

1. Name

Thomas C. Timmes

2. Education – degree, discipline, institution, year

- Ph.D., Environmental Engineering, Penn State, University Park, PA, 2009
- M.S.E., Environmental Engineering, Johns Hopkins University, Baltimore, MD, 2000
- B.S., Civil Engineering, Virginia Military Institute, Lexington, VA, 1992

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

- Virginia Military Institute (VMI), Professor, 2020- Present, full time
- Virginia Military Institute (VMI), Associate Professor, 2017-2020, full time
- US Military Academy (West Point), Assistant/Associate Professor, 2009 – 2012, full time
- US Military Academy (West Point), Instructor/Assistant Professor, 2003 – 2006, full time
- Uniformed Services University, Adjunct Assistant Professor, 2008-Present, part time
- Pennsylvania State University, Adjunct Assistant Professor, 2009-2012, part time

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

- Director, Environmental Health Sciences and Engineering, U.S. Army Public Health Center, APG, MD, 2016-2017. Managed 150 scientists, engineers, and support staff with a \$20M annual budget to consult/provide solutions to worldwide issues involving water, wastewater, hazardous waste, air pollution, entomology, and noise pollution. Full time.
- Commander, U.S. Army Center for Environmental Health Research, Ft. Detrick, MD, 2013-2016. Supervised over 50 scientific and support staff and an annual research budget over \$18M. Planned, directed, and advanced medical research and product development for biomarker diagnostics, environmental health surveillance, and environmental health technologies in support of Force Health Protection. Full time.
- Environmental Science and Engineering Officer in the U.S Army Medical Service Corps, 1992-2017. Full time.

5. Certifications or professional registrations

- Accreditation Board of Engineering Technologies (ABET) Program Evaluator (EAC), 2007
- Board Certified Environmental Engineer, AAEES, 2005
- Professional Engineer, Maryland, No. 25421, 2000
- Professional Engineer, Virginia, No. 059419, 2018

6. Current membership in professional organizations

- American Society of Civil Engineers (ASCE), Member
- Society of American Military Engineers, Past Post-President
- The Honor Society of Phi Kappa Phi, Member
- Tau Beta Pi Engineering Honor Society, Member
- Omicron Delta Kappa, Member
- American Academy of Environmental Engineers and Scientists, Member
- Association of Environmental Engineering & Science Professors, Member
- American Society for Engineering Education, Member

7. Honors and awards

- Southern Conference All Conference Faculty Award, 2022-23
- Society of American Military Engineers Regional VP Award of Excellence, 2015
- Science and Technology Manager Level III Acquisition Certification, 2013
- Who's Who in Science and Engineering, 2011
- The Phi Kappa Phi Faculty Scholastic Achievement Award, 2010
- The Linn H. Enslow Memorial Award, NY Water Environment Association, 2009
- National Society of Professional Engineers "Spotlight Member", 2009
- 1st Place Poster Award, Pennsylvania/Chesapeake Section AWWA Joint Conference, 2007
- Outstanding Young Engineer of the Year, Maryland Society of Professional Engineers, 2002

8. Service activities

- VMI Superintendent Representative to the Honor Court, 2018-Present
- VMI Faculty Advisory Committee Development Council, 2022- Present
- VMI Grievance Panel, 2021-Present
- VMI Institute Honors Committee, 2017-Present
- Panelist, National Science Foundation Environmental Technologies, 2023
- USMA Medical Service Corps Board President, 2011
- USMA Science, Technology, Engineering, and Math (STEM) Committee, 2011
- USMA Dean Level Faculty Committee, 2010, 2011
- USMA Executive and Dean Level ABET Committee, 2010, 2011
- ABET Program Evaluator, 2009- Present
- Manuscript Technical Reviewer, Chemical Engineering Research & Design, 2022.
- Manuscript Technical Reviewer, Separation and Purification Technology, 2022.
- Manuscript Technical Reviewer, Environmental Science: Water Research & Tech., 2020.
- Manuscript Technical Reviewer, Ecological Engineering, 2019.
- Panelist, National Science Foundation, 1440 Environmental Engineering review, 2018, 2019.
- Panelist, National Science Foundation Graduate Research Fellowship, 2014-2016, 2019.
- Manuscript Reviewer, Environmental Engineering Science, 2019.
- Manuscript Technical Reviewer, The Chemical Engineering Journal, 2011-2013, 2019
- Manuscript Technical Reviewer, ASCE Journal of Environmental Engineering, 2009-2013.
- Chair, Science, Mathematics & Research for Transformation Scholarship Panel, 2012
- Panelist, National Defense Science & Engineering Graduate Fellowship Review, 2008-2011

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

- "Engineering Application Outreach Projects in a College Town in the United States of America", *11th International Perspective on Water Resources and the Environment (IPWE)*, January 2023, Dhaka, Bangladesh. T. Afrin, R. Martin, T. Timmes, M. Swenty.
- "Highlighting cultures, civilizations, and diversity in historical civil engineering achievements", *Proceedings of the ASEE Southeastern Section Annual Conference, March 2022*, T. Afrin, T. Timmes, R. Wilkins, R. Martin, M. Swenty.

- “A novel approach for integrating the new ABET Student Outcomes (SOs) and early impacts on SOs during the COVID-19 Pandemic”, *Proceedings of the ASEE Southeastern Section Annual Conference, March 2021*, J. Jung, T. Afrin, T. Timmes.
- “Algal softening followed by ozonation: the fate of persistent micropollutants and natural organic matter in groundwater”, *The Journal of Hazardous Waste*, doi: 10.1016/j.jhazmat.2020.123480, January 2021, H.C. Kim., T.C. Timmes, H. Ryu, H.S. Yang, H. Yoon, and S. Kim.
- “Curricular predictors for success on the Civil - Fundamentals of Engineering (FE) Exam”, *Proceedings of the ASEE Southeastern Section Annual Conference, March 2020*, T. Timmes, T. Afrin, C. Newhouse. A. Ramniceanu, and M. Swenty.
- “Predicting and preventing perception problems in freshmen engineers”, *Proceedings of the ASEE Southeastern Section Annual Conference*, November 2018, P. Ackerman, T. Afrin, J. Jung, M. Swenty, T. Timmes, C. Newhouse.
- “Treatment of reverse osmosis concentrate using an algal-based MBR combined with ozone pretreatment”, *Water Research*, DOI: 10.1016/j.watres.2019.05.003, August 2019, H. Woo, H. S. Yang, T.C. Timmes, C. Han, J. Y. Nam, S. Byun, S. Kim, H. Ryu, H. C. Kim.
- “The growth of *Scenedesmus quadricauda* in RO concentrate and the impacts on refractory organic matter, *Escherichia coli*, and trace organic compounds”, *Water Research*, DOI: 10.1016/j.watres.2018.01.029, February 2018, S.K. Maeng, S.H. You, J.Y Nam, H. Ryu, T.C. Timmes, H.C. Kim.

10. Most recent professional development activities

- Speaker- ASEE Southeastern Section Annual Conference, Charleston, SC, 2022.
- Speaker- ASEE Southeastern Section Annual Conference, Auburn, AL, 2020.
- Speaker- American Chemical Society Annual Convention, Boston, MA, 2018.
- Abstract Reviewer and Moderator- Environment Virginia Symposium, 2018-Present.
- Post President, Ft. Detrick Chapter, Society of American Military Engineers, 2013-2015
- Speaker- GEMS Program, Hood College, Frederick, MD, 2015
- Speaker, Armed Forces Communications and Electronics Assoc., Frederick, MD, 2014
- Speaker- New York Water Environment Association Spring Tech. Conf., NY, 2009
- Speaker- Military Applications for Emerging Water Technologies Workshop, IL, 2008
- Speaker- Borchardt Seminar on Advancements in Water and Wastewater, MI, 2008