





PERSONAL INFORMATION **Horațiu TEODORESCU-DRĂGHICESCU**

 University Transilvania of Brasov  
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Sex Male | Date of birth 07/08/1960 | Nationality Romanian

## OCCUPATIONAL FIELD

**Academic education**

## WORK EXPERIENCE

from Oct. 2015

**Professor**

Transylvania University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department, 29 Eroilor Blvd., 500036 Brasov

- Teaching courses: Experimental Methods in Mechanical Engineering (licence studies, year III); Experimental Methods in Civil Engineering (MEMC Master of Science, year I)
- Teaching and research activities in the field of Mechanics of Composite Materials, Polymer Matrix Composite Structures with applications in automotive and machine construction industries

Type of business or sector: Academic

from Oct. 2007–to Oct. 2015

**Associate Professor**

Transylvania University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department, 29 Eroilor Blvd., 500036 Brasov

- Seminars coordinator in: Advanced Notions of Dynamic Systems (STIM Master of Science, year II); Up-to-date Methods in Testing Advanced Materials (ATV Master of Science)
- Teaching and research activities in the field of Mechanics of Composite Materials, Polymer Matrix Composite Structures with applications in automotive and machine construction industries

Type of business or sector: Academic

from Feb. 2006–to Oct. 2007

**Lecturer**

Transylvania University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department, 29 Eroilor Blvd., 500036 Brasov

- Teaching courses: Up-to-date Methods in Testing Advanced Materials (ATV Master of Science)
- Teaching and research activities in the field of Mechanics of Composite Materials, Polymer Matrix Composite Structures with applications in automotive and machine construction industries

Type of business or sector: Academic

from Oct. 2005–to Feb. 2006

**Assistant**

Transylvania University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department, 29 Eroilor Blvd., 500036 Brasov

- Teaching courses: Up-to-date Methods in Testing Advanced Materials (ATV Master of Science)
- Teaching and research activities in the field of Mechanics of Composite Materials, Polymer Matrix Composite Structures with applications in automotive and machine construction industries

Type of business or sector: Academic

from 2002 – to 2005

**Quality Manager**

- Compozite Ltd., 3 Fântâni Str., 500482 Brasov
- Implementation of ISO 9001 Quality Management System
  - Design and research activities in the field of Composite Materials, Polymer Matrix Composite Structures with applications in aerospace, automotive and telecommunications industries
- from 2000 – to 2002 **Type of business or sector: Research, Design, Production**  
**Design Manager**
- SC Metaloplast SA, Brasov
- Coordinator of design projects in the field of tools, devices and molds
  - Research activities in the field of Composite Materials, Polymer Matrix Composite Structures with various applications
- from 1987 – to 2000 **Type of business or sector: Design, Production**  
**Main Technology Engineer 3<sup>rd</sup> rank**
- Research and Development Institute for Mechanical Equipment ICDEM, Bucharest, 107-111 Oltenitei Blvd., Sector 4, Bucharest
- Research, Design and Testing of Mechanical Equipments
  - Research activities in the field of Composite Materials, Polymer Matrix Composite Structures with applications in defense industry
- from 1985 - 1987 **Type of business or sector: Research, Design**  
**Design Engineer**
- Automotive Enterprise IMASA, Sfântu Gheorghe
- Design of tools, devices and molds

## EDUCATION AND TRAINING

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- from 29 Sep. 2015 **Habilitation degree**
- Transylvania University of Brasov, Faculty of Mechanical Engineering, Mechanical Engineering Department
- Habilitation thesis: Contributions to The Mechanics of Polymer Matrix Composite Materials
- from 8 Sep. – to 12 Sep. 2008 **Training course in Computational and Experimental Mechanics**
- CISM, Udine, Italy
- Advanced courses for engineers „Computational and Experimental Mechanics of Advanced Materials
- from 19 Nov. – to 23 Nov. 2007 **Training course in Optical Measuring Techniques**
- GOM GmbH, Braunschweig, Germany
- Advanced courses for engineers „Optical Measuring Techniques GOM”
- from 2005 – to 2006 **Master of Science in Computational Mechanics**
- Transylvania University of Brasov, Faculty of Mechanical Engineering, Mechanics Department
- Master thesis: Contributions to the mechanics of polymer matrix composite structures
- from June – to July 2002 **Training in Manufacturing Technologies of Composite Structures**
- WOLFANGEL GmbH, Germany
- Manufacturing Technologies of Polymer matrix Composite Structures
- from 1995 – to 2001 **PhD degree in Mechanical Engineering**
- Transylvania University of Brasov, Faculty of Mechanical Engineering, Strength of Materials and Vibrations Department
- PhD thesis: Contributions to the increase of loading capability of fibers reinforced composite tubes by introduction of supplementary internal stresses
- from 1980 – to 1985 **Mechanical Engineer degree**
- Transylvania University of Brasov, Faculty of Technology of Machine Construction
- Mechanical Engineer degree obtained with mark 10

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
German	B1/B2	B1/B2	B1/B2	B1/B2	B1/B2
Language certificate released by Goethe Institute, Bucharest					
English	B1/B2	B1/B2	B1/B2	B1/B2	B1/B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

- Communication skills**
- Team spirit and good communication skills acquired through experience as manager or member of 20 research projects (manager – 3 research grants)
  - Communication skills and competences concerning the knowledge transmission and continuing education gained through experience in the teaching activities within the “Transilvania” University of Brasov, since 2005

- Organisational / managerial skills**
- Experimental characterization/identification/evaluation of the behaviour/ (mechanical, thermal, electrical) properties of mechanical structures and advanced materials
  - Mechanical methods for advanced/multi-layered polymer based composite materials characterization

- Job-related skills**
- Composite materials (particle/fibre) manufacturing based on self-developed/known technologies
  - Industrial abilities in mechanical engineering

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Independent user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user [Digital competences - Self-assessment grid](#)

- good command of Nexygen Plus materials testing software

**Other skills**

- Member in organizing committee of COMEC (2005,2007,2009, 2011, 2013) and COMAT (2006, 2008, 2010, 2012, 2014) conferences with international contribution
- Coordinator of Mechanical Testing Laboratory, Department of Mechanical Engineering within Transylvania University of Brasov

**Driving licence** category: B

**ADDITIONAL INFORMATION**

- Publications:** ▪ Author and co-author of more than 120 scientific articles (13 articles in ISI journals, more than 20 papers ISI indexed). Author and co-author of 8 books
- Research projects:** ▪ Manager or member of 20 research projects (manager – 3 research grants)
- Patents:** ▪ Scutaru M.L., Corneliu Cofaru, **Teodorescu-Draghicescu Horatiu**, Baba Marius, Dogaru Florin - Material compozit hibrid carbon-câneapă și procedeu de obținere al acestuia cu aplicație în industria auto și constructoare de mașini, Patent abstract published in BOPI 4/2104 & Espacenet 2014
- Scutaru M.L., Corneliu Cofaru, **Teodorescu-Draghicescu Horatiu**, Baba Marius, Dogaru Florin - Material compozit hibrid sticlă – țesătură din câneapă și procedeu de obținere al acestuia cu aplicație în industria auto și constructoare de mașini, Patent abstract published in BOPI 8/2104 & Espacenet 2014

**A. PhD Thesis**

PhD in Mechanical Engineering, diploma no. 1085/13.09.2001 released by National Education Ministry, serial B no. 0003960

Thesis title: *Contributions to increase the load-bearing capacity of fiber-reinforced composite tubes by introducing additional internal stresses*

Habilitation in Mechanical Engineering. Thesis title: *Contributions to the mechanics of polymer matrix composite materials*

**B. Books and chapters in books published in the last 10 years**

1. M.L. Scutaru, A. Chiru, S. Vlase, C. Cofaru, **H. Teodorescu-Draghicescu**, *Materiale plastice și compozite în ingineria autovehiculelor*, Editura MATRIX ROM, București, 2013, ISBN 978-606-25-0023-8 (in Romanian)
2. **H. Teodorescu-Draghicescu**, A. Modrea, *Mecanica materialelor compozite*, Editura Universității Transilvania din Brașov, 2013, ISBN 978-606-19-0300-9 (in Romanian)
3. **H. Teodorescu-Draghicescu**, *Mecanică Experimentală*. Editura Universității Transilvania din Brașov, 2015, ISBN 978-606-19-0528-7 (in Romanian)

**C. ISI/BDI papers published in the last 10 years (selection of 5 papers)**

1. **Teodorescu-Drăghicescu, H.**, Vlase, S. – Homogenization and Averaging Methods to Predict Elastic Properties of Pre-Impregnated Composite Materials. Computational Materials Science, Vol. 50, Issue 4, February 2011, ISSN: 0927-0256, Elsevier, p. 1310-1314, Proceedings of the 19th International Workshop on Computational Mechanics of Materials - IWCMM 19, Edited by Eduard-Marius Craciun, Niculae Peride and Siegfried Schmauder. <http://www.sciencedirect.com/science/article/pii/S0927025610002533>
2. **H. Teodorescu-Drăghicescu**, M. L. Scutaru, D. Rosu, M. R. Calin, P. Grigore - New Advanced Sandwich Composite with twill weave carbon and EPS, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 15, No. 3-4, March-April 2013, INOE Publishing House, p. 199-203, ISSN: 1454-4164. <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3177&catid=76>
3. **H. Teodorescu-Drăghicescu**, S. Vlase, M.D. Stanciu, I. Curtu, M. Mihalca - Advanced Pultruded Glass Fibers-Reinforced Isophthalic Polyester Resin, Materiale Plastice, Vol. 52, No. 1, March 2015, p. 62-64, ISSN: 0025-5289. <http://www.revmaterialeplastice.ro/pdf/cuprins%2012015.pdf>
4. D. L. Motoc, **H. Teodorescu-Drăghicescu**, D. Florea, I. Preda, N. Ispas – Insights into Mechanical and Thermal Properties of Additively Manufactured PLA Samples Triggered by Automotive Industry Demands, Mater. Plast., 57 (4), 2020, 193-201; <https://doi.org/10.37358/Mat.Plast.1964>
5. M. D. Stanciu, **H. Teodorescu-Drăghicescu**, I. C. Rosca - Mechanical Properties of GFRPs Exposed to Tensile, Compression and Tensile—Tensile Cyclic Tests, Polymers 2021, 13, 898, <https://doi.org/10.3390/polym13060898>, p. 1-13.

Date: 23.09.2022

Signature:

Prof.dr.eng. Horațiu TEODORESCU-DRĂGHICESCU

