

PERSONAL INFORMATION



Mihai Tiberiu Lates

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Sex M | Date of birth 10/11/1974 | Nationality Romanian

WORK EXPERIENCE

- 2021 – Professor
  - 2007 – 2021 Associate Professor
  - 2004 – 2007 Lecturer
  - 2002 – 2004 Assistant
  - 2000 – 2002 Laboratory assistant
- Transilvania University of Brasov, Romania, [www.unitbv.ro](http://www.unitbv.ro)
- Didactic and research activities 2000 –
- Courses thought: Machine Elements, Finite Element Method
- 2003 – Yearly teaching mobilities at VIA University College, Horsens, Denmark
- Laboratories and projects thought: Machine Elements, Finite Element Method, Tribology
- Research activities in the field of:
- Design of Mechanical Components for Solar Tracking Systems.
  - Friction study of the steel/steel and polyamide/steel pairs of materials.
- Software skills:
- 3D Modelling in Catia V5.
  - FEM based static and frequency analysis in Catia V5 and Ansys 15.0.
- Testing skills (tribological tests on tribometer)
- Tribological tests on tribometer equipped with rotary, reciprocating and block-on-ring modules.
  - Developing of test programs on the tribometer.
  - Test data analysis.
  - Design of test rig spare-parts (holders, springs)

EDUCATION AND TRAINING

- 2020 Habilitation
  - 2003 PhD – Mechanical Engineering
  - 1998 – 2003 PhD student
  - 1998 – 1999 Master degree – Mechanical Engineering
  - 1993 – 1998 License degree, Engineer, Industrial Robots
  - 2012 Training ANSYS 14.0
- Post-university courses – Applied informatics
- Transilvania University of Brasov, Romania, [www.unitbv.ro](http://www.unitbv.ro)
- 1997 Technische Universität Dresden, Germany – educational software, german language

PERSONAL SKILLS

Mother tongue Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	B2
Certificate of linguistic competences.					
Hungarian	C1	B2	B2	B2	A2

Organisational / managerial skills Organizing committee member of scientific conferences  
Secretary of the faculty admission commission  
2008 – 2010 - Scientific secretary of the Technological Engineering Faculty  
2016 – 2022 - Vice-dean, Product Design and Environment Faculty

Job-related skills ▪ Machine elements, Finite element method, Tribology

Computer skills ▪ Catia V5, ANSYS 15.0, Nastran/Patran, MS Office, Autocad

Driving licence ▪ B

Marital Status ▪ Married with one child

ADDITIONAL INFORMATION

Courses taught Machine Elements, Finite Elements Method, Mechanical Engineering, Mechanisms and Machine Elements  
Publications 128 articles, 9 books, 1 invention (See *Selected Publications List*)  
Scientific Profiles Google Scholar <https://scholar.google.com/>  
Researchgate <https://www.researchgate.net/>  
Publons <https://publons.com/researcher/1718986/mihai-tiberiu-lates/>  
ORCID <https://orcid.org/0000-0001-8965-2010>  
Reviewer Materials ISSN 1996-1944; Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering ISSN : 2041-2991; Applied Sciences ISSN : 2076-3417  
Projects Team member of 19 projects (1 project manager)  
Supervising of PhD students Member in the supervising committee for 7 PhD students.  
Member in the evaluation of 1 PhD thesis – Minsiter Order nr.9955/05.07.  
Scientific Organizations Romanian Association of Mechanical Transmissions RoAMET  
Memberships Romanian Association of Tribology ART  
Romanian Association of Mechanisms and Machines Science ARoTMM – affiliated to IFToMM (<http://iftomm.net/>).

16.05.2024

Prof. Dr. Eng. Lateş Mihai -Tiberiu



## SELECTED PUBLICATIONS LIST

1. Velicu, R. G., **Lateş, M. T.**, Gavrilă, C. C. Frictional Losses of Polyamides Mounted on Tensioning Guides in Contact with Chains. *Materials*, Vol.15, Issue 4, Article Number: 1345, ISSN 1996-1944, 2022. **WOS:** 000771660500001. **Impact Factor:** 3.4
2. **Lateş, M. T.**, Velicu, R. G., Gavrilă, C. C. Temperature, pressure and velocity influence on the tribological properties of PA66 and PA46 polyamides. *Materials*, Vol.12, Issue 20, . Article Number: 3452, ISSN 1996-1944, 2019. **WOS:** 000498402100173. **Impact Factor:** 3.057
3. **Lateş, M. T.**, Velicu, R. G., Jurj L. Influence of pitch and exploitation on the frictional behaviour of the silent chains. *Proceedings of the Institution of Mechanical Engineers. Part D. Journal of Automobile Engineering*. Article Number: UNSP 0954407019868602, ISSN 2041-2991, 2019. **WOS:** 000481965900001. **Impact Factor:** 1.384
4. **Lateş, M. T.**, Velicu, R., Papuc, R. Testing and FEA as prediction strategies on the ball bearings behaviour. *International Journal of Surface Science and Engineering* Volume: 8 Issue: 4 Special Issue: SI Pages: 345-355, ISSN: 1749-785X, 2014. **WOS:** 000345891000006. **Impact Factor:** 0.184
5. **Lateş, M. T.**, Gavrilă, C. C. Study on the loading capacity of the tripod type couplings with external contacts. *The 8th International Conference on advanced concepts in Mechanical Engineering (ACME) Jun 07-08 2018, Iasi*. Book Series: IOP Conference Series-Materials Science and Engineering. Volume: 444, Article Number: 022020, 2018. **WOS:** 000467443600020.
6. **Lateş M. T.** Study on the friction in the tripod type couplings with external contacts. *The 8th International Conference on advanced concepts in Mechanical Engineering (ACME) Jun 07-08 2018, Iasi*. Book Series: IOP Conference Series-Materials Science and Engineering. Volume: 444 Article Number: 022021, 2018. **WOS:** 000467443600021.
7. **Lateş, M. T.**, Gavrilă, C. C., Papuc, R. Study on the friction in steel/polyamide ball on disk type contacts. *7th International Conference on Advanced Concepts in Mechanical Engineering* Book Series: IOP Conference Series-Materials Science and Engineering Volume: 147, Article Number: UNSP 012037, ISSN: 1757-8981, 2016. **WOS:** 000390720200037.
8. **Lateş, M. T.**, Velicu, R. G., Papuc, R. Sliding friction study of the oscillating translational motion for steel on PA66 and PA46 type materials. *7th International Conference on Advanced Concepts in Mechanical Engineering* Book Series: IOP Conference Series-Materials Science and Engineering Volume: 147, **Article Number:** UNSP 012038, ISSN: 1757-8981, 2016. **WOS:** 000390720200038.
9. **Lateş, M. T.**, Velicu, R. G., Papuc, R. Multiscale modeling of chain-guide contact by using tests and FEM. *11th World Congress on Computational Mechanics; 5th European Conference on Computational Mechanics; 6th European Conference on Computational Fluid Dynamics, Vols II – IV* Pages: 1062-1069, ISBN: 978-84-942844-7-2, 2014. **WOS:** 000353626501031.
10. **Lateş, M. T.**, Velicu, R. Stresses distributions in bush chains. *MODTECH 2012: New Face of TMCR, VolS I and II* Book Series: *International Conference ModTech Proceedings* Pages: 505-508. ISSN: 2069-6736, 2012. **WOS:** 000392261800127.

## INVENTION PATENTS

1. Popa, S., Velicu, R. G., **Lateş, M. T.** Safety clutch with balls. Invention patent nr. 131890/28.07.2023.