



Błażej Skoczeń

Academic degrees : doctor habilitatus in Engineering, prof. of CUT

Position : Professor

Engineering - technical field

Discipline Mechanical engineering

Academic qualifications:

Cracow University of Technology, head of Institute of Applied Mechanics (2009-2017); head of Section of Solid Mechanics (2013-2017), head of Centre for Particle Accelerators Design (since 2007); Senate of CUT: member (since 2012).

Membership in professional and academic boards :

European Organization for Nuclear Research CERN / Geneva, Section Leader (2000-05); Committee on Mechanics of the Polish Academy of Sciences: member (from 2007), vice-chairman (from 2016); PAU Technical Sciences Committee, member (since 2014); Ministry of Science and Higher Education: Committee for Evaluation of Scientific Units, KEJN: member (2013-19), chairman of the Commission for Exact and Engineering Sciences KEJN (2017-19), International Center for Mechanical Sciences, CISM / Udine: member of Board of Directors (from 2017), member of General Assembly (from 2017); member of Evaluation Commission appointed by the High Council for Evaluation of Science and Higher Education, HCÉRES / Paris (2016, 2018, 2019); Scientific Council of the National Center for Nuclear Research NCBJ, member (from 2017); Polish Society of Theoretical and Applied Mechanics, member (from 2018); Polish Congress of Mechanics, chairman of the Organising Committee (2019); Ministry of Science and Higher Education: Science Evaluation Committee KEN, chairman (from 2019); Polish Academy of Sciences: Board of Curators at the Faculty of Technical Sciences of PAS, member (from 2019); PAS correspondent member (from 2020), Institute of Nuclear Physics of PAS, member of Scientific Council (from 2020); Institute of Fundamental Technological Research of PAS, member of Scientific Council (since 2020).

Academic merits :

(I) Selected international projects (management or coordination functions): the Large Hadron Collider project, CERN, Geneva, LHC (<http://cds.cern.ch/>), 1992-2005; FAIR project, Facility for Antiproton and Ion Research, GSI Gesellschaft für Schwerionenforschung, Darmstadt, 2006-2009; EUROnu project, High Intensity Neutrino Oscillations Facility in Europe, EU FP 7, 2009-2012; TIARA project, Test Infrastructure and Accelerator Research Area, EU FP 7, via IFJ PAN, 2010-2013. (II) Selected national projects: leader of the cycle of projects on the constitutive modeling of materials operating at extremely low temperatures: PB4T07A02730, 2006-2009; 2284/B/T02/2011/40, 2011-2014; UMO-2013/11/B/ST8/ 00332, 2014-2017; UMO-2017/27/B/ST8/00298, 2018-2021; (III) author of series of 25 publications on new, physically justified, multi-scale constitutive models of metastable materials used at extremely low temperatures (2000-2019). (IV) Selected publications: Skoczeń, B.T., Compensation systems for low temperature applications, Springer-Verlag, 2004; Garion, C., Skoczeń, B., Sgobba, S., 2006, Constitutive modeling and identification of parameters of the plastic strain-induced martensitic transformation in 316L stainless steel at cryogenic temperatures, Int. Journal of Plasticity, 22, 7; Skoczeń, B., 2007, Functionally graded structural members obtained via the low temperature strain induced phase transformation, Int. Journal of Solids and Structures, 44, 16; Skoczeń, B., Bielski, J., Sgobba, S., Marcinek, D., 2010, Constitutive model of discontinuous plastic flow at cryogenic temperatures, Int. Journal of Plasticity, 26, 12; Skoczeń, B., Bielski, J., Tabin, J., 2014, Multiaxial constitutive model of discontinuous plastic flow at cryogenic temperatures, Int. Journal of Plasticity, 55; (V) Scientific indexes: WoS, Scopus: H = 12.

Professional qualifications/language skills

English, French, German, Russian

Research field :

mechanics and solid state physics, structural mechanics, mechanics of materials, materials engineering, machine design, thermodynamics, constitutive modeling of materials for extremely low temperatures, particle accelerators design.

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Useful links :

<https://cds.cern.ch/>