

# SCOTT A. YOST, Ph.D., P.E.

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## EDUCATION

**University of Michigan**, Ann Arbor, Michigan.  
**Doctor of Philosophy** in Civil Engineering, December 1995.  
**Master of Science** in Civil Engineering, December 1991.  
**Bachelor of Science** in Civil Engineering, Aug. 1991, **Summa Cum Laude**.  
**Asbury College**, Wilmore, Kentucky.  
**Bachelor of Arts** in Mathematics, Business, June 1988, **Cum Laude**.

## EXPERIENCE

**Director of Undergraduate Studies**, Civil Engineering, University of Kentucky, Jan 2011 – 2017, 2018-  
**Associate Professor**, Civil Engineering, University of Kentucky, Jan 2002 – present  
**Assistant Professor**, Civil Engineering, University of Kentucky, Aug 1995 – Jan 2002.  
**Adjunct Lecturer**, Civil and Environmental Engineering, University of Michigan, Jan 1993 - May 1993.  
**Graduate Student Teaching Assistant**, College of Engineering, University of Michigan, Jan 1989 - Dec 1990, Jan 1992 - May 1992, Sept 1994 - Dec 1994.  
**Graduate Student Research Assistant**, Civil and Environmental Engineering, University of Michigan, Jan 1991 - Aug 1995.

## PUBLICATIONS

Shao, Z.S., S.A.Yost (2018) “Numerical Investigation of Driving Forces in a Geyser Event using a Dynamic Multi-Phase Navier-Stokes Model”, *Engineering Applications of Computation Fluid Mechanics*, 12(1), pp 493-505.

Pocholik, L., Wan, H., Ormsbee, L., Yost, S., and Bhattacharyya, D., (2018) “Functionalized Membranes for Remediation of Chlorinated Organic Compounds in Groundwater,” 18th Biennial Seminar on Water Resources and Environmental Management, Edinburgh, Scotland, Sept. 2-6, 2018.

Shao, Z, Yost, S.A. “Using a Multiphase Flow Numerical Model to Simulate Geysers in Stormwater Systems,” 2013 *World Environmental and Water Resources Congress*, ASCE, Cincinnati, OH, 20-22 May 2013.

Walton, R., Schal, S., Yost, S.A., Ormsbee, L. “Hydraulic Calibration of a Water Distribution System Model,” 2013 *World Environmental and Water Resources Congress*, ASCE, Cincinnati, OH, 20-22 May 2013.

Ashby, R.C., Yost, S.A. “Using Water Quality Data From A Water Distribution Lab Model In Calibrating Computer Models,” 2013 *World Environmental and Water Resources Congress*, ASCE, Cincinnati, OH, 20-22 May 2013.

Tien Mun Yee, S. A. Yost and Scott F.Bradford, “A novel approach to air bubble transport modeling using the scalar transport equation” *18th ASCE Engineering Mechanics Division Conference 2007*, June 3- June 6, Virginia

S.A. Yost, D. Lane, “Implementing a Problem-Based Multi-Disciplinary Civil Engineering Design Capstone: Evolution, Assessment and Lessons Learned with Industry Partners”, *Proceedings of the American Society of Engineering Education Southeast Regional Conference*, Louisville, KY. April 2007

S.A. Yost, D. Lane, “Unexpected Consequences of Thoughtful and Innovative Engineering Education Curricular Reform: Identifying Competing Orientations and Sources of Pressure”, *Proceedings of the American Society of Engineering Education Southeast Regional Conference*, Memphis, TN. April 2008

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### FUNDED PROJECTS

NATIONAL INSTITUTE FOR HOMETOWN SECURITY, Co-PI **Studying Distribution System Hydraulics and Flow Dynamics to Improve Water Utility Operational Decision Making**, \$2M (\$365k). Jan 2011-Dec 2014.

Bell Engineering (Kiewit, Inc), PI, **Physical modeling study of the Kiewit Hill Top Raw Water Intake**, 6mo. Feb 2019-June 2019 \$34,500 (pending contract).

CH2M Hill, (Louisville MSD), PI, **Physical modeling study of the Southwestern Pump Station modeling study**, \$78,400, June 2012- Dec 2013.

Innovyze Inc, PI, **Innovyze Student Edition Workbook**, 2015, \$18,000.

IRES, co-PI, **Move from Traditional Education to Outcomes-Based Education Project Focus**, \$50,000 (\$7,000), Aug 2015- June 2016.

### SERVICE:

ABET Program Evaluator, 2008-present.

ABET coordinator, Civil Engineering, 2009-2017, 2018- .

Senate Accreditation and Academic Standards, University Senate (University) 2013- , Chair 2015-2017

Graduate Communication and Composition Requirement Advisory Committee, (University), 2013- , co-chair 2015-17

Senate Admissions Standards Committee 2016-17.

Department Education Team, 2006-

Reynolds Professorship Selection Committee (College), 2007, 2009, 2012 (ad hoc)

University Undergraduate Council, 2008-2011, 2017- 2018.

Senator, University Senate, 2013- 2017.

Faculty Advisor, KSPE, University of Kentucky, 2005-.

FE/EIT Review Session, Fluids Review, each semester thru 2015

UK College of Engineering Open House, Open Lab for tours and Demonstrations

Honors Constellation, (College and University), 2012-2013 (ad hoc)

Search Committee, Associate Dean Academic Affairs, (College), 2013 (ad hoc)

Graduate Writing Requirement, (University), 2010-2013 (ad hoc)

### LIST OF COLLABORATORS:

The University of Kentucky: Lindell E. Ormsbee, Civil Engineering; Srinivasa Lingireddy, Civil Engineering; Tate T. H. Tsang, Chemical Engineering; Jimmy Fox, Civil Engineering.

Office of Naval Research: Scott Bradford, Remote Sensing division.

### LIST OF DOCTORAL STUDENTS:

The University of Kentucky: Chunfung Chen, Tien-Mun Yee, Brian Belcher (co-advisor), Shannon Shao.