

CURRICULUM VITAE

Personal Information

Family Name, First Name	Kolarik, Vladislav
Academic Title	doc. Dr.
Date, Place of Birth	25 December 1960, Zlín (CZ)
Private Status	Married since 1990, one child
Nationality	German
Address	Gabelsbergerstr. 15 76135 Karlsruhe, Germany
e-mail	vladislav.kolarik@centrum.cz or v.kolarik@t-online.de



Professional Experience

1996 – now	Senior scientist at Fraunhofer-Institute for Chemical Technology ICT in the research area of High Temperature Materials and Coatings. Acquisition and management of national and international projects, industrial as well as public e.g. EU, German Ministry of Research (BMBF) and NATO
Jan – Dec 1995	Scientist at ABB Research Centre Heidelberg (D) within the BMBF-programme "Talent assurance for Innovation". Research work on oxidation and lifetime prediction of gas turbine coatings
1990 – 1994	Scientist at Fraunhofer ICT, Doctoral thesis and project work on high temperature materials and X-ray diffraction as in situ method
1987 – 1989	Student scientist at Fraunhofer ICT, Diploma work

Education

March 2015	Habilitation at the University of West Bohemia in Pilsen (CZ), Faculty of Mechanical Engineering, on the topic "Coatings for application at high temperature and X-ray diffraction for their in situ study" Title: Docent in Mechanical Engineering
Nov 1989 – Feb 1993	Doctoral Thesis at Fraunhofer-Institute for Chemical Technology ICT, Title: "Application of X-ray diffraction to in situ studies of high temperature corrosion and its kinetics". Supervisor: Prof. Dr. Alfred Rahmel, DECHEMA, Frankfurt / Main (D) Title: Dr. rer. nat., Sep 1993, Technical University RWTH Aachen (D)
Apr 1987 – Jan 1989	Diploma Work (Diplomarbeit) on phase transitions in dry ammonium nitrate studied in situ by X-ray diffraction, performed at Fraunhofer-Institute fur Chemical Technology ICT

Oct 1982 – Dec 1989	Study of Physics at the Technical University of Karlsruhe, now KIT Karlsruhe Institute of Technology, Title: Diplom-Physiker
1971 – 1980	Otto-Hahn-Gymnasium in Karlsruhe (D), German Abitur
1967 – 1971	Elementary School in Roztoky (CZ) and Karlsruhe (D)

Military Service

April 1981 – June 1982	Artillery in Kempten and Philippsburg (D)
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Main Research Activities

Development of high temperature multi-function coating systems on the basis of nano- and micro-particles, slurry based approach

Materials and coatings for solid oxide electrolysis and solid oxide fuel cells (SOE and SOFC)

High temperature oxidation and re-crystallisation effects of FeCrAl alloys for heating elements and automotive catalysts support

Investigation on the phase stability and degradation mechanisms of zirconia based thermal barrier coatings (TBC)

High temperature oxidation and lifetime prediction of MCrAlY coatings for gas turbine application

In field study of material degradation using real structure analysis by two-dimensional X-ray diffraction

Corrosion of alloys under supercritical water oxidation (SCWO)

Introduction of X-ray diffraction as an in situ method for the investigation of high temperature corrosion and development of kinetics evaluation procedures

Language Skills

German – Native speaker

Czech – Fluent / first native language

English – Fluent

Spanish – Fluent

French – Conversant

Interests and Voluntary Activities

2016 – now	Aviation, Private Pilot Licence PPL(A) – SEP, TMG
	Treasurer of Aeroclub Schweighofen-Wissembourg e.V., Schweighofen (D)
	Skiing and Karate