

PERSONAL INFORMATION

Horatiu TEODORESCU-DRAGHICESCU

✉ draghicescu.teodorescu@unitbv.ro

POSITION
IOSUD UTBV

PhD Coordinator
Doctoral studies field: Mechanical Engineering
Since 2015

EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Composite materials with applications in aeronautics, automotive, telecommunications and civil engineering industries; Composite materials with special applications; Mechanics of composite materials; Determination of mechanical properties of composites; Mechanical testing of composite structures

WORK EXPERIENCE

Since October 2015

Professor

Transilvania University of Brasov, 29 Eroilor Blvd., www.unitbv.ro

- Academic and research activities in the field of mechanics of composite materials, testing of polymer matrix composites with applications in automotive, telecommunications, aeronautics, defence and civil engineering industries

From Oct. 2007 – to Oct. 2015

Associate Professor

Transilvania University of Brasov, 29 Eroilor Blvd., www.unitbv.ro

- Academic and research activities in the field of mechanics of composite materials, testing of polymer matrix composites with applications in automotive, telecommunications, aeronautics and civil engineering industries

From Feb. 2006 – to Oct 2007

Lecturer

Transilvania University of Brasov, 29 Eroilor Blvd., www.unitbv.ro

- Academic and research activities in the field of mechanics of composite materials, testing of polymer matrix composites with applications in automotive and civil engineering industries

From Oct. 2005 – to Feb. 2006

Assistant Professor

Transilvania University of Brasov, 29 Eroilor Blvd., www.unitbv.ro

- Academic and research activities in the field of mechanics of composite materials and polymer matrix composite structures with applications in automotive and civil engineering industries

From 2002 – to Oct. 2005

Quality Manager

Compozite Ltd., 500187 – Brasov, 3 Fântâni Str., www.compozitebv.ro

- Design and research activities in the field of composite materials and polymer matrix composite structures with applications in aeronautics, telecommunications, automotive and defence industries

From 2000 – to 2002

Design Manager

SC Metaloplast SA, 38C Ecaterina Teodoroiu Str.

- Prototypes design activities in the field of civil engineering

From 1987 – to 2000

Main Technology Engineer 3rd rank

Research and Development Institute for Mechanical Equipment ICDEM, 107-111 Oltenitei Blvd., sector 4, Bucharest

- Design and testing activities of defence equipment

From 1985 – to 1987 **Design Engineer**
 Automotive Enterprise IMASA, Sfântu Gheorghe
 ▪ Prototypes design activities in the automotive industry

EDUCATION AND TRAINING

September 2008 **Graduation Certificate of the Advanced training course for engineers „Optical Measuring Techniques GOM”**
 GOM GmbH, Braunschweig, Germany
 ▪ Skills in the field of optical measuring techniques GOM

November 2007 **Graduation Certificate of the Advanced training course for engineers „Computational and Experimental Mechanics of Advanced Materials”**
 CISM, Udine, Italy
 ▪ Skills in the field of experimental and computational mechanics of advanced materials

From 2005 – to 2006 **Master in Computational Mechanics**
 Transilvania University of Brasov, Department of Mechanical Engineering
 ▪ Skills in computational mechanics of composite materials

2002 **Specialization in manufacturing technology of composite structures**
 Wolfangel GmbH, Germany
 ▪ Skills in the field of manufacturing technologies of polymer matrix composites

From 1995 – to 2001 **PhD in Mechanical Engineering**
 Transilvania University of Brasov, Department of Mechanical Engineering
 ▪ Skills in research, development and testing of composite materials

From 1980 – to 1985 **Mechanical Engineer**
 Transilvania University of Brasov, Faculty of Machine Construction

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Certificate of linguistic Competence No. 678/07.06.2012 corresponding to level B2					

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

Communication skills ▪ good communication skills gained through my experience as professor

Organisational / managerial skills ▪ Currently, I am responsible for the materials test Laboratory of the Mechanical Engineering Department of the Faculty of Mechanical Engineering
 ▪ Director/responsible for three research-development projects in the field of composite materials in The Transylvania University of Brasov
 ▪ Manager in the prototype design workshop of SC Metaloplast SA Brasov being responsible for a team of 15 persons

- Job-related skills** ▪ Implementation of ISO 9001 Quality Management System within Compozite Ltd., Brasov
- Digital skills** ▪ Independent user of AUTOCAD software
 ▪ Proficient user of NEXYGEN Plus of materials testing software
- Other skills** ▪ Proficient user of Lloyd Instruments materials testing machines within Department of Mechanical Engineering

ADDITIONAL INFORMATION

- Publications** 13 articles published in ISI Web of Science indexed journals; 10 articles published in the International SCOPUS database; Over 110 articles published in the volumes of international conferences
- Honours and awards** Innovative Certificate No. 454/04.11.1988 issued by the Ministry of National Defence. Innovation registered on 04.11.1988 at UM 02550 S Bucharest
- Citations** 60 citations in ISI Web of Science indexed journals
- H Indexes** ISI: 10; SCOPUS: 10; GOOGLE SCHOLAR: 12

ANNEXES

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

1. **Teodorescu-Drăghicescu, H.**, Vlase, S. – Homogenization and Averaging Methods to Predict Elastic Properties of Pre-Impregnated Composite Materials. Computational Materials Science (COMP MATER SCI), Vol. 50, Issue 4, February 2011, ISSN: 0927-0256, Elsevier, p. 1310-1314, Proceedings of the 19th International Workshop on Computational Mechanics of Materials - IWCM 19, Edited by Eduard-Marius Craciun, Niculae Peride and Siegfried Schmauder. <http://www.sciencedirect.com/science/article/pii/S0927025610002533>
2. **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, L., Serbina, L., Calin, M.R. – Hysteresis Effect in a Three-Phase Polymer Matrix Composite Subjected to Static Cyclic Loadings. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 3, March 2011, p. 273-277, ISSN: 1842-6573. <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=60>
3. Vlase, S. **Teodorescu-Drăghicescu, H.**, Motoc, D.L., Scutaru, M.L., Serbina, L., Călin, M.R. – Behavior of Multiphase Fiber-Reinforced Polymers Under Short Time Cyclic Loading. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 4, April 2011, p. 419-423, ISSN: 1842-6573. <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=61>
4. Vlase, S. **Teodorescu-Drăghicescu, H.**, Călin, M.R., Serbina, L. – Simulation of the Elastic Properties of Some Fibre-Reinforced Composite Laminates Under Off-Axis Loading System. Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 4, April 2011, p. 424-429, ISSN: 1842-6573. <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=61>
5. **Teodorescu-Drăghicescu, H.**, Stanciu, A., Vlase, S., Scutaru, L., Călin M.R., Serbina, L. - Finite Element Method Analysis Of Some Fibre-Reinforced Composite Laminates, Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 5, Issue 7, July 2011, p. 782-785, ISSN: 1842-6573. <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=64>
6. Stanciu, A., **Teodorescu-Drăghicescu, H.**, Vlase, S., Scutaru, M.L., Călin, M.R. - Mechanical Behavior of CSM450 and RT800 Laminates Subjected to Four-Point Bend Tests, Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 6, Issue 3-4, March-April 2012, p. 495-497, ISSN: 1842-6573. <http://oam-rc.inoe.ro/index.php?option=magazine&op=list&revid=71>
7. Vlase, S., **Teodorescu-Drăghicescu, H.**, Călin, M.R., Scutaru, M.L. - Advanced Polylyte composite laminate material behavior to tensile stress on weft direction, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 14, No. 7-8, July-August 2012, p. 658-663, ISSN: 1454-4164. <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3073&catid=72>
8. **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, p. 199-203, ISSN: 1454-4164. <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3177&catid=76>
9. A. Modrea, S. Vlase, **H. Teodorescu-Drăghicescu**, M. Mihălică, M.R. Calin, C. Astalos – Properties of Advanced New Materials Used in Automotive Engineering, Optoelectronics And Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 7, No. 5-6, May-June 2013, p. 452-455, ISSN: 1842-6573. <http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2107&catid=78>
10. S. Vlase, R. Purcarea, **H. Teodorescu-Drăghicescu**, M.R. Calin, I. Szava, M. Mihălică - Behavior of a new Heliopol/Stratimat300 composite laminate, Optoelectronics and Advanced Materials – Rapid Communications (OPTOELECTRON ADV MAT), Vol. 7, No. 7-8, July-August 2013, p. 569-572, ISSN: 1842-6573. <http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=2132&catid=79>
11. T. Heitz, **H. Teodorescu-Drăghicescu**, S. Lache, A. Chiru, M.R. Calin – Advanced T700/XB3585 UD carbon fibers-reinforced composite, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 16, No. 5-6, May-June 2014, p. 568-573, ISSN: 1454-4164. <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3474&catid=84>
12. **H. Teodorescu-Drăghicescu**, S. Vlase, M.D. Stanciu, I. Curtu, M. Mihălică - Advanced Pultruded Glass Fibers-Reinforced Isophthalic Polyester Resin, Materiale Plastice (MATER PLAST), Vol. 52, No. 1, March 2015, p. 62-64, ISSN: 0025-5289. <http://www.revmaterialeplastice.ro/pdf/cuprins%2012015.pdf>
13. M. L. Scutaru, **H. Teodorescu-Drăghicescu**, S. Vlase, M. Marin - Advanced HDPE with increased stiffness used for water supply networks, Journal of Optoelectronics and Advanced Materials (J OPTOELECTRON ADV M), Vol. 17, No. 3-4, March-April 2015, p. 484-488, ISSN: 1454-4164. <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=3690&catid=89>

Prof.dr.eng. Horațiu Teodorescu-Drăghicescu

