

# CURRICULUM VITAE

**Pavel LEJCEK**, Prof. Ing., DrSc.

Born April 4, 1950, in Prague

Czech nationality, married, 2 children

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## 1. Education

- 1968–73: Institute of Chemical Technology, Prague field: physical chemistry. M.S. degree (Ing. Title). Diploma Thesis: *Phase equilibria and excess molar volumes in the system tetrahydrofurane + deuterium oxide.*
- 1976–78: Faculty of Mathematics and Physics, Charles University, Prague, three-semester course of metal physics ("postgraduate study"). Thesis: *Diffusion of hydrogen in nickel samples of different structures.*
- 1978–82: Institute of Physical Metallurgy, CSAS, Brno. Ph.D.-type study (CSc. title). Thesis: *Growth of nickel single crystals in the form of thin strips.*
- 1996: Institute of Physics of Materials, AS CR, Brno. Sc.D. level (DrSc. title). Thesis: *Chemical composition and migration of grain boundaries in bicrystals of Fe–Si alloys*
- 2004: Habilitation at the Institute of Chemical Technology, Prague, field: Materials Chemistry, Docent level (Associate Professor). Thesis: *Grain boundary segregation in alpha iron.*
- 2005: Professor of Metallurgy, Institute of Chemical Technology, Prague.

## 2. Engagements

- since 1973: Institute of Solid State Physics, Czechoslovak Academy of Sciences (CSAS), Prague, after fusion in 1979: Institute of Physics, CSAS, Prague, since 1993: Institute of Physics, Academy of Sciences of the Czech Republic
- since 1973: research assistant in the Laboratory of Crystal Growth, Dept of Metals Physics
- since 1982: scientific worker in the Laboratory of Crystal Growth, Dept. of Metals Physics
- since 1987: head of the Laboratory of Crystal Growth (now enlarged Laboratory of Crystal Properties), Dept. Of Metals Physics
- 1988 – 2000: deputy head of the Department of Metals Physics.
- 2000 – 2016: head of the Department of Metals Physics.
- 2012 – 2016: head of the Division of Condensed Matter
- 2002 – 2004: lecturer at the Department of Metals and Corrosion Engineering, Institute of Chemical Technology, Prague
- 2004 – 2005: associate professor (docent) at the Department of Metals and Corrosion Engineering, Institute of Chemical Technology, Prague
- since 2005: full professor at the Department of Metals and Corrosion Engineering, Institute of Chemical Technology, Prague.
- since 2014: visiting professor at Kumamoto University, Kumamoto, Japan.

### 3. Awards

- 1988: Prize of the Czechoslovak Academy of Sciences (Member of the group awarded in the field *Plastic deformation and grain boundary migration in bicrystals*)
- 1997: Japanese Government Research Award for Foreign Specialists
- 2002: Memorial Medal of the Faculty of Metallurgy, Technical University of Kosice, Kosice, Slovakia
- 2020: The Ernst Mach Honorary Medal of the Czech Academy of Sciences for Merit in the Physical Sciences

### 4. Stays abroad

- 1989,1991: Max-Planck-Institute for Metals Research, Stuttgart, Germany (Alexander von Humboldt Fellowship, 1.5 year in total)
- 1992,1994–9: Max-Planck-Society visiting scientist at the Max-Planck-Institute for Metals Research, Stuttgart, Germany (4 weeks to 6 months each year)
- 1997: visiting scientist at the National Research Institute for Metals, Tsukuba, Japan (30 days)
- 1997,1999: visiting scientist at the University of Pennsylvania, Philadelphia, USA (1 month each year)
- 2000: visiting scientist at the Tohoku University, Sendai, Japan (6 weeks)
- 2001: visiting scientist at Ecole Supérieure Nationale des Mines, St. Etienne, France (2 months)
- 2002: visiting scientist at Ecole Supérieure Nationale des Mines, St. Etienne, France (1 month)
- 2005: visiting scientist at the Tohoku University, Sendai, Japan (1 month)

### 5. Membership in Research Societies and Councils

- Alexander von Humboldt Fellow (since 1989, Czech Alexander von Humboldt Club, since 1991)
- Czech Chemical Society (since 2000)
- Czech Association of Crystal Growth (since 2004)
- Member of Editorial Board of *Journal of Trace and Microprobe Techniques* (2001–3)
- Member of Editorial Board of *Surface and Interface Analysis* (2005–2017)
- Member of Editorial Board of *Research Letters in Materials Science* (since 2005)
- Member of Editorial Board of *Advances in Materials Science* (2005–2020)
- Member of Editorial Board of *Metals* (since 2020)
- Member of the Scientific Council of the Institute of Physics, AS CR, Prague (1998–2006, 2002–3: president)
- Member of the Scientific Council of the Faculty of Chemical Technology, Institute of Chemical Technology, Prague (since 2006)
- Elected member of the Academic Assembly of the Academy of Sciences of the Czech Republic (2002–2015)
- Vicehead of the Supervisory Board of the Institute of Physics, AS CR (since 2022)
- Member of the Branch Council *Chemistry and Technology of Materials* of the Institute of Chemical Technology, Prague, CR, for the field *Metallurgy* (since 2000)
- Member of the permanent commission for defense of D.Sc.–Theses in the field *Materials Science and Engineering* (since 2003)

- Member of the permanent Slovak commission for defense of DrSc.–Theses in the field *Materials Science and Engineering* (2003–2021)
- Member of the *International Advisory Board* of the conferences *ECASIA* (since 2004)

#### 6. *Fields of study*

- Growth of single crystals and bicrystals of metals and alloys (melt growth and solid–state techniques)
- Solute segregation at grain boundaries and free surfaces (Auger Electron Spectroscopy)
- Grain boundary migration and corrosion
- Grain boundary engineering
- Nanocrystalline and ultra-fine-grained materials
- Additive manufacturing (3D prin)