

## 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 (by courtesy) 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., Academia Europaea (London) and EASA. 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. In 2015, ASCE created ZP Bažant Medal for Failure and Damage Prevention, and in 2023 ASME created ZP Bažant Medal for contributions to mechanics. 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; 9 honorary doctorates—CTU Prague, UC Boulder, Politecnico di Milano, TU Karlsruhe, INSA Lyon, TU Vienna, Ohio State Univ., Univ. of Minnesota and UPPA Bayonne-Anglet France; Honorary Member of ASME, ASCE, ACI and RILEM; received SES Prager Medal; ASME Medal, Timoshenko Medal, Nádai Medal and Warner Medal; ASCE von Kármán Medal, Freudenthal Medal, Newmark Medal, Biot Medal, Mindlin Medal, Croes Medal, Huber Prize, Lifetime Achievement and TY Lin awards; also Murray Medal & Lecture (Am. Soc. Exper. Mech.); Outstanding Res. Award from ACS (Am. Soc. for Composites); Exner Medal (Austria), Torroja Medal (Madrid); RILEM L'Hermite Medal; Šolín, Bažant Sr. & Stodola Medals (Czechia, Slovakia); IACMAG and ICMD Outstanding Contrib. Awards; ICOSSAR Lecture Award; 2 SEA01 Meritorious Paper Awards; Best Engrg. Eng. Book of the Year (SAP); Medal of Czech Soc. for Mech.; Guggenheim, NATO, Ford, Humboldt, JSPS & Kajima Fellowships. National Winner of 1955 Math. Olympics of Czechoslovakia. He is an Illinois Registered Struct. Engineer. Honored by Special Issues of Int. J. of Solids & Structures and Int. J. of Fracture, and by 60<sup>th</sup>, 70<sup>th</sup>, 75<sup>th</sup> and 80<sup>th</sup> 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 250,000 engineering authors, he was ranked worldwide no.1 in CE and no.2 in engineering of all fields: in a similar survey by Elsevier in 2022 again no. 1 in CE. Citations: 95,000; H-index: 149 (since 2018: 85), i10 index: 708 (all on Google, incl. self-cit.). His 1959 mass-produced patent of safety ski binding is exhibited in New England Ski Museum, Franconia, NH.

Home: <http://cee.northwestern.edu/people/bazant/>

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