
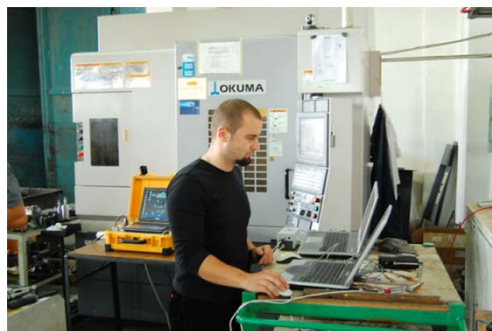


## THE CENTER FOR RESEARCH IN ENGINEERING AND TECHNOLOGY MANAGEMENT

### Contact details

Name	<b>The Center for Research in Engineering and Technology Management</b>
Acronym	<b>CCIMT</b>
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### Areas of expertise

**Applied research in industrial engineering:** a) development of applications in manufacturing processes; b) development of applications in mechanical systems; c) development of applications in technology management;  
**Competitive and pre-competitive research:** a) technological equipment; b) machinery and equipment manufacturing technology; c) special technological processes; d) optimization of the manufacturing technological system; e) monitoring technological systems and equipment; f) information technology integration into production systems (PDM, PLM etc.)  
**Product innovation and technological innovation in engineering and their impact on technology management**  
**Research knowledge capitalization and dissemination**

### Team

**Prof. Dr. Eng. Mircea Lobonțiu**, Prof. Dr. Eng. Vasile Năsui, Prof. Dr. Eng. Radu Iacob Cotețiu, Prof. Dr. Eng. Nicolae Stelian Ungureanu, Prof. Dr. Eng. Adrana Cotețiu, Assoc. Prof. Dr. Eng. Mihai Bănică, Assoc. Prof. Dr. Eng. Horia Cioban, Assoc. Prof. Dr. Eng. Lucian Butnar, Assoc. Prof. Dr. Eng. Flavia Suciuc, Assoc. Prof. Dr. Eng. Dinu Stoicovici, Assist. Prof. Dr. Eng. Marius Cosma, Assist. Prof. Dr. Eng. Ec. Gabriela Lobonțiu, Assist. Prof. Dr. Eng. Sandor Ravai Nagy, Assist. Dr. Eng. Vlad Diciuc  
Phd. student: Eng. Nicolae Medan

### Representative projects

"Increasing the capacity of institutional management for the work of CD&I in engineering and technological management", ANCS  
„Study and solutions regarding the hydraulic calculations made for the treatment plants of the Fierbinți objective”, SC ADISS S.A. Baia Mare, (2012)  
“Competitive research activities regarding the 2+3cm multifunctional truck product and the electrical installation command of the 5mc cesspool emptier”, (2011)  
“Study the solutions to drive mechanically and hydraulically a sewage cleaning equipment on Renault chassis”, SC Grup4 SA., SC ADISS SA., (2012)

### Significant results

#### The most representative publications of the past 5 years:

1. N. Ungureanu, M. Ungureanu, R. Cotetiu, S. Grozav, M. Risteiu, “Contributions Regarding the Mining Drilling Tribo-System”, in *Archives of Mining Sciences*, vol. 56, no. 3, 2011, pp. 527-535

2. M. Lobontiu, V. Hagan, I. Pasca, "Experimental research about evolution of surface roughness and time for different value of radial cutting depth in ball end milling of C45 material", in *ModTech International Conference - New face of TMCR, Modern Technologies, Quality and Innovation-New face of TMCR*, Vadul lui Voda, Chisinau, Republic of Moldova, 25-27 may, 2011
3. I. R. Sugar, M. Banica, "Studies on the Reduction of Motor Vehicles Pollution by the Use of the Ceramic Materials", *Proceedings of ModTech International Conference-New face of TMCR, Modern Technologies, Quality and Innovation-New face of T.M.C.R.*, Slanic Moldova, 20-22 may, 2010, pp. 595-598
4. M. Banica, B. Leganaru, D. Stoicovici, "Identifying potential cluster-type economic agglomerations within Maramures county (ROMANIA)", in *Proceedings of the 6th International Conference on Management of Technological Changes*, september 3-5, Alexandroupolis, Greece, vol. 2, 2009, pp. 5-8
5. R. Cotetiu, A. Cotetiu, V. Nasui, "Career and Guidance Centers and Getting Ready for Technological Change", in *5th Balkan Region Conference on Engineering and Business Education & 2nd International Conference on Engineering and Business Education*, vol. 1, Sibiu, Romania, 2009, pp. 307
6. G. Lobontiu, I. Abrudan, F. Lungu, "Solution for optimizing the managerial work, Management of Technological Changes" in *Proceedings of the 6th International Conference on Management of Technological Changes, Democritus University of Trace*, 3-5 September, Greece, vol. 2, 2009, pp. 537-540
7. M. Lobontiu, A. Petrovan, "Product innovation & preparation for technological diffusion of equipment, Management of Technological Changes" in *Proceedings of the 6th International Conference on Management of Technological Changes*. Democritus University of Trace, Greece, 3-5 September, vol. 2, 2009, pp. 689-692
8. R. S. Nagy, M. Lobontiu, "Approach to the test of flexural strength of the teeth of gears with asymmetric teeth", *Fascicle of Management and Technological Engineering*, vol. 10 (20), no. 2, 2011
9. V. Nasui, R. Cotetiu, N. Ungureanu, "Studies of the performances of dynamic regimen for electromechanic actuators", in *The International Scientific Conference, 10th edition, New Ways in Manufacturing Technologies Proceedings*, 2010, pp. 405-410
10. M. Lobontiu, V. Diciuc, "Aspects regarding the wear of ball-nose end mills", in *9th international conference on advanced manufacturing operations AMO*, in *Proceedings*, 25-27 June, Kranevo, Bulgaria, 2009, pp. 521-526
11. I. R. Sugar, M. Banica, "Ceramic Materials a Solution To Increase Performance of Engines with Internal Burns", in *Academic Journal of Manufacturing Engineering*, vol. 11, no. 3, pp. 82-85
12. V. Diciuc, "A Comparison between the Wear of the Ball Nose End Mill generated in 4 Axes Milling and in 5 Axes Milling" in *Applied Mechanics and Materials*, vol. 371, 2013, pp. 106-110
13. A. Cotetiu, R. Cotetiu, N. Ungureanu, "Research about automatic adjustment solution of the advance force at the perfusion drills using fluid elements", in *Archives of Mining Sciences*, vol. 58, no. 4, 2014, pp 1201-1208
14. G. Lobonțiu, "Planned Obsolescence and the Product Lifecycle", in *Applied Mechanics and Materials*, vol. 371, 2013, pp. 857-861
15. R. S. Nagy, M. Lobonțiu, "Technological Solutions for Manufacturing Gears with Asymmetric Teeth" in *Academic Journal of Manufacturing Engineering*, vol.11, no. 3, 2013, pp. 68-73

**Products and technologies:**

1. The water treatment plants;
2. Multifunctional truck product for sewage cleaning;
3. Technologies for manufacturing of the asymmetric tooth gear.

**The offer addressed to the economic environment**

Research & development	Development of products and equipment needed in the field of wastewater treatment; Product development in the field of wastewater disposal and transport: multifunctional trucks, cesspool emptiers; The study of cutting tools durability for real technological conditions; The study of the machined surfaces' quality depending on the process parameters and on the cutting conditions; Studies and research activities on the mechanical parameters of the components of the industrial systems; Studies and research activities in logistics, maintenance and reliability.
Consulting	Consulting in: manufacturing technologies, product development, Technology Management, human resources issue in Engineering, logistics, maintenance and reliability, Tribology.
Training	Training courses for NCMT operators, usage, programmers; Training in CAD.