

CURRICULUM VITAE

Dr. Bengt H. Fellenius is a professional engineer specializing in foundation design and studies by participation in project teams, special investigations, instrumented field tests, etc. Services are also provided in regard to construction problems, claims, and litigation in collaboration with Consultants and Contractors, as well as Owners.

Dr. Fellenius, Professor of Civil Engineering at the University of Ottawa from 1979 through 1996, 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 more than 40 years of work at home and overseas through a variety of assignments that encompass foundation, embankment, and soil improvement design 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 250 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 where he worked on numerous foundation investigations and design and 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 ground improvement applications of lime column method and wick drains (the Geodrain and Alidrain) for accelerating consolidation, stabilizing landslides, and reducing soil compressibility.

He also introduced the Janbu method of determining soil compressibility and analysis of settlement, and he 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, 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 Load, Settlement, and Downdrag".

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 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 three Public Works Canada publications: 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 international conferences throughout Europe, America, and south-east Asia.

EDUCATION

1955 – 57 Swedish Army Service

1962 M.Sc., Civil Engineering, Royal Institute of Technology, Stockholm, Sweden

1972 Doctor of Technology, Soil Mechanics and Foundation Engineering, Royal Institute of Technology, Stockholm, Sweden

PROFESSIONAL ACTIVITIES

Canadian Geotechnical Society,

Past Chairman of the Technical Committee on Foundations; Past Chairman of Northern and Eastern Ontario Section; Past Chairman of the Montreal and Western Quebec Section; Canadian representative of International Geotechnical Society Committee on Drivability Penetrability of Piles; Chairman of the Third International Conference on the Application of Stress-Wave Theory to Piles.

Ministry of Transportation and Communications, Ontario,

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

Royal Swedish Academy of Engineering Sciences,

Member of the Commission on Pile Research.

Deep Foundations Institute,

Charter Member; Past Board Member; Past Technical Editor of the DFI Journal; Member of the Technical Advisory Committee.

Peer Referee of papers for:

Canadian Geotechnical Journal

Canadian Journal of Civil Engineering

ASCE Journal of the Geotechnical Engineering Division

ASTM Geotechnical Testing Journal

U.S. Transportation Research Board, Records

Proceedings of the Institution of Civil Engineers, Geotechnical Engineering Journal

PROFESSIONAL ASSOCIATION REGISTRATION AND MEMBERSHIPS

Canadian Geotechnical Society and Engineering Institute of Canada

Association of Professional Engineers of Alberta, APEGGA

American Society of Civil Engineers, ASCE

American Society for Testing and Materials, ASTM

Deep Foundations Institute, DFI

Pile Driving Contractors Association, PDCA

Drilled Shaft Contractors Association, ADSC

Swedish Commission on Pile Research

Swedish Geotechnical Society, SGF

A W A R D S

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.

Canadian Geotechnical Society, 1997: The G. Geoffrey Meyerhof Award *“for Outstanding and Significant Contributions to the Art and Science of Foundation Engineering”*. Awarded at the 50th Annual Meeting October 1997.

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

Canadian Geotechnical Society, 1985: Plaque *“for Services to the Canadian Geotechnical Community”*. Awarded at the 38th Annual Meeting September 1985.

American Society for Testing and Materials, 1990: Award *“for Service in Standards Development”*.

Canadian Geotechnical Society *Trans Canada Lecturer* for 1985/1986.

EXPERIENCE**1977 - Present Bengt Fellenius Consultants Inc.**

President. Bengt Fellenius Consultants Inc. provides geotechnical engineering consulting services.

1990 - Present UniSoft Ltd.

President. UniSoft Ltd. specializes in software development for foundation design and analysis.

1979 - 1998 University of Ottawa

Professor of Civil Engineering, Specialty: Foundation Engineering

1995 - 2002 Urkkada Technology Ltd., Ottawa

Principal. Urkkada Technology Ltd. is a company specializing in foundation testing and analysis.

1985 - 1994 Anna Geodynamics Inc, Ottawa

Principal. Anna Geodynamics Inc. is a company specializing in foundation testing and analysis.

1973 - 1981 Burcan Industries Ltd, Toronto

Principal. Burcan Industries is a company specializing in ground improvement techniques.

1973 - 1977 Terratech Ltd., Montreal

Supervising Engineer, and special consultant for foundation studies. Terratech Ltd., a division of Lavallin-SNC, specializes in geotechnical consulting.

1972 - 1973 The Engineering Group of Agra Industries, Montreal

Western Caisson Ltd., Montreal, and Torchinsky Consulting Ltd., Saskatoon. Special Consultant.

1965 - 1972 Swedish Geotechnical Institute, Stockholm

Research work in the field of deep foundations and consulting work dealing with foundation problems in connection with industrial and town area planning, roads, bridges, and slope stability.

1966 - 1971 Royal Institute of Technology, Stockholm

Assistant Teacher at the Civil Engineering Department

1966 - 1971 Royal Swedish Academy of Engineering Sciences

Technical Secretary to the Commission on Pile Research

1963 - 1965 Scandiaconsult, Stockholm

Geotechnical Engineer. General consulting work with particular reference to planning for industrial and urban development.

1962 - 1963 Swedish National Railways, Structural Division

Bridge Engineer. Structural design of concrete and steel bridges.
