

PERSONAL INFORMATION

Anghel Vasile Cernescu



JOB APPLIED FOR
POSITION
PREFERRED JOB
STUDIES APPLIED FOR
PERSONAL STATEMENT

Habilitation title

WORK EXPERIENCE

01.07.2020

Lecturer

Politehnica University of Timisoara, Romania

- Teaching course, laboratories and projects on Mechanical Design of Machines and Installations

Business or sector: Education and research

01.07.2018 – 30.06.2020

Marie-Curie Research Fellow

School of Engineering, Cardiff University

- Fatigue damage of high strength steels using acoustic emission technique

Business or sector: Education and research

01.05.2017 - 01.05.2018

Post-doctoral researcher

Vrije Universiteit Brussel, Belgium

- Fatigue characterization of composite materials

Business or sector: Education and research

01.10.2014 – 30.04.2017

Lecturer

Politehnica University of Timisoara, Romania

- Teaching course, laboratories and projects on Mechanical Design of Machines and Installations

Business or sector: Education and research

15.01.2013 – 30.09.2014

Post-doctoral researcher

Aalto University, Department of Applied Mechanics, Finland

- Mechanical and Fatigue behaviour of Metal Sandwich Structures

Business or sector: Education and research

01.05.2010 – 15.01.2013

Post-doctoral researcher

Politehnica University of Timisoara, Romania

- Fatigue and Fracture Mechanics of dental materials, Scanning and Reverse Engineering of dentures, FEM analysis

Anghel Cernescu

Business or sector: Education and research

01.10.2009 – 01.05.2010

Assistant Professor

Politehnica University of Timisoara, Romania

- Teaching seminars and laboratories on Strength of Materials

Business or sector: Education and research

EDUCATION AND TRAINING

01.10.2006 – 30.09.2009

PhD degree

Politehnica University of Timisoara, Romania

- Fatigue and Fracture Mechanics of materials, damage tolerance

01.10.2001 – 01.07.2006

Mechanical Engineering – bachelor’s degree

Politehnica University of Timisoara, Romania

- Mechanics and Strength of Materials, Machine Elements, Finite Element Method, CAD Modelling

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/C2	C1/C2	C1/C2	C1/C2	B1/B2
French	B1/B2	B1/B2	B1/B2	B1/B2	B1/B2

Communication skills •Good communication skills acquired during the teaching activity.

Organisational / managerial skills •Good organizational and managerial skills acquired due to my participation in the research projects as a member of team respectively as director.

Job-related skills •Within the teaching and research activity I have gained theoretical and practical knowledge about the mechanical behaviour of materials and structures. I have acquired skills that led to improvement of my professional profile as academic professor and researcher.

Other skills •Good skills to use: Microsoft Office package, CAD software (CATIA, Solid Works, Solid Edge), FEM softwares (Abaqus, Ansys, Cosmos).

Driving licence B

Anghel Cernescu

Publications

- Anghel Cernescu, Ion Dumitru, Lorand Kun, *Multiaxial fatigue damage prediction in a proportional loading cycle*, The Romanian Journal of Technical Sciences – Applied Mechanics, vol. 65(1), pp. 68-83, 2020;
- B. R. Murray, K. A. Kalteremidou, D. Carrella-Payan, Anghel Cernescu, D. Van Hemelrijck, *Failure characterisation of CF/epoxy V-shape components using digital image correlation and acoustic emission analyses*, Composite Structures, 236, 111797, 2020;
- B. R. Murray, S. Fonteyn, D. Carrella-Payan, K.-A. Kalteremidou, Anghel Cernescu, D. Van Hemelrijck, L. Pyl, *Crack tip monitoring of mode I and II delamination in CF/Epoxyes under static and dynamic loading conditions using digital image correlation*, Proceedings, MDI, 2(8), 389, 2018;
- K.-A. Kalteremidou, E. Tsangouri, Anghel Cernescu, B. R. Murray, L. Pyl, D.G. Aggelis, D. Van Hemelrijck, *Static and fatigue damage characterization of carbon/epoxy angle-ply laminates with the use of acoustic emission and online microscopy*, Proceedings, 2(8), 392, 2018;
- S.G. Mihali, S. Canjau, Anghel Cernescu, C.M. Bortun, H.L. Wang, E. Bratu, *Effects of a short drilling implant protocol on osteotomy site temperature and drill torque*, Implant Dentistry, 27(1): 63-68, 2018;
- C. Dumitru, Anghel Cernescu, I. Eremici, C.M. Bortun, D. Achiriloaiei, *Fatigue behavior of two acrylic denture base resins*, Materiale Plastice, 55(4): 567-570, 2018;
- A.C. Murariu, Anghel Cernescu, I.A. Perianu, *The effect of saline environment on the fatigue behaviour of HVOF-sprayed WC-CrC-Ni coatings*, Surface Engineering, 34(10): 755-761, 2018;
- Anghel Cernescu, *The influence of crack tip shielding on fatigue crack propagation*, Frattura Ed Integrita Strutturale, 41: 307-313, 2017;
- Anghel Cernescu, J. Romanoff, *Bending deflection of sandwich beams considering local effect of concentrated force*, Composite Structures, 134: 169-175, 2015;
- Anghel Cernescu, J. Romanoff, H. Remes, N. Faur, J. Jelovica, *Equivalent mechanical properties for cylindrical cell honeycomb core structure*, Composite Structures, 108(1): 866-875, 2014;
- Anghel Cernescu, L. Marsavina, I. Dumitru, *Structural integrity assessment for a component of the bucket-wheel excavator*, International Journal of Structural Integrity, 5(2): 129-140, 2014;
- Anghel Cernescu, I. Dumitru, N. Faur, N. Branzei, R. Bogdan, *The analysis of a damaged component from the connection system of the wagons*, Engineering Failure Analysis, 29: 93-107, 2013;
- C. Sinescu, L. Marsavina, Anghel Cernescu, *Asymptotic stress field for the interface between teeth and different restorative materials*, Computational Materials Science, 59:57-64, 2012;
- C.M. Bortun, Anghel Cernescu, L. Ardelean, *Mechanical properties of some dental resins in wet and dry conditions*, Materiale Plastice, 49(1): 5-8, 2012;
- Anghel Cernescu, N. Faur, C.M. Bortun, C. Nes, *Fatigue crack growth rate in acrylic resins under variable amplitude loading*, Theoretical and Applied Fracture Mechanics, 56(1): 58-61, 2011;
- Anghel Cernescu, N. Faur, C.M. Bortun, M. Hluscu, *A methodology for fracture strength evaluation of complete denture*, Engineering Failure Analysis, 18(5): 1253-1261, 2011;
- Chincea, Anghel Cernescu, L. Marsavina, V.A. Serban, *Fatigue damage evolution in laminate composites with balsa wood*, Cellulose Chemistry and Technology, 45(5-6): 421-426, 2011;
- L. Marsavina, Anghel Cernescu, E. Linul, D. Scurtu, C. Chirita, *Experimental determination and comparison of some mechanical properties of commercial polymers*, Materiale Plastice, 47(1): 85-89, 2010;

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