

# CURRICULUM VITAE

## François Tavenas

### 1. PERSONAL

François Aimé TAVENAS  
Born on September 12, 1942 in Bourg de Péage, France  
Canadian Citizen since July 15, 1971  
Married, with three children  
Perfectly fluent in French, English and German

### 2. UNIVERSITY EDUCATION

Engineering studies at the Institut National des Sciences Appliquées (INSA), Lyon, France, from 1959 to 1963. INSA Engineering Degree, with specialization in Civil Engineering obtained in July 1963.

INSA student delegate to the Technical University of Aix-la-Chapelle (Aachen), Federal Republic of Germany, 1961-1962.

Doctorate with specialization in Soil Mechanics from the Université de Grenoble, France, obtained in December 1965, with great distinction and high commendation (summa cum laude).

### 3. POSITIONS HELD

1968-1989 Université Laval, Québec

1968-1970 Lecturer (Department of Civil Engineering)  
1970-1973 Assistant Professor  
1973-1978 Associate Professor  
1978-1989 Professor  
1985-1989 Dean, Faculty of Science and Engineering

1989-1997 McGill University, Montréal

1989-1997 Professor (Department of Civil Engineering and Applied Mechanics)  
1989-1990 Vice-Principal (Planning and Computing)  
1990-1997 Vice-Principal (Planning and Resources)  
1995-1997 Acting Vice-Principal (Macdonald Campus)

1997- Université Laval, Québec

1997- Professor (Department of Civil Engineering)  
1997- Rector

#### **4. HONORS AND AWARDS**

Prize of the Canadian Geotechnical Society for the best article published in 1974 and again in 1978.

Keefer Gold Medal of the Engineering Institute of Canada for the best article in the field of Civil Engineering in 1980.

Telford Premium of the Institution of Civil Engineers of England for the best article in geotechnology in 1986 and again in 1989.

Robert F. Legget Award of the Canadian Geotechnical Society for outstanding life-long contributions to the development and practice of Geotechnique in Canada, in 1995.

Elected to the Canadian Academy of Engineering, 1998.

Chevalier of the French Legion of Honor, 1999.

Julian C. Smith Medal of the Engineering Institute of Canada, 2001.

Cross of Commander of the Order of Merit from the German Federal Republic, 2002.

#### **5. ACADEMIC ACTIVITIES**

##### **LECTURING**

##### At Université Laval

Soil Mechanics II  
Foundations  
Foundation Design  
Geotechnical Design  
Dams and Earth Embankments  
Geotechnique

##### At McGill University

Advanced Foundation Design

## RESEARCH

Research in Geotechnique for about 30 years in the fields of the mechanics of sensitive clays, the behavior of pile foundations, the behavior of embankments on sensitive clays and slope stability.

Thesis advising:

Advised 25 master's, 5 doctoral and 2 postdoctoral students at Université Laval and 5 master's and one postdoctoral students at McGill University.

## 6. ACADEMIC MANAGEMENT

### At Université Laval

1978-1981 University Research Board  
1983-1984 and  
1985-1989 University Council

### At McGill University

1989-1997 Chair, Senate Committee on Computing  
1989-1997 President of McGill Systems Inc.

### Conference of Rectors and Principals of Québec Universities

1989-1997 Committee on Information Systems (COSI); Chairman (1995-1997)  
1989-1991 Committee of Academic Vice-Rectors (VRAA)  
1989-1996 Committee of Vice-Rectors for Human Resources (VRRHU)  
1989-1993 Sub-Committee on Teaching Personnel (PEN)  
1993-1995 Committee of Vice-Rectors for Administration and Finances (VRAAF)  
1993-1996 Chairman, Committee on Medical Matters (MEDU)  
1996-1997 Chairman, Task Force on Information and Communication Technologies (GTTIC)  
1997-1999 Vice-President  
1999- President

### As CREPUQ delegate

1992-1995 Joint Committee on Information Systems for Research (SIRU)

- 1993-1996 Provincial Coordinating Group on Medical Personnel and Follow-up Task Force
- 1995-1997 Joint Committee on Information Systems on Personnel (SYSPER)
- 1995-1997 Joint Committee on Information Systems (CCSI)
- 1998- 2001 Steering Committee of the Francophone Virtual University of the Agence universitaire de la Francophonie

Other

- 1988-1989 Chairman of the Committee of Deans of Engineering of Québec

**7. UNIVERSITY-RELATED MANAGEMENT**

- 1970-1976 Subcommittee on Soil Mechanics, Associate Committee on Geotechnical Research, National Research Council of Canada (Chairman 1973-1976)
- 1970-1982 Associate Scientific Editor, Canadian Geotechnical Journal
- 1972-1975 Foundations Subcommittee, Committee to Draft a National Building Code, (co-author of the Canadian Foundation Design Manual)
- 1972-1978 Committee on Soil Properties, American Society of Civil Engineers (ASCE)
- 1976-1978 Applied Science and Engineering Committee, FCAC Program, Québec
- 1979-1981 Committee on Sampling, ISSMFE
- 1981-1983 Research Center Committee, FCAC Program, Québec (Chairman 1982-1983)
- 1982-1985 Vice-President (Technical), Canadian Geotechnical Society
- 1988-1989 Group Chairman, Engineering, Natural Sciences and Engineering Research Council
- 1988-1995 Basic Programs Committee, Natural Sciences and Engineering Research Council
- 1989-1995 Member of Council, Natural Sciences and Engineering Research Council, Ottawa
- 1990-1992 President, Canadian Geotechnical Society
- 1990-1997 Project Evaluation Committee, Fonds de développement technologique du Québec

- 1991-1997     Advisory Board of the Institute for Research in Construction, National Research Council of Canada
- 1995-             Canadian Delegate, Scientific Orientation Committee of UREF-AUPELF, Paris
- 1997-1998     President, Association canadienne-française pour l'avancement de la science; Vice-President (1995-1997)
- 1998-             Board of Directors, Association of Universities and Colleges of Canada
- 1998-             Chairman, Standing Advisory Committee on University Research, Association of Universities and Colleges of Canada
- 1998-2000     Member, Task Force to Review the Canadian Institutes of Health Research Concept
- 2000- 2001     Member, Advisory Committee for On-Line Learning, Industry Canada
- 2001-             Member, Advisory Committee to the North America Office of the "Agence universitaire de la francophonie" (University agency for the French-speaking world)
- 2001-             Vice-president for the Canada region of the Interamerican University Inter-American Organization for Higher Education

**8.     EXTERNAL PARTICIPATION**

- 1987-1989     Board of Québec Metro High-Tech Park
- 1988-1989     Board of Directors of the National Optics Institute, Québec
- 1992-1997     Board of Directors, Canadian Institute for Magnetic Fusion, Varennes
- 1995-1997     Board of Directors, Corporation du Fort St-Jean (formerly RMC St-Jean)
- 1997-             Chairman of the Québec-Capital Committee
- 1997-             Board of Directors, GATIQ Technorégion Québec/Chaudière-Appalaches
- 1998-             Chairman of the Board of the Québec-Metro High Tech Park
- 1998-2001     President, Réseau interordinateurs scientifique québécois (RISQ)
- 2001, 2002     President of the selection committee for the "Fidéides"
- 2001, 2002     Member of the selection committee for the "Grand prix de l'entrepreneur"

## 9. PROFESSIONAL ACTIVITIES

July - November 1963: Soil Mechanics Engineer, Center for Auscultation of Large Dams, Électricité de France, Grenoble.

July - November 1964: Soil Mechanics Engineer, Hochtief AG, Essen, Federal Republic of Germany. Responsible for Geotechnology; Testing Division for the Essen Subway.

July - October 1965: Consultant to the Office of Reservoir Dams, Seine Préfecture, Paris. Studies on the behaviour of the Morge Dike.

January 1966 - March 1967: Engineer in charge of Geotechnics, Cartier, Côté, Piette, Boulva et Wermerlinger, Consulting Engineers, Montréal:  
- Preliminary study of the Saint-Joachim Power Station,  
- Study of a landslide in Stanstead,  
- Study of the foundations of four Expo '67 pavilions.

March 1967 - November 1968: Engineer in charge of Geotechnics. Piette and Associates, Consulting Engineers, Québec:  
- Supervisor of Geotechnical Reconnaissance and of the study of foundations of industrial buildings, roads, bridges and port facilities.

November 1968 - July 1970: Consultant, Piette and Associates, Consulting Engineers, Québec. Study and control of the foundations of supporting walls of the St-Charles River, Québec: Study and control of a moulded wall, Québec.

Since 1970: Consultant to various public and private organizations, including Hydro-Québec, the Québec Department of Natural resources, the Société d'énergie de la Baie James, the Québec Department of Transportation, Canadian National, Golder and Associates and Terratech Ltd.

## Professional Associations

Order of Engineers of Québec  
Engineering Institute of Canada  
Canadian Geotechnical Society  
International Society of Soil Mechanics  
International Society of Rock Mechanics

## 10. CONFERENCES

Invited as speaker, panel member or keynote speaker at more than 50 venues, notably by the International Association for Soil Mechanics and Foundations for two international conferences; in the United States by Purdue University, the University of Illinois at Urbana-Champaign, the Massachusetts Institute of Technology and the Waterways Experiment Station; in Europe by the École Nationale des Ponts et Chaussées in Paris, the Polytechnical Institute in Turino, Cambridge University, the Norwegian Geotechnical

Institute in Oslo and the Royal Institute of Technology in Stockholm; in Asia by the Ministry of Railways of the Popular Republic of China for a lecture tour.

## **11. PUBLICATIONS**

Publication as author or co-author of one book (in French, translated into English and Russian), of 49 papers in refereed journals, of 41 papers in refereed conference proceedings and of about 60 discussions, technical reports and other publications.

**May 2002**