

Short Biosketch of Zdeněk P. Bažant

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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 Concrete 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. Engineer. In 2015, ASCE created ZP Bažant Medal for Failure and Damage Prevention. In Czech Rep. there is Bažant Prize for Engrg. Mech. 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 Nádaí Medal; ASCE von Kármán Medal; ASCE Freudenthal Medal, Newmark Medal, Biot Medal, Mindlin Medal, Croes Medal, Huber Prize, Lifetime Achievement and TY Lin awards; 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; ICOSAR Lecture Award; 2 SEAOL Meritorious Paper Awards; Best Engrg. Eng. Book of the Year (SAP); Medal of Czech Soc. for 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 9 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, quasibrittle fracture). In 2019 Stanford Univ. *weighted* citation survey* of 6 million authors, he was ranked worldwide no.1 in CE and no.2 in engineering of all fields. 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/>

* <https://www.mccormick.northwestern.edu/civil-environmental/news-events/news/articles/2018/bazant-ranking.html>