

**Dr. Horia Hangan**  
**Alan G. Davenport Wind Engineering Group**  
**Boundary Layer Wind Tunnel Laboratory**



Year of Joining Laboratory: 1992-1996, 1996-present  
Profession: Aerospace Engineer, P.Eng.  
Position: Director

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## **RELEVANT EXPERIENCE**

Aerospace Research Institute, Bucharest, Romania, 1988-1990  
École Polytechnique Fédérale de Lausanne, Switzerland, 1991-1992  
Boundary Layer Wind Tunnel Laboratory, 1992-2996  
Université de Poitiers, Poitiers, France, 1996  
Boundary Layer Wind Tunnel Laboratory, 1996-present

Dr. Horia Hangan is an expert in Wind Engineering, Wind Environment and Wind Energy with more than 100 contributions to buildings, bridges and wind turbine aerodynamics, external and internal wind environment and comfort, dispersion of pollutants, impact of rain and snow, aeroacoustics, and high intensity winds (downbursts and tornadoes). He has been leading the Computational Wind Engineering (CWE) direction of the BLWTL for the past 10 years. Dr. Hangan is the Chair of the Computer Aided Wind Engineering ASCE Subcommittee and a member of the Board of Directors of the Canadian Society of Mechanical Engineers (CSME).

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## **EDUCATIONAL AND PROFESSIONAL STATUS**

Dipl. Engineer, Aerospace, Politehnica, Bucharest, 1985  
PhD, Wind Engineering, The University of Western Ontario, 1996  
Member, Professional Engineers of Ontario, 2000  
Member, Board of Directors of the Canadian Society of Mechanical Engineers  
Chair, ASCE Subcommittee on Computer Aided Wind Engineering

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## **EXPERIENCE RECORD - Boundary Layer Wind Tunnel Laboratory, 1992-present Computational Wind Engineering Studies (selected projects)**

### **Computational Wind Engineering**

CANDU Nuclear Reactor Complex  
Torre Sacyr Vallehermoso, Madrid, Spain  
Crown Macau, Macau, China  
Safety Harbours Ltd., Sarnia, Ontario  
Dupont Chimneys, Waynesboro, Virginia  
Ontario Campaign for Action on Tobacco (OCAT),  
Toronto, Ontario  
Southmedic Inc, Barrie, Ontario

### **Buildings**

Mori Tower, Shanghai, China  
Foundation for Contemporary Art Project, Paris,  
France  
Centro Empresarial Nacoes Unidas (CENU), Sao-  
Paulo, Brazil  
Crawford Long Medical Building and Diagnostic  
Facility, Atlanta, Georgia  
Whitehall Ferry Terminal, New York City, NY  
Cheju International Convention Center, Cheju, Korea  
Sudbury Regional Hospital, Ontario