

## CURRICULUM VITAE

### **Bengt H. Fellenius**

Dr. Bengt H. Fellenius, Professor of Civil Engineering at the University of Ottawa from 1979 through 2002, is an internationally recognized authority in the field of soil mechanics and foundation engineering, and, in particular, in deep foundations. He has gained a wealth of practical experience during 60 years of work at home and overseas through a variety of assignments that encompass foundation, embankment, and soil improvement methods for water and sewage treatment plants, industrial plants, as well as bridges, highway, and airport projects, and marine structures and urban area development projects; some of which he has written up in more than 400 technical journal and conference papers, articles, books, and book chapters. Copies of many of the papers are available for downloading from Dr. Fellenius' web site: [www.Fellenius.net].

Dr. Fellenius moved from his native Sweden to Canada in 1972 from where he worked on foundation investigations and analysis of construction projects in North America and overseas. In 1973, he was one of the first to apply geotextile soil separation sheets to stabilize roadbeds and construction surfaces, investigating conventional carpet underlay (Celanese) for this purpose. He was active in promoting to the US market the splicing of prestressed concrete piles by means of mechanical full-strength splices, and he introduced to Canada and the USA the lime column ground improvement method for reducing soil compressibility and the use of wick drains (the Geodrain and Alidrain) for accelerating consolidation and stabilizing landslides. In 1977, he was the third practicing engineer outside the developers of the method to use dynamic testing and the Pile Driving Analyzer in actual project design and construction.

In 1984, he introduced the Janbu method of determining soil compressibility and analysis of settlement to North-America. He has also had a fundamental part of the development of commercial software for analysis of settlement from loads on natural soils and soils subjected to soil improvement methods, design of piled foundations, and other software. In 1984, he published the design and analysis method for foundation design known as the "Unified Method of Design for Capacity, Drag Force, Settlement, and Downdrag for single piles and pile groups".

Dr. Fellenius is and has been an active participant in many national and international professional societies and research associations and in Canadian and US Codes and Standards Development. For example, Member of the subcommittee for the American Society for Testing and Materials D-4945 Standard for High-Strain Dynamic Testing of Piles; Chairman of the Canadian Geotechnical Society, CGS, Technical Committee on Foundations writing the 1985 Canadian Foundation Engineering Manual; Member of the Ministry of Transportation Committee for the Development of the 1983 and 1992 Ontario Bridge Design Code; Author of the Public Works Canada publication: Marine Division Master Specifications for Piling, Pile Design Guidelines, and Hammer Selection Guide; Past Overseas Correspondent Member to the Geotechnical Engineering Advisory Panel of the Institution of Civil Engineers, ICE (London); and Past Member of Editorial Board for the ASCE Geotechnical Engineering Journal.

Dr. Fellenius has given lectures and courses to several universities and been invited lecturer and Keynote Speaker at international conferences throughout Europe, the Americas, and South-east Asia.

### **EDUCATION**

1955 – 57      Swedish Army Service  
1962            M.Sc., Civil Engineering, Royal Institute of Technology, Stockholm  
1972            Doctor of Technology, Soil Mechanics and Foundation Engineering,  
                    Royal Institute of Technology, Stockholm

## **PROFESSIONAL ACTIVITIES**

### **Canadian Geotechnical Society,**

Past Chairman of the CGS Technical Committee on Foundations (1983-1985); Past Chairman of CGS Northern and Eastern Ontario Section (1982-1985); Past Chairman of CGS Montreal and Western Quebec Section (1974-1977); Canadian representative of International Geotechnical Society Committee on Drivability Penetrability of Piles (1985-1989); Chairman of the Third International Conference on the Application of Stress-Wave Theory to Piles, in Ottawa 1988.

### **Ministry of Transportation and Communications, Ontario,**

Member of the Committee appointed to develop the 1983 and 1992 Highway Bridge Design Code

### **Deep Foundations Institute,**

Charter Member; Past Board Member; Past Technical Editor of the DFI Journal (1977-1983); Member of the Technical Advisory Committee (2001 - to date)

### **Royal Swedish Academy of Engineering Sciences,**

Member of the Commission on Pile Research (1973 to date)

### **Peer Referee of Papers**

Canadian Geotechnical Journal

Canadian Journal of Civil Engineering

ASCE Journal of the Geotechnical Engineering Division; ASCE GeoInstitute

ASTM Geotechnical Testing Journal

Geotechnical Engineering Journal of the SEAGS & AGSSEA

U.S. Transportation Research Board, Records

Deep Foundation Institute Journal

Geotechnique, UK

Proceedings of the Institution of Civil Engineers, Geotechnical Engineering Journal

Journal of Applied Mathematics, Korea

Scientia Iranica, Iran

## **PROFESSIONAL MEMBERSHIPS**

Canadian Geotechnical Society and Engineering Institute of Canada

American Society of Civil Engineers, ASCE, Life Member

Deep Foundations Institute, DFI, Charter Member

Swedish Commission on Pile Research

Swedish Geotechnical Society, SGF, Honorary Member

South-East Asian Geotechnical Society, SEAGS

## **AWARDS**

Stanley D. Wilson Memorial Lecturer, Shannon & Wilson, Inc. and University of Washington, Seattle, March 31, 2022.

Da Vinci Engineering Legend Award, Deep Foundation Institute 44th Annual Conference, Chicago, October 17, 2019.

Geotechnical Engineering Journal of the SEAGS & AGSSEA Societies Issue "Honoring Dr. Bengt H. Fellenius", 50(3) September 2019.

17th Arthur Casagrande Memorial Lecturer, Boston Society of Civil Engineering, ASCE, Boston November 7, 2018.

Inaugural E.A.L. Smith Lecturer at the IFCEE, ASCE, GI, and PDCA Conference, Orlando, March 7, 2018.

6th Dr. Anwar Wissa Lecturer, ASCE, Tampa Chapter, November 1, 2017.

Inaugural Sven Hansbo Lecturer at the Vietnamese Geotechnical Society, 3rd Geotec Hanoi Conference on Geotechnics for Sustainable Infrastructure, Hanoi November 24 - 25, 2016.

The American Society of Civil Engineers, the GeoInstitute, 2016  
Outstanding Reviewer Award for the ASCE Journal of Geotechnical and Geoenvironmental Engineering.

John Mitchell Lecturer, Deep Foundation Institute, May 22, 2014, at the DFI-EFFC International Conference on Deep Foundation, Stockholm, Sweden.

Inaugural K. Rainer Massarsch Lecturer, at Segundo Congreso Internacional de Fundaciones Profundas de Bolivia, Santa Cruz, May 12, 2015.

Sower's Lecturer, ASCE Georgia Section, at the 15th Annual George F. Sowers Symposium, Atlanta, GA, May 8, 2012,

Swedish Geotechnical Society, 2012, Awarded honorary membership

The American Society of Civil Engineers, the GeoInstitute, 2012  
Geotechnical Special Publication Honoring Bengt H. Fellenius "Role of Full-Scale Testing in Foundation Design".

The Deep Foundations Institute, 2010, Osterberg Lecturer at the 2nd Annual Osterberg Memorial Lecture and Dinner, Boston, MA.

The Engineering Institute of Canada, 2002  
Conferred the Distinction of Fellow in "Recognition of Excellence In Engineering and for Services to the Profession and to Society".

American Society of Civil Engineers, ASCE, 2002  
Designation as Life Member.

Deep Foundation Institute, 2001  
Hal Hunt Lecturer, Deep Foundation Institute Meeting in New York, November 20.

Canadian Geotechnical Society, 1997  
The G. Geoffrey Meyerhof Award "for Outstanding and Significant Contributions to the Art and Science of Foundation Engineering".

Deep Foundation Institute, 1993  
The Distinguished Services Award "for Exceptionally Valuable Contributions to the State-of-the-Art in Deep Foundations".

American Society for Testing and Materials, 1990  
Award "for Service in Standards Development".

Canadian Geotechnical Society, 1985  
Award "for Services to the Canadian Geotechnical Community".

Canadian Geotechnical Society  
Trans Canada Lecturer for 1985/1986.