CURRICULUM VITAE - LADISLAV STRAKA

MARCH 2023

1 DATE AND PLACE OF BIRTH, NATIONALITY, RESIDENCE

Date and place of birth: 5.3.1975, Hodonin, Czech Republic.
Citizenship: Czech Republic.
Permanent address: Lidická 377, Třeboň, Czech Republic

2 EDUCATION AND DEGREES AWARDED

2007 – D. SC. (TECH.), HELSINKI UNIVERSITY OF TECHNOLOGY

21.8.2007, Espoo, Finland, Passed with distinction. Major: Engineering Physics, Biomedical Engineering. Thesis: Magnetic and Magneto-Mechanical Properties of Ni-Mn-Ga Magnetic Shape Memory Alloys.

1998 – M. SC., BRNO UNIVERSITY OF TECHNOLOGY

29.8.1998, Brno, Czech Republic. Major: Electrical Engineering and Communication.
Thesis: Driving unit for acousto-optical laser deflector.

1993 – ELECTRICAL ENGINEERING HIGH SCHOOL

12.6.1993, Brno, Czech Republic. Major: Computer Engineering.

3 PROFESSIONAL APPOINTMENTS

1/2016 – present: INSTITUTE OF PHYSICS OF THE CZECH ACADEMY OF SCIENCES, CZECH REPUBLIC

Department of Magnetic Measurements and Materials. Senior research scientist.

Project leader in:
TWISTR – Twinned structures in magnetic shape memory alloys 2021–2023
FUNMAH – Novel Functionality of Magnetic Shape Memory Alloys by Magnetic Hysteresis Control, 2017-2018 (Marie Skłodowska-Curie Fellow, H2020-MSCA-IF)
AFUMA – Advanced Functionality of Magnetic Shape memory Alloys by Doping 2016

12/2016 – 11/2022: FACULTY OF MATHEMATICS AND PHYSICS, CHARLES UNIVERSITY, CZECH REPUB.

Senior research scientist and project leader (partial commitment)

Project leader in:
MATFUN (Physics of Martensitic Transformations for the Functionality Enhancement of Crystalline Materials and Nanostructures 2016–2021)

1/2005 – 12/2008 & 1/2010 – 3/2015: AALTO UNIVERSITY SCHOOL OF ENGINEERING, FINLAND

Research scientist in Laboratory of Eng. Materials, Dep. of Engineering Design and Production.

Project leader in:
1340002 – Ultra-Low Twinning Stress Magnetic Shape Memory Alloys, 2010–2013
Project member in:
PNRNPU – Residual stress in Fe, Ni, and Ti- based superalloys, 2014–2015
MMDNLA – Monitoring Material Degradation by Nonlinear Acoustics, 2005–2008
PUHTEET2 – Clean surfaces by photocatalytic activity, 2005–2008

1 – 12/2009: ADAPTAMAT LTD., FINLAND

Research scientist. Characterization (magnetic, microstructural, mechanical, and fatigue properties) and development of magnetic shape memory alloys, and development of scientific instruments.

10/2000 – 12/2004: HELSINKI UNIVERSITY OF TECHNOLOGY, LAB. OF BIOMEDICAL ENG., FINLAND
Research scientist in MSM project (Magnetic shape memory project): magnetic and magneto-mechanical characterization of MSM alloys, and development of scientific instruments.

4 TEACHING, SUPERVISION & INTERNATIONAL MOBILITY IN THE LAST 5 YEARS

2019-2019 A. Armstrong (12 m, supervising upon his abroad internship related to Ph.D. Thesis,)
2021-2022 G. B. Parreirra (B. Sc. Thesis, supervisor specialst)
2018-2023 M. Rameš (Ph.D. Thesis, supervisor specialist)
2020-2021 Paul Lindquist (12 m, international mobility host)
2022-2023 Alexei Sozinov, M. Vinogradova (5 m + 1 m, international mobility host)

5 COMMUNITY ACTIVITIES IN THE LAST 5 YEARS

Reviewing: 2022: J. Mat. Re. Tech, J. Mat. Sci. Tech , 2x Scripta Mat., 2021: Acta Mat. , J. Mag. Mag. Mat., 2020: Met. Mat. Trans. A, 2019: 2x J. Mag. Mag. Mat., Rev. Sci. Inst., 2x Shape Mem. Superelasticity, Metals, J. Alloys Comp., 2018: App. Phys. Lett., Scripta Mat., ...
Conference organization: Member of Local organising cometee of ICFSMA'19 conference (2019)

6 BIBLIOMETRICS (WOS)

Total Publications 92
Patents 2
h-index 30
Average citations per item 28.0

Sum of Times Cited 2574
Without self citations 2,097
Citing articles 1118
Without self citations 1036