

## BIOGRAPHICAL SKETCH – Emil Simiu

### Professional Preparation

Princeton University	Civil Engineering	Ph.D., 1971
Brooklyn Polytechnic Institute	Civil Engineering	M.S., 1968
Bucharest Institute of Civil Engineering	Structural Engineering	B.S., 1956

### Appointments

2007-Present	Distinguished Research Professor, International; Hurricane Research Center, Florida International University, Miami, FL
2000	Distinguished Visiting Professor, Florida Atlantic University, Center for Stochastic Research, Boca Raton, FL
1986-2004	Research Professor, Department of Civil Engineering, Johns Hopkins University, Baltimore, MD
1988-Present	NIST Fellow, Building and Fire Research Laboratory, National Institute of Standards and Technology, Gaithersburg, MD
1973-1988	Structural Research Engineer, National Bureau of Standards, Gaithersburg, MD
1971-1973	NBS/NRC Postdoctoral Research Associate, National Bureau of Standards, Gaithersburg, MD
1966-1971	Senior Structural Engineer (part time), Ammann & Whitney, Inc., New York, NY
1965-1966	Structural Engineer, Lev Zetlin Assoc., New York, NY
1663-1964	Structural Engineer, Bechtel Corp. San Francisco, CA and New York
1956-1962	Structural Engineer, Bucharest Design Institute, Bucharest, Romania

### Publications

1. Simiu, E., and Miyata, T.: *Design of Buildings and Bridges for Wind* (2006; Chinese translation 2008), Hoboken, John Wiley and Sons.
2. Dowell, E.H. et al.: *A Modern Course in Aeroelasticity* (4<sup>th</sup> Ed., 2004) (co-authored with R.H. Scanlan chapter “Aeroelasticity in Civil Engineering”), Springer.
3. Simiu, E., *Chaotic Transitions in Deterministic and Dynamic Structural Systems* (2006), Princeton University Press.
4. Simiu, E., and Scanlan, R.H., *Wind Effects on Structures* (3<sup>rd</sup> Ed., 1996; Russian translation 1981, Chinese translation 1982), New York:: John Wiley and Sons.

### Significant Other Publications

Over 80 papers in the fields of Wind Engineering, Offshore Engineering, Engineering Mechanics, and Dynamical Systems, in *J. Struct. Eng.*, *J. Wind Eng. Industr. Aerodyn.*, *J. Eng. Mech.*, *Int. J. Probabilistic Mech.*, *ASME J. Mech. Eng.*, *ASME J. Dynamic Systems and Control*, *ASME J. Offshore Eng.*, *Physical Review E*, *Physica D*, *Nanotechnology*.

### Synergistic Activities

1. Distinguished Member, ASCE 7 Standard Committee. Involved in rewriting of ASCE 7 Standard provisions on wind loads (2010 version), including provisions on aerodynamic testing.
2. Editorial Board Member, *J. Wind Eng. Ind. Aerod.*, *Int. J. Nonlinear Mechanics*, and *Structural Safety*.

3. Pioneered systematic development of Database-Assisted Design techniques for low-rise and high-rise buildings.
4. Developed methodology for probabilistically consistent combination of directional effects of extreme winds and aerodynamic pressures.

### **Collaborators & Other Affiliations**

#### *Collaborators and Co-Authors or Co-Editors*

Robert H. Scanlan (Princeton and Johns Hopkins), Kishor C.Mehta (TTU), David Surry (UWO), Bogusz Beinkewicz (CSU), Ahsan Kareem (Univ. Notre Dame), T. A. Reinhold (Clemson U.), Earl H. Dowell (Duke U.), Jacques Gandemer (Aerodynamics Laboratory, Centre Scientifique et Technique du Batiment, Nantes, France), L. Materazzi (U. Perugia, Italy), T. Miyata (Yokohama National University, Japan).

#### *Graduate and Postdoctoral Advisees, Visiting Professors and Researchers*

M. Batts (U. Michigan), D. Reed (Princeton), T. Whalen (Cornell), W. Fritz (Hopkins), J. Main (Hopkins), R. Gabbai (Rutgers), G. Cook (Hopkins), S. Diniz (Brazil), A. Grazini (Italy), I. Venanzi (Italy).