

CURRICULUM VITAE

prof. Ing. Jan Jedelský, Ph.D.

Born: in Valašské Meziříčí, Czechoslovakia, July 19, 1971

Education and academic qualification:

1994, Master of Science (Engineer), BUT, FME

2002, Doctor of Philosophy (Ph.D.), BUT, FME, specialization: Transport Engineering

2013, associate professor, BUT, FME: Design and Process Engineering

2019, professor, Brno University of Technology: Design and Process Engineering

Career overview

1994–1997, PhD studies, Department of Internal Combustion Engines and Vehicles, BUT Brno

1997–2001, assistant, Institute of Aut. Engineering, Dept. of Internal Combustion Engines, BUT Brno

1997–2012, assistant, further assistant to professor, BUT, FME

2013–2019, associate professor, further assistant to professor, Brno University of Technology, Faculty of Mechanical Engineering, Technická 2, 61669 Brno, Czech Republic

2019–present, professor, Brno University of Technology, Faculty of Mechanical Engineering

Work Experience:

2002 1 week visiting professor at University of Hertfordshire, UK

2002 PERDAC Spray science & technology course in UMIST, Manchester, UK

2004, 2005 12 weeks and 16 weeks research study at Loughborough University, UK

2005, 2007, 2009 Lovelace Respiratory Research Institute, Albuquerque, NM, USA

2006 1 week Forschungszentrum Rossendorf, Germany

2007, 2009 Clarkson University, Potsdam, NY USA

2013, 2014 École Centrale Marseille/IRPHE CNRS Marseille, France

Selected Academic Activities:

- 2002–present, Member of ILASS Europe,
- 2009–present, Member of Czech Aerosol Society
- 2011–2017, 2019–present, member of board of ILASS Europe
- 2013–2017, Member of evaluation panel P101 – Mechanical engineering, Czech Science agency
- 2014–present, Project rating for The scientific grant agency of the Ministry of Education, Science, Research and Sport of the Slovak Republic and of the Slovak Academy of Sciences (VEGA)
- 2015–2019, Member of SimInhale COST Action MP1404, WG4
- 2015–2017, Member of Departmental Committee of Technical Sciences, Czech Science agency
- 2019 reviewer, member of review board of projects in program INTER-EXCELENCE
- 2019–present, Member of ERCOFTAC SIG48 (Respiratory Aerosols: Therapeutic Interventions and Environmental Exposure) https://www.ercoftac.org/special_interest_groups/
- regular reviewer of >54 IF journals, <https://publons.com/researcher/1231191/jan-jedelsky>

Scientific interests:

- 1998-present, experimental fluid dynamics of single- and multi-phase flows, namely atomization nozzles (R&D of pressure and twin-fluid atomizers); experimental study of internal two-phase gas-liquid flows; gas-flow research; application of laser diagnostic methods PDA, PIV, PLIF
- 2007-present, generation and characterisation of liquid and solid aerosols, transport and deposition of particles in human airways

Industry cooperation

První brněnská strojírna Třebíč, a.s., ERC GmbH Germany, TTS eko s.r.o. Třebíč, Evektor, spol. s r.o., Skoda auto a.s., Busch Vakuum s.r.o., BLOCK a. s., B & M InterNets, s.r.o., VÍTKOVICE

POWER ENGINEERING a.s., Honeywell, spol. s r.o., První brněnská strojírna Velká Bíteš, a.s., EKOL spol. s r.o., Philip Morris Products S.A., MVB OPAVA CZ s.r.o., Provyko s.r.o., ViskoTeepak s.r.o., VZLÚ, SÚJCHBO

Scientific activities:

- Head of the Spray research laboratory and the Laboratory of fluid flow
- co-operation within 20 grant projects, especially under GAČR, EUREKA, COST, FRVŠ, KONTAKT, INTER-EXCELENCE.
- Five Czech national patents, four utility models
- Sum of citations (without self-citations) indexed within: ISI Web of Knowledge 350, other citations 451
- author or co-author of 38 IF papers, 12 papers in peer review j., 74+ contributions in international conferences and 85+ in national conferences, H-index 13
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- https://www.researchgate.net/profile/Jan_Jedelsky