

**1. Name**

Charles D. Newhouse

**2. Education – degree, discipline, institution, year**

-Ph.D., Civil Engineering, Virginia Polytechnic Institute and State University (VPI&SU), Blacksburg, Virginia, 2005

-M.S., Civil Engineering, VPI&SU, Blacksburg, Virginia, 1993

-B.S., Civil Engineering (summa cum laude), VPI&SU, Blacksburg, Virginia, 1992

**3. Academic experience – institution, rank, title, when, full time or part time**

-Virginia Military Institute (VMI), Associate Professor, 2010 – 2018, full time

-VMI, Assistant Professor, 2008-2010, full time

-Texas Tech University (TTU), Assistant Professor, 2005-2008, full time

-VPI&SU, Instructor, Via Ph.D. Academic Preparation Program, 2004, part time

-VPI&SU, Graduate Research Assistant, 1992-1993 & 2002-2005, part time

-VPI&SU, Graduate Teaching Assistant, 1992-1993, part time

**4. Non-academic experience – company or entity, title, brief description of position, when, full time or part time**

MMM Design Group. Chief Structural Engineer, Associate, & Bridge Inspection Coordinator. Consulting structural engineer responsible for new bridge design, bridge rehabilitations and inspections, new building design, temporary excavation support systems, and military design support. Projects included: new bridge designs (Pingers Point Interchange, VDOT, Portsmouth, Va.), bridge rehabilitations (Route 143 at Newport News Part, Newport News, Va.), bridge inspections (over 300 NBIS, Pontis, and load factor ratings), temporary excavation support systems (Pitchkettle Road Pump Station, English Construction Co., Suffolk, Va.), building designs (Rappahannock Regional Jail, Virginia Department of Corrections), military design support (Electrical Upgrade, Pier 23, Norfolk Naval Base, Norfolk, Va., C4I Antenna, Keflavik, Iceland, three towers in Naples, Italy for SPAWAR and the Department of the Navy). 1993-2002. Full time.

**5. Certifications or professional registrations**

-Structural Engineering I Exam, Commonwealth of Virginia, 2010

-Professional Engineer, State of Texas, No. 96268, 2005

-Professional Engineer, Commonwealth of Virginia, No. 29087, active since 1997

-Engineer in Training, Commonwealth of Virginia, 1992

-NCEES record No. 20450 (currently inactive)

**6. Current membership in professional organizations**

-American Society of Civil Engineers (ASCE), Associate Member

-American Society for Engineering Education

-Member Chi Epsilon, Tau Beta Pi, and Phi Kappa Phi

**7. Honors and awards**

-Charles S. Luck, Jr. '20 Institute Professorship in Engineering – May 2015

- The VMI Distinguished Teaching Award, 2012
- ASCE 2007 ExCEED (Excellence in Civil Engineering Education) New Faculty Excellence in Teaching Award
- Via Doctoral Fellowship, Virginia Tech, August 2002 – August 2005
- Davenport Doctoral Fellowship, Virginia Tech, August 2002 – August 2005
- Via Scholarship, Virginia Tech, August 1992 – August 1993
- Kiewitt Eastern Company Scholarship, Junior and Senior Years at Virginia Tech
- Engineering Summer Abroad Program, Oxford, England, summer 1989

## 8. Service activities

- Dean's representative for Permits and Calendar Issues (fall 2017-present).
- SACS-COC QEP Topic Selection Committee Chair (2015-2017).
- ASCE Student Chapter Faculty Advisor (2008 to spring 2017). Assist with advising the concrete canoe and steel bridge teams and attend the yearly ASCE Virginias' conference.
- Class advisor for class of 2016. Continue to assist with Honor Court cases.
- Tau Beta Pi Faculty Accountant. Assist with initiations and financial matters.
- Assistant Officer in Charge (until 2016).
- College and Career Sunday School class at Lexington Baptist Church (2008 to 2016).

## 9. Publications and presentations from the past five years – title, co-authors if any, where published and/or presented, date of publication or presentation

- “What a Smell! Lessons Learned from a Collaborative Compost Capstone,”* Newhouse, C.D., Ackerman P.J., 2016 ASEE Southeast Section Conference, University of Alabama, March 13-15, 2016.
- “Yankees, Dollars, and Engineers: VMI's Battle to Maintain a Gothic Image,”* Swenty, M.K., Newhouse, C.D., Ackerman P.J., Presentation to the ACI National Convention, Philadelphia, PA, October 23, 2016.
- Wood, T. A., Lawson, W. D., Jayawickrama, P. W., Newhouse, C. D., *“Evaluation of production models for load rating reinforced concrete box culverts,”* Journal of Bridge Engineering, v 20, n 1, January 1, 2015.
- Swenty, M., Ackerman, P., Johnstone, D., Newhouse, C. *“Consolidating Coursework while Expanding Breadth: Improving the First Year Civil Engineering Experience at the Virginia Military Institute”* First Year Engineering Experience Conference, Roanoke, VA, 2015.
- Freeman, J.W. and Newhouse, C.D., *“Improving Longitudinal Joint Performance by Using Fiberglass or Kevlar Strips,”*, in partial fulfillment of a SURI project, VMI, 25 July 2014.

## 10. Most recent professional development activities

- Lime Kiln documentation and renovation project, CO-PI, 2017-2018 AY.
- Sayre Cot Testing project, CO-PI, 2016-2017 AY.
- Inspection of structural defects in house for potential owner (settle a dispute), 2017.
- Consultant for TxDOT Project No. 5-5849-03, Load Rating TxDOT Culvert Design Standards, total project budget of \$155,752, 2011-2013.
- Consultant for TxDOT Project No. 5-5849-01 Software Development to Implement the TxDOT Culvert Rating Guide, total project budget of \$74,288, 2011-2013.
- Emergency inspection of the walls and roof the Southern Inn Restaurant in Lexington, Va., due to fire damage, 2010.