                                                                               |
| ESTABLISHING THE EMISSION PROPERTIES OF CONDUCTIBLE<br>SURFACES MACHINED BY APPLYING EDI<br><i>Vladislav Rusnac</i>                                                                                                 |
| APPLICATION OF EDI IN INCREASING DURABILITY OF GLASS<br>MOULDING FORMS POANSONS<br><i>Pavel Topala, Sergiu Mazuru, Vitalie Besliu, Pavel Cosovschii, Alexandr Ojegov</i>                                            |
| PHYSICO-CHEMICAL EFFECTS PROVOKED IN THE PIECE SURFACES<br>DURING MACHINING BY APPLYING ELECTRICAL DISCHARGES IN<br>IMPULSE<br><i>Topala Pavel</i>                                                                  |
| MODELS OF MECHANICAL BEHAVIOUR OF FRICTION STIR WELDED<br>STRUCTURES<br><i>Tiago Gomes, J. PamiesTeixeira, Telmo Santos, Rosa Miranda</i>                                                                           |
| COMBINED FEA AND DESIGN OF EXPERIMENTS IN CASE OF<br>SUBMERGED ARC WELDING OF PIPELINES<br><i>Costica Voicu, Carmen Catalina Rusu, Luigi Renato Mistodie</i>                                                        |
| CORRELATIONS BETWEEN WELDING PARAMETERS AND ARC<br>GEOMETRY IN CASE OF PULSED MIG PROCESS<br><i>Luigi Renato Mistodie, Carmen Catalina Rusu</i>                                                                     |
| THERMOGRAPHY TECHNIQUE IN ARC WELDING PROCESS<br><i>Carmen Catalina Rusu, Luigi Renato Mistodie, Eugen Ghita</i>                                                                                                    |

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|                    | TEMPERATURE FIELD MODELLING OF DOUBLE ARC GMAW PROCESS<br><i>Carmen Catalina Rusu, Luigi Renato Mistodie</i>                                                                                       |
|                    | THE IN-DEPTH ANALYSIS OF DOT PEEN VS. LASER MARKING ON THE NIMONIC 75 ALLOY FOR AERONAUTICAL APPLICATIONS<br><i>Ștefan Rusu, Petrică Vizureanu, Dan-Gelu Găluscă, Ioan Rusu, Aurelian Buzăianu</i> |
|                    | THERMAL SPRAYING APPROACHED BASED ON THE PRINCIPLE OF SUSTAINABLE DEVELOPMENT<br><i>Mihaela Popescu, Carmen Opriș, Ibolyka Bran, Radu Alexandru Roșu</i>                                           |
| <b>13:00</b>       |                                                                                                                                                                                                    |
| <b>13:00/15:00</b> | <b>Coffee &amp; Lunch break</b>                                                                                                                                                                    |
| <b>15:00</b>       | THERMAL SPRAYING ACCORDING TO UE'S REQUIREMENTS FOR ENVIRONMENT PROTECTION<br><i>Mihaela Popescu, Carmen Opriș, Ibolyka Bran</i>                                                                   |
|                    | SLIDING WEAR BEHAVIOUR OF CERMET COATINGS DEPOSITED BY THERMAL SPRAYING<br><i>Carmen Opriș, Viorel-Aurel Șerban, Ibolyka Bran, Mihaela Popescu</i>                                                 |
|                    | MODELING AND SIMULATION OF DIELECTRIC LIQUID ELECTROFILTER<br><i>Constantin-Narcis Ostahie, Tudor Sajin, Dragos-Iulian Nedelcu</i>                                                                 |
|                    | PROPERTIES OF HYDROXYAPATITE BIOCOMPATIBLE LAYERS DEPOSITED BY TWO THERMAL SPRAYING METHODS (APS AND HVOF)<br><i>Ibolyka Bran, Radu Alexandru Roșu, Mihaela Popescu, Carmen Opriș</i>              |
|                    | ON THE DETERMINATION OF THE OPTIMAL MODE OF SATURATION OF A MELT DURING EPITAXIAL GROWTH<br><i>Iurie Ciofu, Andrei Ciofu</i>                                                                       |
|                    | NON-CONVENTIONAL TECHNOLOGY FOR OBTAINING SPECIMENS OF AMORPHOUS ALLOY RIBBONS FOR MECHANICAL TESTS<br><i>Viorel-Aurel Șerban, Florin-Marian Cornea, Cosmin Codrean, Dragoș Buzdugan</i>           |
|                    | EXPERIMENTAL STUDIES ON THE INFLUENCE OF DEEP HARDENING TREATMENT ON THE WELDED JOINTS OF CRYOGENIC STEELS<br><i>Melati Bormambet, Remus Zăgan</i>                                                 |
|                    | CHARACTERISTIC OF THE MECHATRONIC SYSTEM WITH PIEZOELECTRIC ACTUATOR MODELED AS THE COMBINED BEAM<br><i>Andrzej Buchacz, Marek Płaczek</i>                                                         |
|                    | THE MODELLING OF PIPELINE STRESS DURING WATER HAMMER PHENOMENON<br><i>Alexandru Ioan, Leonard Domnisoru, Dumitru Dragomir, Florin Popescu</i>                                                      |
|                    | MODELLING OF THE STRESS(es) PROPAGATION FOR THE BRAZE-WELDING OF THIN STRUCTURES<br><i>Dragos Dană, Petrică Vizureanu, Ioan Rusu, Aurelian Buzăianu, Ștefan Rusu</i>                               |
|                    | INFLUENCE OF TECHNOLOGICAL PARAMETERS OF LASER ENGRAVING ON SHAPE CRATER GLASS SURFACE<br><i>Ciprian Melian, Pascal Deprez, Florin Breabăn, Mircea Lobonțiu</i>                                    |
|                    | DYNAMICS OF THE LIGNITE BASED PRODUCTION OF ELECTRIC ENERGY IN ROMANIA, FROM THE OLTENIA COAL BASIN<br><i>Petru Hreniuc, Gabriel Badescu, Iosif Pasca</i>                                          |
|                    | STUDY REGARDING MOULD PLATES CUTTING WITH THE HELP                                                                                                                                                 |

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| <b>16:30</b> | OF WATER JET CUTTING TECHNOLOGIES<br><i>Ardelean A. Flavius, Mihăilă Ștefan</i>                                                                                                                                                                      |
|              | THE INFLUENCE OF THERMAL BRIDGE EFFECTS ON VACUUM INSULATIONS PANELS<br><i>Adrian-Alexandru Ciobanu, Adrian Iacob, Marian Pruteanu</i>                                                                                                               |
|              | RESEARCHES ABOUT THE INFLUENCE OF RELATIVE DRAWING VELOCITY DURING THE TUBES WITHOUT INSIDE GUARD PROCESSING IN ULTRASOUND FIELD<br><i>Bogdan - Lucian Gavrilă, Mihai Susan, Vasile Bulancea, Elena Chirilă, Bogdan Cojocariu, Oreste Cristodulo</i> |

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

**Room 3**

**Section 6**

Chair: Prof. Alexandru Mardare, Ph.D  
 Co-Chairs: Prof. Alexandru Epureanu, Ph.D.

**Section 8**

Chair: Prof. Alexei Toca, Ph.D  
 Co-Chair: Prof. Laurentiu Ghenghea, Ph.D

| Wednesday<br>May 25 | Papers & Authors<br>Section 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 15:00               | <p>THE STUDY OF RADON CONCENTRATION IN HOMES LOCATED IN ALBA COUNTY<br/> <i>Muntean Lavinia Elena, Manea Daniela Lucia, Cosma Constantin</i></p> <p>APPLICATIONS PRESENTING DIFFERENT TYPES OF SECTIONS USED IN TEACHING TECHNICAL DRAWING<br/> <i>Ramona Clinciu, Mihaela Rodica Clinciu</i></p> <p>A STUDY REGARDING A BETTER RELIABILITY MODELING IN THE CASES OF INCOMPLETE TESTS<br/> <i>Alexandru Boroiu, Viorel Nicolae, Sorin Ilie, Nadia Ilie, Gabriela Mitran</i></p> <p>RESEARCH ON GREEN ENTREPRENEURSHIP MANAGEMENT<br/> <i>Mihaela Luminița Lupu, Ionuț Viorel Herghiligiu</i></p> <p>COMMUNICATION IN TERMS OF THE IMPLEMENTATION OF COST CENTER (CC) IN HIGHER EDUCATION INSTITUTIONS<br/> <i>Mihaela Luminita Lupu, Simona Petronela Epure</i></p> <p>THE BOND GRAPH MODEL CONTAINING DERIVATIVE CAUSALITY<br/> <i>Radu Ibănescu</i></p> <p>THE ADVANTAGES OF DIVISIONAL SHARP WITH TAPE SAW<br/> <i>Valerii Domin, Valeriy Kovalenko, Alexey Domin, Pavel Navka</i></p> <p>RESEARCHES UPON THE STOCHASTIC ANALYSIS OF THE TECHNOLOGICAL EQUIPMENTS EXPLOITATION<br/> <i>Octavian Lupescu, Ionut Popa, Ramona Popa</i></p> <p>IMPLEMENTATION OF INTEGRATED RISK MANAGEMENT SYSTEM IN INDUSTRIAL PROCESS<br/> <i>Alin Constantin Murariu, Niculai Pasca</i></p> <p>RISK MANAGEMENT IN TRANSPORT TRAFFIC STUDY<br/> <i>Gabriela Mitran, Sorin Ilie, Ion Tabacu, Nadia Ilie, Alexandru Boroiu, Viorel Nicolae</i></p> |
| 17:00               | <p>DIGITAL FACTORY: JUST ANOTHER CONCEPT OR A FUTURE INDUSTRIAL REALITY?<br/> <i>Bogdan Pîrvu, Ioan Bondrea, Rareș Marin</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| <b>17:00/17:15</b>         | <b>Coffee break</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>17:15</b>               | <p>COST BENEFIT ANALYSIS FOR QUALITY COST REDUCTION PROJECTS FOR AUTOMOTIVE INDUSTRY<br/> <i>Neagoe Lavinia Nicoleta' Mărăscu Klein Vladimir</i></p> <p>FUNCTIONALLY-ORIENTED TECHNOLOGIES, THEIR MAIN PECULIARITIES AND PROSPECTS<br/> <i>Elena Mikhaylova, Anna Dolgikh, Aleksandr Mikhaylov, Aleksandr Nedashkovskij</i></p> <p>PROJECT MANAGEMENT IN REGIONAL PUBLIC TRANSPORT<br/> <i>Sorin Ilie, Gabriela Mitran, Ion Tabacu, Nadia Ilie, Viorel Nicolae, Alexandru Boroiiu</i></p> <p>RESEARCH ON ACCURACY OF DIFFERENT METHODS REGARDING ESTIMATING RELIABILITY INDICATORS<br/> <i>Sebastian Marian Zaharia' Ionel Martinescu</i></p> <p>DYNAMIC CLOTH SIMULATION BY USING THE PARAMETRIC MANNEQUIN<br/> <i>Raluca Maria Aileni, Daniela Farimă Mihai Ciocoiu</i></p> <p>STUDY OF INFORMATIONAL INTERFACES EXISTING BETWEEN THE TASKS OF A DESIGN PROJECT<br/> <i>Daniel-Constantin Anghel, Nadia Ilie</i></p> <p>PROJECT RESOURCES LEVELING USING PRIMAVERA SOFTWARE<br/> <i>Nadia Ilie, Daniel – Constantin Anghel' Sorin Ilie</i></p> <p>DEVELOPMENTS IN DESIGN AND MANUFACTURE OF BULK METALLIC GLASSES (BMGs) -AN INTRODUCTION IN THE STATE OF THE ART<br/> <i>Eugen Axinte, Corneliu Marius Nastase, Alexandru Barnea' Lorica Axinte</i></p> <p>IMPLEMENTING VALUE ANALYSIS METHOD IN DESIGNING OF FOUNDRY EQUIPMENT<br/> <i>Florin Chichernea</i></p> <p>RISK ASSESSMENT METHOD IN PULP AND PAPER INDUSTRY<br/> <i>Daniela Dorina Fulop, Csaba Gyenge, Istvan Fulop</i></p> <p>IMPLEMENTATION OF PRODUCT LIFECYCLE MANAGEMENT FOR DESIGNING AND MANUFACTURING PROCESSES<br/> <i>Gavril Musca, Elena Muscă, Vasile Merticarur' Claudiu Burian</i></p> <p><b>19:30</b> SOCIALLY RESPONSIBLE INDUSTRIAL MANAGEMENT APPROACH<br/> <i>Dan Săvescu, Mihaela-Georgia Sima' Simona-Clara Bârsan</i></p> |
| <b>Thursday<br/>May 26</b> | <b>Papers &amp; Authors<br/>Section 6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>9:00</b>                | <p>FROM ERGONOMIC DESIGN TO FORENSIC ERGONOMICS<br/> <i>Octavian Ciobanu, Gabriela Ciobanu</i></p> <p>ENSURING INDEPENDENCE IN REDUNDANT DESIGNS<br/> <i>António M. Gonçalves-Coelho, Gabriela Neştian' António Mourão</i></p> <p>SETTING UP A NEW TIME BEHAVIOR MONITORING STRATEGY OF THE TERRAINS LOCATED ABOVE UNDERGROUND PITS<br/> <i>Adrian T.G. Radulescu, Nicolae Dima, Gheorghe M.T. Radulescu, Corina Radulescu Virgil M.G. Radulescu</i></p> <p>RESEARCH ON THE RISK BASED MAINTENANCE PROCEDURE FOR PAPER INDUSTRY<br/> <i>Ancuta Costea, Olimpia Ros' Csaba Gyenge</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                    | STUDY OF BEHAVIOR IN TIMES OF THE BRIDGE KING CAROL I OVER THE DANUBE<br><i>Butisca Anamaria Ioana, Rominu Silvia Mihaela, Blaga Lucian Gabor Ramona</i>                                            |
|                    | DIAGNOSIS OF KNOWLEDGE MANAGEMENT ACTIVITIES IN THE ENGINEERING EDUCATION<br><i>Hanna-Kinga Foldvary-Schramko, Zoltan-Bela Farkas Anca Draghici</i>                                                 |
|                    | <b>Papers &amp; Authors<br/>Section 8</b>                                                                                                                                                           |
|                    | STUDIES ON ANNEALING INTO THE MAGNETIC FIELD OF HIGH-SPEED STEEL<br><i>Nicoleta Torodoc, Ioan Giacomelli, Maria Stoicănescu</i>                                                                     |
|                    | WORKPIECE ELASTIC DEFORMATION AT TURNING<br><i>Teodor Ionuț Tilică, Ovidiu Niță, Laurențiu Slătineanu</i>                                                                                           |
| <b>10:30</b>       |                                                                                                                                                                                                     |
| <b>10:30/11:00</b> | <b>Coffee break</b>                                                                                                                                                                                 |
| <b>11:00</b>       | A NEW REDUCED ORDER TECHNIQUE IN METAL FORMING MODELLING<br><i>Catalina Maier, Alexandru Epureanu, Vasile Marinescu, Viorel Paunoiu, Florin Bogdan Marin</i>                                        |
|                    | METHOD OF MAKING GEARS BASED ON METAL POWDER<br><i>Mardari Alexandru, Stingaci Ion</i>                                                                                                              |
|                    | DEVELOPMENT OF MICROORGANISMS IN SEMI-SYNTHETIC COOLING FLUIDS USED IN METALWORKING<br><i>Alina Ioana Diaconescu, Gheorghe Brabie</i>                                                               |
|                    | JOINING METHODS FOR THIN SHEETS AND COATED THIN SHEETS<br><i>Tiberiu Medgyesi, Mihaela Popescu, Liviu Bereteu, Carmen Opriș</i>                                                                     |
|                    | ANALYSIS OF RESIDUAL STRESS AND SPRINGBACK IN THE CASE OF RECTANGULAR DRAWN PARTS<br><i>Brabie Gheorghe, Nanu Neculai</i>                                                                           |
|                    | DYNAMIC ANALYSIS OF LIGHTWEIGHT STRUCTURES WITH CELLULAR CORE FABRICATED BY EXPANDING SHEET MATERIALS<br><i>Simona Lache, Marian N. Velea, Călin I. Roșca</i>                                       |
|                    | RECONFIGURABILITY OF MULTIPOINT FORMING DIES<br><i>Viorel Paunoiu, Virgil Teodor, Nicusor Baroiu, Catalina Maier</i>                                                                                |
|                    | EFFECT OF PRE-STRAINING ON SPRINGBACK OF SHEET METALS IN U-BENDING<br><i>Bogdan Chirita</i>                                                                                                         |
|                    | COLD WELDING OF TITANIUM WITH OTHER METALS<br><i>Bogdan Georgescu, Elena Scutelnicu</i>                                                                                                             |
|                    | FABRICATION OF CELLULAR CORES BY EXPANDING SHEET MATERIALS<br><i>Marian Nicolae Velea, Simona Lache</i>                                                                                             |
|                    | INFLUENCE OF THE JOINT ON THE CHARACTERISTICS OF THE BEADS OBTAINED USING MECHANIZED GMAW<br><i>Corneliu Rontescu, Dumitru Titi Cicic, Georgeta (Milos) Apostol, Catalin Toma, Mihai Ion Vasile</i> |
|                    | AN INVESTIGATION OF UPSETTING OF BIMETALLIC METALS<br><i>Cenk Misirli, Yilmaz Can</i>                                                                                                               |
|                    | FORMATION OF THE OPTIMUM STRUCTURES OF TECHNOLOGICAL                                                                                                                                                |

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| <b>13:00</b>       | PROCESSES OF PROCESSING ON MACHINE TOOLS OF THE MACHINING CENTER TYPE<br><i>Toca Alexei, Rushica Ion, Stingaci Ion</i>                                                                             |
| <b>13:00/15:00</b> | <b>Coffee &amp; Lunch break</b>                                                                                                                                                                    |
| <b>15:00</b>       | CONSIDERATIONS REGARDING A CONSTRUCTIVE SOLUTION REQUIRED IN FORMING LIMIT DIAGRAMS DETERMINATION<br><i>Ovidiu Niță, Vasile Braha, Teodor Ionuț Tilică</i>                                         |
|                    | THE INFLUENCES OF THE ELECTRO-THERMO-MAGNETIC FIELD COMPONENTS TO THE ELECTRO-SLAG WELDING POOL<br><i>Daniel Visan, Octavian Mircea</i>                                                            |
|                    | RESEARCHES ON METALLIC BELLOWS MANUFACTURING TECHNOLOGY<br><i>Dan Laurentiu Ghenghea</i>                                                                                                           |
|                    | NOVEL RESIDUAL FUELS PHYSICO-CHEMICAL AND COMBUSTION CHARACTERIZATION<br><i>Dana-Cristina Toncu, Paul Roșca, Dorin Bomboș</i>                                                                      |
|                    | STRUCTURE AND OPERATION OF A DOUBLE SCREW MECHANICAL VULCANIZING PRESS<br><i>Cosmina Pöllner</i>                                                                                                   |
|                    | A VIRTUAL ENVIRONMENT MODELING OF THE OPERATION OF A MECHANICAL VULCANIZING PRESS<br><i>Cosmina Pöllner, Răzvan Răceu</i>                                                                          |
|                    | CORRELATION BETWEEN CONSTRUCTIVE AND TECHNOLOGICAL PARAMETERS FOR PROCESSING BY ELECTROMAGNETIC FORMING<br><i>Mihai-Cătălin Mocanu-Andrieș, Traian Grănescu, Iolanda-Elena Manole, Ovidiu Niță</i> |
| <b>16:30</b>       | MECHANICAL PROPERTIES OF ALUMINUM PROCESSED BY SEVERE PLASTIC DEFORMATION<br><i>Adrian Comanici, Radu Comaneci</i>                                                                                 |

## REGISTRATION DESK

The Registration desk will be open beginning Tuesday, May 24, 2011 between 15<sup>00</sup>-21<sup>00</sup> and Wednesday May 25, 2011 between 8<sup>30</sup>-9<sup>45</sup> at Vadul lui Voda, Mail Hotel, Republic of Moldova.

## PARTICIPATION FEE

|                                |                     |
|--------------------------------|---------------------|
| Author or coauthor participant | 180 EUR (incl. VAT) |
| Accompanying person            | 120 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 (25-26 and 26-27 May).

#### Accompanying person fee includes:

- access to all technical sessions
  - coffees
  - breakfasts
  - lunches
  - dinners
- accommodation for two nights (25-26 and 26-27 May).