

BIOGRAPHICAL SKETCH OF ZDENĚK P. BAŽANT

December 4, 2018

a) Professional Preparation

C.E. (Civil Engineer), Czech Techn. Univ. Prague (CTU) Prague (1st in class), 1960.

Ph.D. in Engineering Mechanics, Czechoslovak Academy of Sciences Prague, 1963.

Postgraduate Diploma in Theoretical Physics, Charles University, Prague, 1966.

Docent habilitatis in Concrete Structures, CTU Prague, 1967.

b) Appointments

McCormick School Professor (a chair held simultaneously with Murphy chair), 2002–.

W.P. Murphy Professor of Civil Mechanical Engrg. and Materials Science, Northw. Univ., 1990–.

Director, Center for Concrete and Geomaterials, Northwestern University, 1981–87.

Professor 1973–90, *Associate Professor* 1969–73, of Civil Engineering, Northwestern University, 1973–90.

Associate Research Engineer, University of California, Berkeley, 1968–69.

Research Fellow, University of Toronto, 1967–68.

Visiting Scientist, CEBTP Paris, 1996–97.

Scientist, Adjunct Assistant Professor, Czech Technical University, Prague, 1964–67.

Bridge Engineer, Dopravoprojekt, Prague, Jan. 1961–Dec. 1963.

OTHER: *President*, Soc. of Engrg. Science, 1993; *President* (Founding), Intern. Assoc. for Fracture Mechanics of Concrete Structures (IA-FraMCoS), 1991–93; *Honorary president* 2004–. *Chairman*, Division H, PC Reactor Vessels, Intern. Assoc. for Struct. Mech. in Reactor Technology (SMiRT), 1981–94; *Chairman*, ACI Comm. 446, Fracture Mechanics, 1985–92; *Chairman*, ASCE-EMD Comm. on Properties of Materials, 1975–77, 1981–83; *Chairman*, RILEM Comm. on Creep & Shrinkage, 1988–2000; *Chairman*, RILEM Comm. QFS, Quasibrittle Fracture Scaling, 1994–05; *Chairman*, RILEM Comm. TC-MDC, Multi-Decade Creep, 2010–.

Editorships: *Editor (in-Chief)*, Jour. of Engrg. Mech., ASCE, 1988–94. *Regional Editor*, Int. J. of Fracture, 1991–. About 30 Editorial Boards 1971–.

HONORS:

Member: National Academy of Sciences, 2002–
Member, National Academy of Engrg., 1996–
Fellow, American Academy of Arts and Sciences. 2008–

Foreign Member: 1) Royal Society, London, 2015–, 2) Austrian Academy of Sciences, 2000–; 3) Italian Nat. Academy (dei Lincei), 2007–; 4) Spanish Royal Acad. of Eng., 2008–; 5) Academy of Engrg. of Czech Rep., 1998–; 6) Indian National Academy of Engrg., 2017; 7) Academy of Athens (Greek National Ac.), 2017–; 8) Academia Europaea (London) 9) Eur. Acad. of Sciences & Arts. 2008–; 10) Academia di Scienze e Lettere, Milan 2002–;

7 Honorary Doctorates: 1) Univ. of Colorado, Boulder 2000, 2) Politecnico di Milano 2001, 3) Techn. Univ. Vienna 2005, 4) INSA Lyon, France, 2004, 5) Karlsruhe University, Germany 1997, 6) Czech Techn. University, Prague 1991; 7) Ohio State University, Columbus, Dec. 2011.

Honorary Professor: 2007 Nat. Taiwan University of Sci. & Technology; 2012 Southeast University, Nanjing; 2012 Xi'Yan Jiaotong University, Xi'Yan.

2015 *Austrian Cross of Honor for Science and Art I. Class, state prize from Pres. of Austria*

2017 *ASME Medal*;

2009 *Timoshenko Medal*, ASME;

1996 *Prager Medal*, Soc. of Engrg. Science;

2008 *Nadai Medal*, ASME;

1997 *W.R. Warner Medal*, ASME;

2005 *von Karman Medal*, ASCE;

2018 *Freudenthal Medal*, ASCE;

1996 *Newmark Medal*, ASCE;

2011 *Biot Medal*, ASCE;

1997 *Croes Medal*, ASCE;

2004 *Lifetime Achievement Award*, Ill. Str. Eng. Sec. ASCE;

2012 *Honorary Mem.* ASME;

2007 *Honorary Mem.* ASCE;

2015 *Honorary Mem.* RILEM;

2011 *Honorary Member ACI*; (also 1991 Czech CE Soc.,

2009 Czech Soc. for Mech.;

1990 *Torroja Gold Medal*, Building Res. Inst. of Spain;

1975 *L'Hermite Medal*, RILEM (Paris);

1993 *Medal of Merit*, Czech Soc. for Mechanics, Prague;

1998& 2007 *Šolín Medal & Bažant, Sr. Medal*, Czech Techn. Univ., Prague;

1999 *Stodola Gold Medal*, Slovak Academy of Sciences, Bratislava;
2001 *D.M. Roy Award*, Am. Ceramic Society;
2001 *ICOSSAR Lecture Award*, Int. Assoc. for Structural Safety and Reliability;
1977 *T. Y. Lin Award* ASCE;
1976 *W.L. Huber Civil Engrg. Research Prize*, ASCE;
1992 *Meritorious Publication Award*, Struct. Engrs. Assoc. of Ill.;
1992 *Best Engrg. Book of the Year Award*, Assoc. of Am. Publishers;
1984 *Scientific and Technical Prize*, PR China;
2008 *IACMAG Outstanding Contrib. Award*;
1993 *Medal of Czech Soc. for Mech.*
2001 *ISI Award of "Highly Cited Scientist in Engrg."* (one of the original top 100), Int. Sci. Index, Inc.;
1991 *Gov. Lectureship Award*, China (Taiwan);
1955 *National Winner*, Mathematical Olympics, Czechoslovakia; etc.
1993 President, Soc. of Engrg. Science; 1992 President (founding) of IA-FRAMCOS; 2001 President (founding) of IA-CONCREEP.

Elected Fellow: SES, AAM, ASME, ASCE-EMI, RILEM, ACI, USNACM.

Honor Fellowships: Guggenheim 1978, NATO 1988, Humboldt 1990, JSPS Tokyo 1996, Kajima Tokyo 1987; Ford Found. 1967.

2015 *Z.P. Bažant Medal for Failure and Damage Prevention* was established by ASCE (selection comm. in ASCE-EMI is joint with USNC-TAM) 2011 Z.P. Bažant Prize in Engrg. Mechanics was instituted by the Czech Soc. for Mechanics, Prague (selection comm. joint with CTU and Czech Acad. Sci.)

> 630 refereed journal articles and 8 books since 1958.
As of Nov. 2018: I-Index: 124, Total Citations 67,000 (on Google, incl. self. cit).