



12 BASKIN ROAD  
LEXINGTON, MASSACHUSETTS  
U.S.A. 02421-6929

EMAIL: [SILVA@ALUM.MIT.EDU](mailto:SILVA@ALUM.MIT.EDU)

WEBSITE: [WWW.GEO-ENG.ORG](http://WWW.GEO-ENG.ORG)

---

**FRANCISCO SILVA-TULLA, Sc.D., P.E.**



**SPECIALTY/SKILLS:**

Consulting Civil Engineer – GeoEngineering and Environment  
Earth Structures – embankments, dams, levees, dikes, slopes,  
landfills, and excavations  
Safety of Constructed Facilities – Geotechnical Safety  
Programs, probabilistic risk assessments, dam safety

**GEOGRAPHIC BASE:** Lexington, Massachusetts, U.S.A.

**TYPE OF COMPANY:** Sole Proprietorship

---

**RESUMÉ**

**DR. FRANCISCO SILVA-TULLA**

**EDUCATION**

**Sc.D., Civil Engineering, Massachusetts Institute of Technology,**  
Cambridge, MA

**M.S., Civil Engineering, Massachusetts Institute of Technology,**  
Cambridge, MA, 1975

**B.S. Civil Engineering, University of Illinois (high honors),**  
Champaign - Urbana, Illinois, 1971

**PROFESSIONAL  
QUALIFICATIONS**

Registered Professional Engineer, Florida and Puerto Rico  
Certified U.S. Navy Diver, 1973 (not current); Certified NAUI Diver  
Public Works Management, U.S. Navy Civil Engineer Corps Officer School  
OSHA 40-Hour Hazardous Waste Site Health & Safety (HAZWOPER)  
Training OSHA Supervisory Training

**PROFESSIONAL  
AFFILIATIONS**

American Society of Civil Engineers (former chairman, Embankments,  
Dams and Slopes Committee  
National Dam Safety Review Board (formerly ICODS), Member of Training  
Workgroup on behalf of ASCE  
Association of State Dam Safety Officials

International Society for Soil Mechanics and Foundation Engineering  
United States Society on Dams  
Boston Society of Civil Engineers  
Sociedad Venezolana de Mecánica de Suelos (corresponding member)  
Association of Civil Engineering Corps Officers

**PROFESSIONAL  
EXPERIENCE AND  
BACKGROUND**

**GeoEngineering and Environment**<sup>1</sup>, Lexington, Massachusetts,  
Consulting Civil Engineer, Owner 2005 – Present  
**ICF Consulting**, Fairfax, Virginia and Lexington, Massachusetts,  
Senior Vice President and Distinguished Consultant, 2002-2005  
**Arthur D. Little, Inc.**, Cambridge, Massachusetts, Vice President and  
Director, 1993-2002  
**T. William Lambe and Associates, FL / Geotechnics, Inc.**, Lexington,  
Massachusetts, Associate / President, Owner, 1975-1993  
**Massachusetts Institute of Technology**, Department of Civil Engineering,  
Cambridge, Massachusetts, Research Assistant, 1973-1975  
**U.S. Navy, Inter-American Naval Training Center**, Civic Action and  
Rural Development Department, Key West, Florida, Assistant  
Director, 1972-1973  
**U.S. Navy, Naval Station**, Key West, Florida, Activity Civil Engineer,  
1971-1972

Dr. Silva has 43 years of professional experience including 39 years as a consulting engineer, participating on engineering and environmental projects and studies in roles ranging from complete responsibility (program or project management, design, plans and specifications, budget control, construction supervision, quality control, and long-term surveillance) to specialized services (supervision of work performed by other engineering firms; guidance and leadership to groups of consultants; quality assurance; value engineering; expert witness and litigation support; dam and levee safety, risk assessments, soil and groundwater exploration, sampling, analysis and characterization; and environmental assessments and impact studies). He currently serves on the National Dam Safety Review Board (Dam Safety Training Workgroup) and has served as chairman of the Embankment, Dams and Slopes Technical Committee of the Geo-Institute of the American Society of Civil Engineers. For U.S. Government agencies and private corporations, Dr. Silva has performed engineering and environmental work linked to Superfund-(CERCLA-, RCRA ), Clean Water Act-, Clean Air Act- and National Environmental Policy Act- related projects. Dr. Silva's experience includes work for the mining, construction, chemical, petrochemical, petroleum, power, transportation, manufacturing, and waste disposal industries as well as U.S. and foreign government agencies. A large part of his professional experience relates to earth structures (especially embankments, dams, levees, dikes, slopes, landfills, and excavations) and the safety of constructed facilities (including probabilistic risk assessments and dam safety). Dr. Silva

---

<sup>1</sup> formerly Geotechnics, Inc.

also has corporate management experience at the operating group level in consulting organizations with up to US\$700MM annual revenues.

**PUBLICATIONS:**

Dr. Silva is the author or co-author of technical papers and numerous reports on geotechnical and geo-environmental subjects. He is the author of the *Soil Mechanics* article in the McGraw-Hill Encyclopedia of Science and Technology and co-editor of *Judgment and Innovation: The Heritage and Future of the Geotechnical Engineering Profession* (ASCE Geotechnical Special Publication No. 111) and *Embankments, Dams, and Slopes – Lessons from the New Orleans levee failures and other current issues* (ASCE, Geotechnical Special Publication No. 161),. He is presently working on the second edition of the textbook *Soil Mechanics*, co-authored with T. William Lambe and R. V. Whitman.