

Short Biosketch of Zdeněk P. Bažant

May 30, 2021

Born and educated in Prague (Ph.D. 1963), Bažant joined Northwestern University in 1969, became Professor in 1973, and served as Director of Center for Geomaterials (1981-87). Since 1990 he has been W.P. Murphy Professor of Civil and Mechanical Eng. and Materials Science, and since 2002 concurrently McCormick Institute Professor. He was inducted to the US National Academy of Sciences, US National Academy of Engrg., Am. Acad. of Arts & Sciences, Royal Society London, Austrian Academy of Sciences, Eng. Academy of Japan, Italian National Academy (dei Lincei), Spanish Royal Acad. of Engrg., Istituto Lombardo (Milan), Acad. of Engrg. of Czech Rep., Acad. of Athens, Indian Nat. Acad. of Engrg. and Academia Europaea (London). He was editor-in-chief of ASCE J. of Engrg. Mechanics, and is Regional Editor of Int. J. of Fracture; was president of Soc. of Engrg. Science, founding president of IA-FRAMCOS and of IA-CONCREEP; Division Director in IA-SMiRT; member of US Nat. Comm. on Theor. & Appl. Mech.; and chaired many committees in ASCE, RILEM, ACI, SES and IA-SMiRT. He is an Illinois Registered Struct. In 2015, ASCE created ZP Bažant Medal for Failure and Damage Prevention. His honors: Austrian Cross of Honor for Science and Art I. Class, from Austrian President, 2016; 7 honorary doctorates—CTU Prague, UC Boulder, Politecnico di Milano, TU Karlsruhe, INSA Lyon, TU Vienna, Ohio State Univ., Columbus; Honorary Member of ASME, ASCE, ACI and RILEM; SES Prager Medal; ASME Medal, ASME Timoshenko Medal, Warner Medal and Nádai Medal; ASCE von Kármán Medal; Freudenthal Medal, Newmark Medal, Biot Medal, Mindlin Medal, Croes Medal, Lifetime Achievement Award, Huber Prize and TY Lin Award; Outstanding Research Award from ACS (Am. Soc. for Composites); Exner Medal (Austria), Torroja Medal (Spain); RILEM L’Hermite Medal; Šolín, Bažant (Sr.) & Stodola Medals (Czechia, Slovakia); IACMAG Outstanding Contrib. Award; ICOSSAR Lecture Award; SEAOL Meritorious Paper Award; Best Engrg. Eng. Book of the Year (SAP); Medal of Czech Soc. for Mech. (which also created ZP Bažant Prize for Eng. Mech.); National Winner of 1955 Math. Olympics of Czechoslovakia; and Guggenheim, NATO, Ford, Humboldt, JSPS & Kajima Fellowships. Honored by Special Issues of Int. J. of Solids & Structures and Int. J. of Fracture, and by 60th, 70th, 75th and 80th birthday workshops & Proc. He authored 8 books (on concrete creep, hygrothermal effects, scaling of structural strength, inelastic analysis, fracture and size effect, quasibrittle probabilistic mechanics, stability of structures, concrete at high temperature). In 2019 Stanford U. weighted citation survey, he was ranked no.1 in CE and no.2 in Engrg. worldwide (<https://doi.org/10.1371/journal.pbio.3000918>). H-index: 138, citations: 82,000, i10 index: 665 (on Google 1/2021, incl. self-cit.). He is one of the original top 100 ISI Highly Cited Scientists in Engrg. (www.ISIhighlycited.com). In Czech Rep. CSM awards Bažant Prize for Enrg, Mech., and ASCE established ZP Bažant Medal for Fracture and Damage Prevention. His 1959 mass-produced patent of safety ski binding is exhibited in New England Ski Museum in Franconia, NH.

Home: <http://cee.northwestern.edu/people/bazant/> . Medal: <http://www.asce.org/templates/award-detail.aspx?id=11613>