Curriculum vitae

Name	**prof. Ing. Václav Sklenička, DrSc.**
Affiliation to IPM	**CEITEC UFM**
Position in team	**Key member**
Role and tasks	• Coordinates part of project focused on mechanical and creep properties of metallic materials and composites • Research specialization: creep of materials, mechanical and creep properties of metallic materials and composites, creep damage and fracture, microstructure analysis

1. Education and academic qualification

- 1998: Full Professor, Materials Science, Technical University of Ostrava, Czech Republic
- 1994: Associate Professor, Habilitation in Materials Science and Engineering, Brno University of Technology, Czech Republic
- 1986: DrSc (DSc), Physical Metallurgy, Czechoslovak Academy of Sciences, Prague, Czechoslovakia
- 1972: CSc (PhD), Physical Metallurgy, Czechoslovak Academy of Sciences, Prague, Czechoslovakia
- 1962: Dipl.-Ing (MS), Mechanical Engineering, Czech Technical University of Prague, Czechoslovakia

2. Career overview

- At present : Senior Principal Research Worker in the scientific group: Advanced High-Temperature Materials,Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic
- 2001-2012: Deputy Director, Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic
- 1993-2001: Director, Institute of Physics of Materials, Academy of Sciences of the Czech Republic, Brno, Czech Republic
- 2004-2009: Chairman of the Council for Technology Transfer of Academy of Sciences ,Prague
- 1985-2001: Chief Research Fellow, Institute of Physical Metallurgy, Academy of Sciences of the Czech Republic
- 1967-1984: Senior Research Fellow, Institute of Physical Metallurgy, Czechoslovak Academy of Sciences, Brno, Czechoslovakia
- 1963-1966: Research Fellow, The Iron and Steel Institute, Prague, Czechoslovakia

3. Research and development, experience

- Research areas: mechanical and creep properties of metallic materials and composites, creep damage and fracture, microstructure analysis, processing and properties of ultrafine-grained and nanostructured materials.
- Proposer and executor of R&D projects.

4. Relevance and interconnection of current research activities with goals, programmes and activities of the project, potential for successful realization of the project

- Experiences in leading organisation and research team.
- Investigator of several project of the CSF, TACR, MPO
- Experiences from abroad stays
- Long term cooperation with national and foreign research organisations and companies

5. Sum of citations (according to WoS) total/without self-citations

1 839 / 1 426

6. h-index:

20 (WoS)
21 (Scopus)

7. 5 selected publications

- V. Sklenička, K. Kuchařová, m. Svoboda, L. Kloc, J. Bursík, A. Kroupa: Long-term creep behaviour of 9-12%Cr power plant steels, Materials Characterization,51 (2003) 45-48.(the most cited paper -270 citations WoS)
- Sklenička V., Kuchařová K., Kvapilová M., Svoboda M., Král P., Vidrich G.: Creep in an electrodeposited nickel. J. Mater. Sci. 48 (2013) 4780-4788.
- Sklenička V., Kuchařová K., Svobodová M., Kvapilová M., Král P., Horváth L.: Creep properties in similar weld joint of a thick-walled P92 steel pipe. Mater. Character. 119 (2016) 1-12.
- V. Sklenicka, K. Kucharova,M. Svoboda, M. Kvapilova, P. Kral, J.Dvorak: Creep behaviour of IN 740 alloy after heat-affected zone thermal cycle simulation, Int. Journal of Pressure Vessels and Piping, 178 (2019) 71-82.
- V. Sklenicka, P. Kral, J. Dvorak, Y. Takizawa, T. Masuda, Z. Horita, K. Kucharova, M. Svobodova: Effects of Grain Refinement and Predeformation Impact by Severe Plastic Deformation on Creep in P92 Martensitic Steel, Advanced Engineering Materials, 22 (2020), No. 1900448.

8. Publications, monographs and chapters in books (selection)

Published more than 300 international publications, 202 of them in international journals and processing of international conferences (WoS), 4 books, 6 chapters in books, 4 patents, sum of times cited: 1839(SCI), H-index: 20.

9. Projects and grants (executor or co-executor, selection)

Since 1992 he has been principal investigator of 31 international (COST, NSF -USA, Czech-German projects) and national (GA AV ČR, GA ČR, TA ČR, MŠMT ČR) research projects in Materials Science and Engineering,for example:

- Experimental research and modelling of modified fuel cladding under LOCA conditions, TH 02020477, TACR, 2016-2020
- Research and Development of Nickel and Cobalt Based Superalloys Castings, FV10699, MIT, 2016-2019.
- Creep damage mechanisms in advanced tungsten modified 9%Cr ferritic steel, 16-09518S, CSF, 2016-2018.

10. Cooperation with industry and with other users of outcomes of R&D (selection)

- Team member in several projects with industrial partners, e.g. MIT, TACR
- Cooperation on R&D with companies, e.g. VoestApline GmbH, UJP Praha, a.s., PBS Velká Bíteš a.s.

11. Awards and membership in international and national organizations, platforms

Honors and awards:

- Gold Medal for Science, Masaryk University, Brno, Czech Republic
- Elected Member, European Academy of Sciences, Brussels, Belgium
- Honorary Member of of St. Petersburg Engineering Academy, St. Petersburg, Russia
- Silver Medal for Materials Science, President of Slovak Academy of Sciences, Bratislava, Slovakia
- Golden Medal for Science, Brno University of Technology, Brno, Czech Republic,
- Silver Medal for Materials Science and Engineering,Slovak Academy of Science, Institute of Materials Research, Košice, Slovakia
- Honorary Medal „De Scientia et Humanitate Optime Meritis“, Czech Academy of Science, Praha, Czech Republic.

Member of Councils for Science in the following Institutions:

- Brno University of Technology, Brno (1992–1999)
- Institute of Metallurgical Processes, Czech Academy of Sciences, Ostrava (1992–1994)
- Technical University of Ostrava, (1998-2006)
- Institute of Experimental Metallurgy, Slovak Academy of Sciences, Košice, Slovak Republic (1996-)
- Welding Research Institute – Industrial Institute of SR (2012-),Bratislava