Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Ivo Černý**
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E-mail	Ivo.Cerny@seznam.cz (also official)
Nationality	Czech
Date of birth	2 March 1958
Gender	Maile

Work experience

Dates	2014 - onwards
Occupation or position held	Project Manager
Main activities and responsibilities	- Continuation of the previous research and testing activities in the field of material science and engineering (described belolow) as leader of research teams - Co-ordinator of national research projects and SVÚM participation in numerous EU research and development projects (EUREKA, Framework Programmes) - Reviewer of papers for numerous impacted scientific international journals - Evaluator of research and development projects for Czech Grant Agency (basic material research) - Member of editorial boards of international scientific journals (Structural Durability and Health Monitoring (TechScience Press), Recent Patents in Corrosion Science (Bentham Open) - Member of international scientific committees of numerous international worldwide conferences
Name and address of employer	SVÚM a.s., Tovární 2053, 25088 Čelákovice, Czech Republic
Type of business or sector	Experimental material research and testing, testing of components, certification testing in privatized research institute

Dates	1998 - 2014
Occupation or position held	Head of Department
Main activities and responsibilities	- Continuation of the previous research and testing activities in the field of material science and engineering (described belolow) as leader of research teams - Co-ordinator of national research projects and SVÚM participation in numerous EU research and development projects (EUREKA, Framework Programmes) - Reviewer of papers for impacted scientific international journals - Evaluator of research and development projects for Czech Grant Agency (basic material research) - Member of editorial boards of international scientific journals (Structural Durability and Health Monitoring (TechScience Press), Recent Patents in Corrosion Science (Bentham Open) - Member of international scientific committees of numerous international worldwide conferences
Name and address of employer	SVÚM a.s., Podnikatelská 565, Areál VÚ Běchovice, 19011 Praha 9, Czech Republic

Type of business or sector	Experimental material research and testing, testing of components, certification testing in privat research institute
Dates	1986 - 1998
Occupation or position held	Senior researcher
Main activities and responsibilities	Experimental research in the field of material science and engineering: fatigue and fracture of materials and structures, static and dynamic experimental stress analyses, treatment technologies, component safety, reliability and durability, properties and durability of polymer composite materials, certification testing of components for national (Czech) and foreign companies (EU), responsible senior researcher and group leader of national and international European research projects (FP4, EUREKA, INCO Copernicus), industrial projects and contracts.
Name and address of employer	National Research Institute for Materials, transformed later to SVÚM a.s., Praha 9 - Běchovice
Type of business or sector	Experimental material research in state applied research institute, transformed to private joint-stock company later on

Education and training

Dates	2008
Title of qualification awarded	KMM-NoE Integrated Post-Graduate School, Skill Path
Principal subjects/occupational skills covered	Experimental techniques and fatigue modelling of metal-matrix composites
Name and type of organisation providing education and training	University of Hertfordshire, Hatfield, UK
Level in national or international classification	

Dates	1996 – 2002
Title of qualification awarded	PhD.
Principal subjects/occupational skills covered	Thesis Title: *Materials and Components of Wind Turbine Blades, their Mechanical Properties and Methods of Evaluation.* Experimental research of composite materials and damage continuous damage mechanisms during static and fatigue loading at different conditions
Name and type of organisation providing education and training	University of Žilina, Slovakia
Level in national or international classification	

Dates	1977 – 1982
Title of qualification awarded	Diploma Engineer
Principal subjects/occupational skills covered	Thesis Title: *Microcracks Initiation in Various Purity Al-Cu-Mg Alloys*. Published in impacted scientific journal. Fatigue properties of metallic materials, fatigue crack initiation mechanisms, microstructure effects
Name and type of organisation providing education and training	Czech Technical University in Prague, Faculty of Nuclear and Technical Physics
Level in national or international classification	

Personal skills and competences

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C2	C2
Russian	C1	C1	B1	B1	B2
French	A2	A2	A1	A1	A1
German	A2	A2	A1	A1	A1

Mothers tongue: Czech

(*) Common European Framework of Reference (CEF) level

Social skills and competences	Team work: Worked in various teams from research teams (national and international within framework of R+D projects), artistic teams (Prague Philharmonic Choir, Kuhn Mixed Choir, Prague Chamber Choir, Opera Chorus of Theater Görlitz) to sports teams (mountain-climbing club)
Organisational skills and competences	Organised several meetings of EU framework R+D projects, several special international conference sessions.
Technical skills and competences	Described in the parts "Work Experience" and "Education and Training".
Computer skills and competences	- Competent with Microsoft Office programmes - Competent with ALIAS-HIDA programme for probabilistic evaluation of crack growth and safety of component with cracks - Computer programming of computations in the field of crack measurement, fracture mechanics, mathematical statistics and probability in simple programming languages
Artistic skills and competences	Member of semi-professional orchestra "Brixi academic ensemble" in 1977-1983 (first violin), singer in Military Artistic Ensemble" in 1983-1984, Kuhn Mixed Choir 1981 onward, Opera Chorus of Theater Görlitz (2003-2005), occasional external employee of Prague Philharmonic Choir and Prague Chamber Choir, particularly between 1990-2010
Other skills and competences	Member Supervisory Board of the Institute of Physics of Materials of the Academy of Sciences of the Czech Republic Personal car driving (more than 500000 km in EU including UK), travelling
Driving licence	Categories B and A
Additional information	
Annexes	List of publications (more than 70 papers in scientific and technical journals indexed by Scopus and Web of Science), involvement in projects and contracts

Publication:

- Zerbst, U., Beretta, S., KÄhler, G., Lawton, A., Vormwald, M., Beier, H.T., Klinger, C., Černý, I., Rudlin, J., Heckel, T., Klingbeil, D., Safe life and damage tolerance aspects of railway axles - A review 2013 Engineering Fracture Mechanics, **51 citací**

- Linhart, V., Černý, I.: An effect of strength of railway axle steels on fatigue resistance under press fit, Engineering Fracture Mechanics, 2013 , **20 citací**
- Černý, I.: Growth and retardation of physically short fatigue cracks in an aircraft Al-alloy after shot peening, 2012, Procedia Engineering, **11 citací**
- Černý, I., Sís, J., Mikulová, D.: Short fatigue crack growth in an aircraft Al-alloy of a 7075 type after shot peening, 2014, Surface and Coatings Technology
- Černý, I., Mayer, R.M. Fatigue of selected GRP composite components and joints with damage evaluation 2012, Composite Structures **9 citací**
- Černý, I., Sís, J.: Fatigue strength of laser hardened 42CrMo4 steel considering effects of compressive residual stresses on short crack growth, 2014 Procedia Engineering

Projects

- 7E12090 – **7RP EU** Large scale manufacturing technology for high-performance lightweight 3D multifunctional composites, provider: MSMT – Ministry of education youth and sports SVÚM a.s., Ing. Ivo Černý, Ph.D., 2012 – 2015.
- FR-TI3/814 Optimization of laser surface treatment of component for the improvement service life. Provider: MPO – Ministry of industry and trade SVÚM a.s., Ing. Ivo Černý, Ph.D., 2011 - 2014
- ME08118 Characterisation and prediction of stree corrosion of materials for pipelines and nuclear power station. Provider: MSMT – Ministry of education, industry and trade, SVÚM a.s., Ing. Ivo Černý, Ph.D., 2008 – 2011
- OE09006 (**EUREKA)** project : Environmentally friendly and sustainable buses with reduced emissions and noise pollution in urban residential areas, Provider: MSMT- Ministry of Education, youth and sports, Ing. Ivo Černý, Ph.D., 2009 – 2013
- TA02011004 Application of laser technolgies in transport. Provider: TAČRoskytovatel: TA0 - Technologická agentura České republiky, MATEX PM, s.r.o., 2012 -2015:

- TH02010664 Project: Innovative methods of welding of high pressure equipment with use of laser technologies, TAČR Leader: Ing. Ivo Černý, PhD., 2017 - 2020
- TH02011003 Project: Equipment for experimental evaluation of belt resistance against penetration under static and dynamic stress, TAČR, SVÚM a.s., Leader Ing. Ivo Černý, PhD., 2017 - 2020