

## CURRICULUM VITAE



**Name:** Stanislav Hosnedl  
**Affiliation:** University of West Bohemia (UWB), Faculty of Mechanical Engineering,  
Department of Machine Design  
**Address:** Univerzitni 8, 306 14, Pilsen, Czech Republic (CZ)  
**Current position:** Professor,  
Chairman of chairmen for PhD studies in Faculty of Mechanical Engineering  
Chairman of the Board for PhD studies in Department of Machine Design  
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**Qualifications & designation:** Ing. (M.Sc.) in Mechanical Engineering, CSc. (Ph.D.)  
in Engineering Design of Manufacturing Machines

**Employment:** 2002 – Professor in Mechanical Engineering, CZ, UWB  
2001 - 2006 Vice-dean of Faculty of Mechanical Engineering, UWB  
1992 – 2001 Assoc. Prof. in Eng. Design of Manufacturing Machines, UWB  
1990 – 2000 Head of Dept. of Machine Design, Faculty of Mech. Eng., UWB  
1981 – 1990 Head of CAE&CAD Department, SKODA Research Centre  
1964 – 1981 Member of R&D Department, SKODA Machine Tools

**Research:** Engineering design of machines and machine elements, theory of technical systems, knowledge integrated engineering design, engineering design science knowledge implementation into CA, machine elements and manufacturing machines.  
Principal investigator of the National Project on an „Research nad development of innovations, design engineering, technology and material engineering of technical products” (1999 – 2004, 12 full time nominal jobs - 34 pers. + 21 PhD st., 145K EUR per year), chief-manager of the EU “Operation Programme - Education for Competitiveness” Project on an “Innovations of Machine Design Engineering including its knowledge based Theoretical, Methodical and Computer support” (2009-2012, 16 part time jobs, 245K EUR per year), and chief- or co-manager of further 26 research and 14 pedagogic projects.  
5 finished and 5 current supervised PhD research students on the above topics.

**Industry projects:** Participation in research and development of more than 30 realized industrial projects of heavy machine tools SKODA (mostly boring and milling machines, lathes and their accessories) that have been successfully exported to and operated in numerous countries all over the world (1964 - 1981).  
Principal author of a large CAE SW package used in a lot of generation versions at the SKODA, Pilsen (1975 -) and UWB, Pilsen (1990 -).  
Several patents in engineering design of heavy-duty machine tools (1975-1980).  
Principal author of a project of long-life engineering design course approved by Czech Ministry of Education, which has been applied several times in industry (1995 - 2000).

**Teaching topics:** Engineering design of machines and machine elements, theory and methodology of integrated engineering design of technical products, supervision of semester projects, and bachelor and diploma theses in engineering design of machine tools, road vehicles and health equipment.

**Affiliations:** International Society for the Science of Engineering Design – WDK BM member (Zuerich, Switzerland, 1992 – 2000), WDK fellow member (Zuerich Switzerland, 1990 – 2000).  
Edit. Board member of the Journal of Eng. Design – Taylor&Francis (London UK, 2000-2006).  
Founding member of the Design Society (DS) (Glasgow UK, 2000 -), DS Advisory Board member (Glasgow UK, 2000-2007),  
Chair of DS AEDS Special Interest Group, CZ (Glasgow UK, Pilsen CZ, 2003-2011),  
Fellow member of UNESCO Int. Centre for Eng. Ed.–UICEE, (Melbourne Australia 1999 -2009)  
Fellow member of the Czech Association of Mechanical Engineers (Prague CZ, 1992 -).  
Committee member of the Czech Society for Machine Tools (Prague CZ, 1995 -).  
Advisory Board and/or Steering Committee member of 16 national and 60 international conferences.  
Co-chair and local organiser of 6 WDK, and chair and organiser of 6 DS AEDS SIG International Workshops in Pilsen, and 4 ones abroad (Paris, Dubrovnik 2x, Stanford)  
Founding and Management Editorial Board member of the Modern Machinery Science Journal – MM SJ (Prague CZ, 2008- )

**Honours:** Bronze Memorial Medal of the Faculty of Mechanical Engineering of the University of West Bohemia for significant merits for its development (Pilsen 2012); Memorial Diploma issued to the 20<sup>th</sup> anniversary of the foundation of the University of West Bohemia (Pilsen 2011); Award of the City of Pilsen (one per year) for research in the field of Engineering Design Science and for innovative activities at the University of West Bohemia (Pilsen, 2010); 1 st gr. Medal of Czech Ministry for Education for complex ped., res. and industr. contributions in Design Eng. in Czech Rep. and abroad (Prague, 2009), American Medal of Honor (Raleigh, USA, 2005), ), Diploma for Significant Contribution in Design Engineering (Cambridge, UK, 2005), WDK 1980 – 2000 Award (Zürich, Switzerland, 2000), ICED Award (Tampere, Finland, 1997).  
Three most close foreign partners received “Doctor honoris causa” titles Dr.h.c. at UWB: Prof. V. Hubka from ETH Zürich Switzerland (1994), Prof. W. E. Eder from Royal Military College Kingston Kanada (2005) and Prof. Dr.h.c. Ing. H. Birkhofer from Darmstadt University of Technology Germany (2012).

**Exemplary publications:** Eder, W.,E., Hosnedl, S.: *Introduction to Design Engineering: Systematic Creativity and Management*. CRC Pr./Balkema, Taylor&Francis Gr., Leiden, Netherlands, 2010, 456 pp, ISBN 978-0-415-55557-9; Eder, W.,E., Hosnedl, S.: *Design Engineering, A Manual for Enhanced Creativity*. CRC Press, Taylor & Francis Group, Boca Raton, Florida USA, 2008. 588 pp. ISBN 978-1-4222-4765-3; Hosnedl, S. and Kratky,J.: *Handbook of Engineering Designer I. and II*, Prague: Computer Press, 1999, 371 pp., ISBN 80-7226-055-3, and 2000, 206 pp., ISBN 80-7226-202-5 (in Czech).

### Selected publications (5 years):

Hosnedl, S., Srp Z.: Sharing Experience in Design Education based on Research and Industrial Practice. In: Proceedings of the 18th International Conference on Engineering Design - ICED11. Programme and Abstract Book, p. 164; Proceedings, Vol 8, p. 287 – 296., A. M. Majer et al.(Eds.). Denmark: TU Denmark, Copenhagen, 15.-18. 8. 2011. ISBN 978-904-670-31-5 (print), ISSN: 2220-4342 (online), 2220-4344 (print), 2223-7941 (USB).

Hosnedl, S., Srp Z.: Effective engineering design research, education and practice in context. In: Selected Articles of the 2nd International Design Conference on Design Engineering and Science - ICDES 2010. Eds. K. Watanuki and T. Kanada. Tokyo, Japan: February 2011, p. 31 -36, ISBN 978-4-9905565-1-8.

Hosnedl S.: Providing a Digital Prototyping Industry Centre of Expertise. In: Class Handouts of the Autodesk University 2010 - AU 2010. Sections ED223-1, ED322-2V and ED328-1V. <http://www.autodeskevents.com/au2010/>. USA, Las Vegas: 10pp; 11.-2.12. 2010

Hosnedl S., Dvořák J., Srp Z., Kopecký M.: Design Specification and Evaluation Tool for Design Engineering and its Management. 11th Int. Conf. Design 2010. Dubrovnik, Croatia: 2010, p.799– 810. ISBN 978-953-7738-07-5

Srp Z., Hosnedl S., Dvorak, J. : Validation of Comparison and Prediction of Properties of Constructional Specimens. In: Proceedings of the CADAM 2009, Hotel Arkada, Stari Grad on island Hvar, Croatia, 22. - 26. 09. 2009, p. 61 - 62. ISBN978-953-7142-38-4.

Dvorak, J., Srp Z., Hosnedl, S. Roubal J.: Application of Target Costing and Comparison with the Theory of Technical Systems. In: Proceedings of the CADAM 2009, Stari Grad, Croatia, 22.- 26. 09. 2009, p. 15 - 16. ISBN 978-953-7142-38-4.

Hosnedl, S., Kratky, J., Kronerova, E.: Innovations in Machine Elements Education at the University of West Bohemia in Pilsen. In: Proceedings of Abstracts and CD Proceedings of the 50<sup>th</sup> Conference of Departments of Machine Parts and Mechanisms. Eds.: V. Konstantova, M. Leitman. Terchova, Slovak Republic: Zilina University in Zilina, 8.-10.9.2009. Abstract: p. 81, ISBN 978-80-554-0080-8; CD Proceedings, ISBN 978-80-554-0081-5

Hosnedl, S., Srp, Z. Dvořák, J.: Technical Products and their Attributes – Theory and Practical Applications. In: MM Science Journal, Vol. 1, No 4, December 2008, p. 58 - 62. ISBN 1803-1269.

Hosnedl, S., Srp, Z. Dvořák, J.: Technical Products and their Attributes – Theory and Practical Applications. In: Proceedings of the 11th Applied Engineering Design Science Workshop - AEDS 2008. Eds.: V. Vaněk, S. Hosnedl, J. Bartak. Pilsen: Educational and Research library of Pilsen Region: AEDS SIG and ZČU-KKS, University of West Bohemia, 31.10.-1.11.2008. p. 109 - 120. ISBN 978-80-7043-6875-1.

Hosnedl, S., Dvořák, J., Srp Z.: Property Driven Designing of Technical Products. In: Proceedings of the KCMS2008 - 49. Konference kateder částí a mechanismů strojů (49. International Conference of Departments of Machine Elements and Mechanisms). Srni, Czech Republic: University of West Bohemia, Department of Machine Design (CZ), 8 – 10. 9. 2008, p. 91 - 94. ISBN 978-80-7043-718-6.

Hosnedl, S., Dvořák, J., Srp Z.: Heterogeneity of constructional specimens. In: Proceedings of the CADAM 2008 – 6th International Conference on Computer Aided Design and Manufacturing. . Eds.: B. Obsieger. Univ. of Rijeka, Croatia: Krk, Croatia, 16 – 20. 9. 2008, p. 15 - 16. ISBN 978-953-7142-36-0.

Hosnedl, S., Srp Z.: Helping Engineering Designers Compare Properties of Materials In: Proceedings of the CADAM 2008 – 6th International Conference on Computer Aided Design and Manufacturing.. Ed: B. Obsieger. Univ. of Rijeka, Croatia: Krk, Croatia, 16 – 20. 9. 2008, p. 17 - 18. ISBN 978-953-7142-36-0.

Hosnedl, S., Srp Z., Dvořák, J.: Cooperation of Engineering & Industrial Designers on Industrial Projects. In: Proceedings of the DESIGN 2008 - 10th International Design Conference. Eds.: D. Marjanovic, M. Storga, N. Pavkovic, N. Bojtecic. Dubrovnik, Croatia: University of Zagreb (HR) and Design Society (UK), 19 – 22. 5. 2008, p. 1227 - 1234. ISBN 978-953-6313-89-1

Hosnedl, S., Marek, J.: Creative Designing of Machine Tools - Contextually. Journal of Machine Engineering. Editorial Institution of the Wroclaw Board of Scientific Technical Societies Federation NOT. Poland, Wroclaw. Vol. 8, No 1, 2008. p. 94-103. ISSN 1892-7595.

12th of February 2013, Pilsen, Czech Republic



Prof. Dr.-Ing. Stanislav Hosnedl