

PERSONAL INFORMATION

Miroslav Píška



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Sex male | Date of birth 08/07/1961 | Nationality CZ

WORK EXPERIENCE

- 2006-till now **Director of Institute of Manufacturing technology, Head of Machining Department**
Institute of Manufacturing Technology, Faculty of Mechanical Engineering BUT, Technická 2896/2, Brno
- 2004-2006 **Vice-Director of Institute of Manufacturing technology, Head of Machining Department**
Institute of Manufacturing Technology, Faculty of Mechanical Engineering BUT, Technická 2896/2, Brno
- 2003-2004 **Director of Institute of Manufacturing technology, Head of Machining Department**
Institute of Manufacturing Technology, Faculty of Mechanical Engineering BUT, Technická 2896/2, Brno
- 1997-2003 **Lecturer**
Institute of Manufacturing Technology, Faculty of Mechanical Engineering BUT, Technická 2896/2, Brno
- 1996-1997 **Post-doctoral research fellow**
Centre of Clinical Sciences, Sheffield University
- 1980-1984 **Technologist**
Slovacke strojirny, Uhersky Brod

EDUCATION AND TRAINING

- 2009 **Prof. (Professor)**
Faculty of Mechanical Engineering BUT, Manufacturing Technology
- 2001 **Doc. (Associate Professor)**
Faculty of Mechanical Engineering BUT, Manufacturing Technology
- 1989 **CSc. (equivalent of PhD)**
Faculty of Mechanical Engineering BUT, Manufacturing Technology
- 1981 **Dipl. Ing.**
Faculty of Mechanical Engineering BUT, Manufacturing Technology

PERSONAL SKILLS

Mother tongue(s) Czech

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Russian	B2	B2	B2	B2	B2
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ managing abilities, communication with employee, staff

Organisational / managerial skills ▪ leadership (14 years of directorship over 65 people)

Job-related skills ▪ Advanced knowledge of production technologies (41 years of experience)

Digital competence Long term experience with CAD/CAM programmes (PowerMill, TurboCAD), MS Office, statistics (MiniTab, Statgraphics)

Driving licence A, B

ADDITIONAL INFORMATION

Research activities

- Analyses of cutting tool performance
- Tribology of tool-chip interface
- Design of tools for machining
- Mechanisms of chip production
- 3D print of metals
- CNC machining
- Optimisation of machining

Publications

- h-index (Scopus): 6
- Total number of records (Scopus): 27
- Sum of Times Cited without self-citation (WoS): 137
- Average Citations per Item (Scopus): 3.19

Bibliographic data of most important scientific results:

- **PISKA, M., TRUBACOVA, P., HORNÍKOVÁ, J., DEBLIR, I.** Analysis of powder steel material, laser sintering technology and machining on surface parameters and fatigue. Analyse von Stahlpulver, Lasersinter-Verfahren und Bearbeitung auf Oberflächenbeschaffenheit und Ermüdung. *Materialwissenschaft und Werkstofftechnik*. 2017 (August), Volume 48, Issue 8. pp. 820–830. Print ISSN: 0933-5137 Online ISSN: 1521-4052. DOI: 10.1002/mawe.201700030. 2016 **impact factor: 0.64**

- DE CHIFFRE, L., TOSELLO, G., **PIŠKA, M.**, MÜLLER, P. Investigation on capability of the reaming process using minimal quantity lubrication 2009. *CIRP Journal of Manufacturing Science and Technology* 2 (1), pp. 47-54 **DOI:** 10.1016/j.cirpj.2009.08.004. **ISSN:** 17555817
number of citations: 16
- MADAJ, M., **PIŠKA, M.** On the SPH orthogonal cutting simulation of A2024-T351 alloy. 2013. *Procedia CIRP*, 8, pp. 152-157. **DOI:** 10.1016/j.procir.2013.06.081. **ISSN:** 22128271
number of citations: 22
- PILNÝ, L., DE CHIFFRE, L., **PIŠKA, M.**, VILLUMSEN, M.F. Hole quality and burr reduction in drilling aluminium sheets. 2012 *CIRP Journal of Manufacturing Science and Technology*, 5 (2), pp. 102-107. **DOI:** 10.1016/j.cirpj.2012.03.005. **ISSN:** 17555817.
number of citations: 11
- **PISKA, M.**, POLZER, A. On the advanced PVD coatings for threading in austenitic steel. 2012. In: 23rd DAAAM International Symposium on Intelligent Manufacturing and Automation. 2012. pp. 831-834 5.
number of citations: 6
- **PISKA, M.**, SLIWKOVA, P. Surface parameters, tribological tests and cutting performance of coated HSS Taps. 2015 *Procedia Engineering* 100(January), pp. 125-134. **DOI:** 10.1016/j.proeng.2015.01.350. **ISSN:** 18777058
number of citations: 4
- SEDLAK, J., RICAN, D., PISKA, M., ROZKOSNY, L. Study of materials produced by powder metallurgy using classical and modern additive laser technology. *Procedia Engineering* 100(January), pp. 1232-1241
number of citations: 11
- SEDLÁK, J., PTÁČKOVÁ, M., NEJEDLÝ, J., **PIŠKA, M.**, ROZKOŠNÝ, L. Material analysis of titanium alloy produced by Direct Metal Laser Sintering .2013. *International Journal of Metalcasting* 7(2), pp. 43-50. **ISSN:** 19395981
number of citations: 12
- **PISKA, M.** Hard Nano-Crystalline Coatings for Cutting Tools. *Trans. Tech. Publ., Series Materials Science Foundations. Zuerich.* 2007. vol. V, 11, pp. 185-188. ISBN 0-87849-830-3. ISSN 1422-3597. **number of citations: 2, 2007 impact factor: 1.565**
- **PISKA, M.**, YANG, L., REED, M. R. SALEH, M. Drilling efficiency and temperature elevation of three types of Kirschner-wire point. *Journal of Bone and Joint Surgery (Br)*, 2002, Nr.1 (January). Volume 84-B-2002. pp. 137-140. ISSN 0301-620X.
number of citations: 23, 2002 impact factor: 1.565

Patents

- **PIŠKA, M.**; MADAJ, M.; VUT v Brně: *Cutting Tool*. EP 2 946 863 B1, patent. (2019)
- **PIŠKA, M.**; JAROŠ, A.; BUT Brno, CZ: Milling cutter with compensative flutes for roughing. 306138, patent. (2016)
- **PIŠKA, M.**; MADAJ, M.; BUT Brno: Cutting tool. 304620, patent. (2014)
- **PIŠKA, M.**; MADAJ, M.; BUT Brno: Drilling tool. 27070, Utility patent. (2014)
- **PIŠKA, M.**; SEDLÁK, J.; CHARVÁT, O.; MADAJ, M.; BUT Brno: Knee implant, especially suitable for knee joint. 21503, Utility patent. (2010)
- **PIŠKA, M.**; OKÁČ, I.; BUT Brno: Drilling tool for biomaterials. 282 216, patent. Brno, Czech Republic (1997)

Selected projects

- GAČR 101/93/0569 (1993-95) – On the technology of drilling and external transosseus fixation in orthopaedics. Grant Agency of Czech Republic. Main researcher.
- The Royal Society/NATO/96B/BLL (1997-98) - On the technology of drilling and external transosseus fixation in orthopaedics. The Royal Society (UK). Main researcher.
- NS97/12/168 (1997-98) – On the effects of advanced K-wire technology on external fixation of fractures. The University of Sheffield (UK). Main researcher.
- GAČR 101/98/0855 (1998-2000) – Technology of new home composite materials Grantová agentura České republiky. Grant Agency of Czech Republic. Co-researcher.

- FRVŠ č. 1585 T.O. H 2000 (2000-01). Innovation of NC laboratory for CAM teaching. MŠMT. Main researcher.
- OP RLZ CZ.04.1.03/3.2.15.1/0075, (2005-2007) - Innovation of study bachelor, masters and doctoral programmes in the field of Manufacturing Technology, Manufacturing Technology and Production Management, Production Technologies and Industrial Management. ESF and MŠMT. Main researcher.
- OP CZ.1.07./2.4.00/12.0029 (2010-2012) - OPUS - Eruditional Network for Production Technologies. ESF and MŠMT. Main researcher.
- TA02011362 (2012-12) - Application of progressive technologies and materials into aerosol cans production. Technological Agency of the Czech Republic. Main researcher.
- CZ.11.07/2.3.00/30.0005. (2012-14) – Excelent young researchers at BUT Brno. MEYS. Tutor.
- CZ.1.05/2.1.00/01.0002 (2010-2013) - NETME CENTRE (New Technologies for Mechanical Engineering). Operational programme Research and Development for Innovation. Co-researcher.
- LO1202 (2014-2018) – NETME CENTRE PLUS (New Technologies for Mechanical Engineering). MEYS. Co-researcher.

Honours and awards

- 2011 Commemorative Medal of the State Sankt-Peterburg Polytechnic University
- 2011 Honorable recognition of the Technical University of Galati for years of scientific cooperation
- 2013 Gold Medal of ENSAM ParisTech, Francie
- 2015 Grand Prix of the TA CZ

Memberships

- 2009– till now, Member of Editorial Board of MM Science Journal
- 2009 – till now, Member of Editorial Board of Advances in Manufacturing Science and Technology (Polish Academy of Science)
- 2016 – till now, Member of Managing Board, Union of The Tool Producers
- 2010-2013, 2017, the member of Evaluation Panel 107 of the Czech Science Foundation (GAČR)

Akademic stays in abroad	
	2007 ENSAM Cluny, France 2007 DTU Lyngby, Denmark 2008 KTH Stockholm, Sveden 2009 ENSAM Cluny, France 2010 DTU Lyngby, Denmark 2011 A&M ParisTech, Cluny, France 2012 State Sankt-Peterburg Polytechnical University, Russia 2017 TU Siegen, Germany