



CURRICULUM VITAE

Tomáš PROŠEK

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EDUCATION

- 1996–2001: Ph.D. study, University of Chemistry and Technology (UCT) Prague, Czech Republic, Department of Metals and Corrosion Engineering; thesis *Influence of heat transfer on localized corrosion of stainless steel*
- 1991–1996: M.Sc. study, Department of Metals and Corrosion Engineering, UCT Prague; thesis *Conversion of ammonium alunite to ammonium sulphate*

EXPERIENCE

- 2022–pres. Associate professor at UCT Prague
- 2016–pres.: UCT Prague; *Head of Department of Metallic Construction Materials at Technopark Kralupy*
Head a corrosion testing laboratory; Lecturer in M.Sc. study programme; Leading Ph.D. students; Research in field of atmospheric corrosion and interaction of materials with hydrogen (project acquisition and coordination); Consultancy services
- 2007–2015: Institut de la Corrosion / French Corrosion Institute, Brest, France; *Research & Development Leader: Building and Infrastructure*
Team leader; Responsibility for project acquisition and execution in field of infrastructure, construction, and building industry with main focus on coil-coated materials and stainless steels; Acquisition and coordination of European projects (6th FP, 7th FP, RFCS)
- 2004–2007: Institut de la Corrosion / French Corrosion Institute, Brest, France; *Senior Researcher and Project Leader*
Corrosion protection of coil-coated materials; Development of novel zinc-based protective coatings; Corrosion monitoring in the atmosphere, development of corrosion sensors; Accelerated corrosion testing and testing under natural weathering conditions
- 2003–2004: UCT Prague; *Lecturer at Department of Metals and Corrosion Engineering*
Corrosion and corrosion engineering with a focus on atmospheric corrosion and protection with coatings
- 2001–2003: RISE (Swedish Corrosion Institute), Stockholm, Sweden; *Guest Post-doc Researcher*
Chromate inhibiting mechanism under conditions of atmospheric corrosion; Inhibitors
- 1999–2001: UCT Prague; *Research Fellow at Department of Metals and Corrosion Engineering*
Participation in scientific and industrial projects

Publication activities

- 76 WoS-listed peer-reviewed papers with 2000+ citations, H-index 26
- 100+ conference and other journal papers
- 100+ presentations at conferences, 16 invited
- 1 patent, 1 pending patent publication

Selected projects

- Development of a system for monitoring of corrosion under insulation, FW12010283 (TREND), TA ČR, 03/2025–12/2027: *Responsible for the scientific part of the project*
- Recycled aluminium alloy coatings with chemically tailored electrochemical potential for safe protection of steel structures, ALCOAT, EC / RFCS, 09/2023–02/2027: *Coordinator*
- Determination of limit hydrogen concentration in a mixture with natural gas for safe use of underground gas storage facilities, Technological Agency of Czech Republic, Programme Théta, 02/2023–12/2025: *Coordinator*
- Technology for production of paint systems for corrosion protection from recycled materials, ZincTechPaint, OP TAK, 01/2023–12/2025: *Coordinator for UCT*
- The role of precipitates in hydrogen transport and hydrogen embrittlement of Al alloys, Grant Agency of Czech Republic, 01/2023–12/2025: *Coordinator*
- Hydrogen embrittlement resistant new steel links solutions for off-shore wind turbines, HELIX, RFCS, 07/2022–12/2025: *Coordinator for UCT*

Other activities

- *Association of Czech and Slovak Corrosion Engineers (AKI)*: Vice-President since 2024, President 2015–2023
- *European Federation of Corrosion (EFC)*: Immediate Past-President since 2025, President 2023–2024; Vice-President 2021–2022; member of the EFC Board of Administrators (BoA) 2013–2019 and since 2021; chairman of the EFC Working Party WP25 *Atmospheric corrosion* 2017–2023
- *European Research Executive Agency (REA)*: Coal and Steel Technical Group TGA 3 Conception of Steel Products, 2023–2025; Steel Advisory Group (SAG), 2025–present
- Member of the Editorial Board of *Metalurgija* of the Croatian Metallurgical Society, *International Journal of Minerals, Metallurgy and Materials* (IJMMM) of the University of Science and Technology Beijing, *Corrosion Protection* of the Polish Association of Chemical Engineers, *Surface Technology* published by Southwest Technology and Engineering Research Institute, Chongqing, China, *Metals* published by MDPI and *Corrosion Protection* published by IPCM
- Member of Ph.D. defence juries at the *Royal Institute of Technology (KTH)*, Sweden; *Pierre and Marie Curie University*, France; *University of Mons*, Belgium; *Technical University of Denmark (DTU)*, Denmark; *Universität des Saarlandes*, Germany; *Université de Lorraine*, France; *University of Manchester*, Great Britain, and *University of Messina*, Italy
- President of conferences *Eurocorr 2017* and 20th *International Corrosion Council*
- Member of scientific committee of conferences *Eurocorr 2018–2024*
- Expert witness to the Federal Court of Australia, 2018 and Korean Patent Court, 2018
- Teaching at UCT Prague, course *Corrosion Engineering*, since 2015

Honours

- Guest Professor at the University of Science and Technology Beijing, China, 2023
- Prize of the Polish Corrosion Society, 2018
- Edward C. Greco Award of the International Corrosion Council for leadership in organization and conduct of the 20th International Corrosion Congress, 2017
- Kurt Schwabe Prize for year 2006 awarded by European Federation of Corrosion (EFC) to young scientists in recognition of the scientific and technical contribution to the field of corrosion
- The Czech Business Council for Sustainable Development Award and Award of EnviOptimum Foundation for 1996

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Provořil Tz.