

GEORGE FILZ

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DR. George Filz

SPECIALTY/SKILLS:

Foundation engineering, soil-structure interaction, soil improvement, slope stability, hydraulic barriers

GEOGRAPHIC BASE: Blacksburg, VA

RESUMÉ DR. GEORGE FILZ

EDUCATION

B.S. Mathematics,
University of Oregon
B.S. Civil Engineering,
Oregon State University
M.S. Civil Engineering,
Oregon State University
Ph.D. Civil Engineering
Virginia Tech

**PROFESSIONAL
QUALIFICATIONS**

Registered Professional Engineer (Oregon)

**PROFESSIONAL
SOCIETIES
PROFESSIONAL
COMMITTEES**

Fellow, American Society of Civil Engineers
Member, Deep Foundations Institute
ASCE Ground Improvement Committee
DFI Deep Mixing Committee
Geotechnical Research Advisory Committee, Virginia Center for
Transportation Research

**PRINCIPAL
PROFESSIONAL
DISTINCTIONS**

Best Paper Award, Soil Mechanics, Transportation Research Board, 2015
Best Practice-Ready Paper Award, Design & Construction, TRB, 2014
Florida ASCE Project-of-the-Year Award, 2011

J. James R. Croes Medal, ASCE, 2006
Thomas A. Middlebrooks Award, ASCE, 2003
National Science Foundation CAREER Award, 1995
Co-Chairman, International Deep Mixing Conference, San Francisco, 2015
5th Annual GZA Lecture, ASCE New York Met Section, 2015
State-of-the-Art Lecture – International Congress on Ground Improvement,
Wollongong 2012
State-of-the-Art Lecture – Grouting and Deep Mixing 2012, New Orleans
State-of-the-Art Lecture – GeoCongress 2012, Oakland
Keynote Lecture – International Symposium on New Construction
Techniques on Soft Clay, Guarujá, Brazil, 2010
Keynote Lecture - International Symposium on Deep Mixing, Okinawa,
2009
State-of-the-Art Lecture – Sowers Symposium, Georgia Tech, 2008
Teaching Awards, Virginia Tech, 1995, 1998, 2000, 2005, 2007(2)

**PROFESSIONAL
EXPERIENCE AND
BACKGROUND**

PROFESSOR, VIRGINIA TECH, 1992 TO PRESENT

Dr. Filz progressed from Assistant to Associate to Full Professor at Virginia Tech from 1992 to 2007. In 2007, he was named the Charles E. Via, Jr., Professor of Civil and Environmental Engineering. Dr. Filz's teaching, research, and practice interests include foundation engineering, soil-improvement, seepage barriers, and soil-structure interaction analyses using numerical methods. He has developed specialized expertise in the deep mixing method and hydraulic barriers. His research has been funded by the National Science Foundation, the Strategic Highway Research Program, the National Aeronautics and Space Administration, the Virginia Department of Transportation, and geotechnical engineering design and construction companies. Dr. Filz has also served as a consultant and on review boards for a variety of projects in the US and internationally, including levees, dams, transportation embankments, storage tanks, retaining walls, and landslides. Notable consulting assignments include: deep mixing stabilization for support of Chabot Dam, Perris Dam, Linville Dam, Levee LPV-111, Kitmat LNG Facility, and Hong Kong International Airport; seepage barriers at Herbert Hoover Dike, OCI's Wyoming soda ash mine, Marysville Ring Levee, Bolivar Dam, and La Esperanza Dam; and numerous pile-supported floodwalls in and near New Orleans.

RESEARCH ASSISTANT AND INSTRUCTOR, VIRGINIA TECH, 1988 TO 1992

Filz served as a research assistant and an instructor under the guidance of Drs. Mike Duncan and Wayne Clough while pursuing his doctor's degree at Virginia Tech.

GEOTECHNICAL ENGINEER, CH2M HILL, 1985 TO 1988

Responsibilities included subsurface explorations, analysis, design, report writing, development of plans and specifications for construction, construction observation/testing, and project management with budget control and client contact. Significant projects included (1) design and construction of Merritt Lake Dam, Coos Bay, Oregon, (2) pile foundations for the South Slough Bridge, Coos Bay, Oregon, (3) tied-back wall for Sacramento Riverbank Restoration, California, (4) retaining wall and cover design for Secure Chemical Management Facility, Niagara Fall, New York, (5) RI/FS reviewer for Stringfellow Superfund Site, Riverside, California, (6) site drainage and cap design for Iron Mountain Mine Superfund Site, Redding, California, (7) leachate collection and liner design for Weyerhaeuser facility, Springfield, Oregon, and (8) 42-inch diameter directional drilled crossing of the Elizabeth River, Virginia.

GEOTECHNICAL ENGINEER, SQUIRE ASSOCIATES, 1981 TO 1985

Responsibilities included subsurface explorations, analysis, design, report writing, construction observation/testing, and project management with budget control and client contact. Significant projects included (1) foundations for Whisky Run Wind Farm, Bandon, Oregon, (2) stabilization of 30th and Spring Street landslide, Eugene, Oregon, (3) analysis of Newport Waterfront landslide, Oregon, (4) six miles of levee, Astoria, Oregon, (5) safety assessment of 33 storm-water detention levees, Portland, Oregon, and (6) dike and pond liner for West Longview Water Treatment Plant, Washington.

**PEER REVIEWED
PUBLICATIONS:**

Over 100.