

Abbreviated Curriculum Vitae for:

Tyler S. Love, Ph.D.

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Department of Teacher Education

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EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA 2015

Major: Curriculum and Instruction

Concentration: Integrative STEM Education

Graduate Certificate: Higher Education Administration: Student Development and Learning Track

Degree: Ph.D.

Dissertation Title: Examining the Extent to Which Select Teacher Preparation Experiences Inform Technology and Engineering Educators' Teaching of Science Content and Practices.

Virginia Tech, Blacksburg, VA 2012

Major: Curriculum and Instruction

Graduate Certificate: Integrative STEM Education

Degree: MAEd

University of Maryland Eastern Shore (UMES), Princess Anne, MD 2009

Major: Technology Education

Degree: BS, Summa Cum Laude

Activities: Honors Program Student and Division 1 Student-Athlete

TEACHING EXPERIENCE

Penn State Harrisburg, Harrisburg, PA 2018-Present

Assistant Professor of Education, Department of Teacher Education

Director of the Capital Area Institute for Math and Science (CAIMS)

University of Maryland Eastern Shore (UMES), Princess Anne, MD 2017-2018

Tenured Associate Professor and Coordinator of Technology and Engineering Education

Associate Member of the Graduate Faculty

University of Maryland Eastern Shore (UMES), Princess Anne, MD 2015-2017

Assistant Professor and Coordinator of the Technology and Engineering Education Program

Associate Member of the Graduate Faculty

Virginia Initiative for Science Teaching and Achievement (VISTA) Project: 2012-2014

Title I Teacher Recruiter and Professional Development Instructor, Blacksburg, VA

Howard County Public School System, Ellicott City, MD 2010-2011

Technology Education Teacher, JV Baseball Coach

Queen Anne's County Public Schools, Centreville, MD 2010

Technology Education Teacher, JV Baseball Coach

PROFESSIONAL EXPERIENCE

Author: International Technology and Engineering Educators Association (ITEEA) Standards Revision Project 2019-2020

One of 40 authors invited to serve on this committee.

Developed the new national K-12 Technology and Engineering Literacy Standards.

National Science Teachers Association (NSTA): Safety Advisory Board	2016-present
ITEEA Safety Editor	2016-present
Technology and Engineering Educators Association of Maryland (TEEAM) Board Member: University Representative	2016-2018
Virginia Tech School of Education: Graduate Research Assistant	2011-2015
International Technology and Engineering Educators Association (ITEEA) Safety Instruction Website Developer - https://www.iteea.org/Resources/Safety/Safety_Tests.htm	2014
Kindergarten to College Program (K2C) Mentor, Blacksburg, VA	2012-2015
Virginia Tech: Administration Observation, Blacksburg, VA <i>Shadowed Dr. Sherwood Wilson, Vice President of Administration at Virginia Tech</i>	Summer 2013
ITEEA: Elementary Curriculum Assessment Writer's Forum, Blacksburg, VA <i>Curriculum Assessment Item Writer</i>	2012
TEEAM Board Member: Vice-President of Student Affairs	2010-2011

PROFESSIONAL LICENSURES

Pennsylvania Department of Education <i>Instructional I Certificate</i> <ul style="list-style-type: none">• Technology Education: Grades K-12	2013-Present
Maryland State Department of Education <i>Professional Eligibility Certificate</i> <ul style="list-style-type: none">• Technology Education: Grades 7-12• Ancillary Credits in Reading and Special Education	2010-Present

PROFESSIONAL MEMBERSHIPS

Pennsylvania Science Teachers Association (PSTA)	2019-Present
Epsilon Pi Tau (EPT) Technology Honors Society, Delta Omicron Chapter	2016-Present
National Science Teachers Association (NSTA)	2014-Present
Kappa Delta Pi, Xi Zeta (Virginia Tech) Chapter	2015
Virginia Association of Science Teachers (VAST)	2014-2015
American Educational Research Association (AERA)	2013-2015
Council for Technology and Engineering Teacher Education (CTETE)	2013-Present
Iota Lambda Sigma Honor Society (IΛΣ Maryland Chapter)	2012-Present
National Educators Association (NEA)	2010-Present
International Technology and Engineering Educators Association (ITEEA)	2008-Present
Technology and Engineering Educators Association of Maryland (TEEAM)	2007-2018
Technology and Engineering Educators Association of Pennsylvania (TEEAP)	2004-Present

GRANTS AND FUNDING

- Love, T. S. (2019). *Gift-in-kind awards for K-12 outreach through the Capital Area Institute for Mathematics and Science (CAIMS)*. Various Businesses and Companies. (\$36,000 secured from 2018-2020).
- Potlakayla, S., Attaluri, A., Rios, C., Wilburne, J., **Love, T. S.**, & Rudrabhatla, S. (2018). (Co-P.I.). *Arts as a means to communicate science, technology, engineering, and mathematics: STEAM 101 course development*. Office for General Education, Penn State University. (\$15,000).
- Love, T. S. (2018). *Title III faculty development travel fund*. (2018 International Technology and Engineering Educators Association conference in Atlanta, GA). Division of Academic Affairs, University of Maryland Eastern Shore. (\$1,500).
- Love, T. S. (2017). *Title III faculty development travel fund*. (2017 National Science Teacher's Association conference in Los Angeles, CA). Division of Academic Affairs, University of Maryland Eastern Shore. (\$2,000).
- Love, T. S. (2016). *Title III faculty development travel fund*. (Comprehensive NSF Proposal Development Workshop at the University of Baltimore). Division of Academic Affairs, University of Maryland Eastern Shore. (\$1,000).
- Love, T. S. (2016). *High-impact educational practices fund*. (2016 International Technology and Engineering Educators Association conference in Washington, D.C.). Division of Student Affairs and Enrollment Management, University of Maryland Eastern Shore. [Funded conference travel and attendance for six students]. (\$2,600).
- Love, T. S. (2016). *Title III faculty development travel fund*. (2016 National Science Teacher's Association conference in Nashville, TN). Division of Academic Affairs, University of Maryland Eastern Shore. (\$1,700).
- Love, T. S. (2015). *Title III faculty development travel fund*. (102nd Mississippi Valley Technology Teacher Education Conference in Nashville, TN). Division of Academic Affairs, University of Maryland Eastern Shore. (\$1,100).

PUBLICATIONS AND PRESENTATIONS

Books:

- Roy, K. R., & **Love, T. S.** (in progress). *Safer makerspaces, fab labs and STEM labs: A collaborative guide!* (2nd ed.). Vernon, CT: National Safety Consultants, LLC.
- Roy, K. R., & **Love, T. S.** (2017). *Safer makerspaces, fab labs and STEM labs: A collaborative guide!* Vernon, CT: National Safety Consultants, LLC. ISBN-13: 978-0-692-92408-2.
- DeLuca, V. W., & Haynie, W. J. (2014). *Designing safer learning environments for integrative STEM education* (4th ed., revised by **T. S. Love** & K. R. Roy). Reston, VA: ITEEA.

Journal Articles:

- Love, T. S., & Greiss, C. J. (under review). Rosie Revere's orangutan dilemma: Integrating engineering design and computational thinking in the elementary classroom. *Science and Children*.
- Love, T. S., & Bhatta, A. (2019). The crumble: Integrating computer science through engineering design. *The Technology and Engineering Teacher*, 79(2).
- Gill, M., Koperski, K, **Love, T. S.**, & Roy, K. R. (2019). Developing a culture of safety through departmental planning. *The Technology and Engineering Teacher*, 79(1), 22-25.
- Love, T. S., & Roy, K. R. (2019). Field trip safety in K-12 and higher education. *The Technology and Engineering Teacher*, 78(7), 19-23.

- Love, T. S. (2019). STEM education safety: Temporary concern or enduring practice? Examining the progress of safety in STEM education. *The Technology and Engineering Teacher*, 78(6), 15-17.
- Love, T. S. (2019). Safety perspectives and resources from across the pond. *The Technology and Engineering Teacher*, 78(5), 34-37.
- Hartell, E. (foreword by **Love, T. S.**). (2019). Safety in DTE and crafts education in Sweden. *The Technology and Engineering Teacher*, 78(4), 12-15.
- Love, T. S., & Roy, K. R. (2018). Completing accident/incident reports: Recommendations to avoid legal pitfalls. *The Technology and Engineering Teacher*, 78(3), 20-23.
- Love, T. S., & Roy, K. R. (2018). Who should make your maker spaces? *ASEE Prism*, 28(2), 54.
- Love, T. S. (2018). The T&E in STEM: A collaborative effort. *The Science Teacher*, 86(3), 8-10.
- Love, T. S., & Roy, K. R. (2018). Converting classrooms to makerspaces or STEM labs: Design and safety considerations. *The Technology and Engineering Teacher*, 78(1), 34-36.
- Love, T. S., & Tomlinson, J. (2018). Safer soldering in makerspaces and STEM labs. *The Technology and Engineering Teacher*, 77(5), 20-22.
- Love, T. S., & Roy, K. R. (2018). Safety design challenge: Exciting students using STEM concepts. *The Technology and Engineering Teacher*, 77(4), 21-24.
- Love, T. S., Wells, J. G., & Parkes, K. A. (2017). Examining the teaching of science, and technology and engineering content and practices: An instrument modification study. *Journal of Technology Education*, 29(1), 45-66.
- Love, T. S., & Roy, K. R. (2017). 10 recommendations for a safer school year. *The Technology and Engineering Teacher*, 77(1), 23-25.
- Love, T. S. (2017). Perceptions of teaching safer engineering practices: Comparing the influence of professional development delivered by technology and engineering, and science educators. *Science Educator*, 26(1), 1-11.
- Love, T. S., & Roy, K. R. (2017). Tools and equipment in non-traditional spaces: Safety and liability issues. *The Technology and Engineering Teacher*, 76(8), 26-27.
- Love, T. S., & Strimel, G. (2017). Computer science and technology and engineering education: A content analysis of standards and curricular resources. *The Journal of Technology Studies*, 42(2), 76-88.
- Love, T. S., & Ryan, L. (2017). The crab boat engineering design challenge. *The Technology and Engineering Teacher*, 76(7), 8-14. *
- Love, T. S., & Wells, J. G. (2017). Examining correlations between the preparation experiences of U.S. technology and engineering educators and their teaching of science content and practices. *International Journal of Technology and Design Education*. doi: 10.1007/s10798-017-9395-2. Retrieved from <http://rdcu.be/o61P>
- Loveland, T. & **Love, T. S.** (2017). Technological literacy: The proper focus to educate all students. *The Technology and Engineering Teacher*, 76(4), 13-17.
- Love, T. S., Tomlinson, J., & Dunn, D. (2016). The orange pi: Integrating programming through electronic technology. *The Technology and Engineering Teacher*, 76(2), 24-29.
- Grubbs, M. E., **Love, T. S.**, Long, D. L., & Kittrel, D. (2016). Science educators teaching engineering design: An examination across science professional development sites. *Journal of Education and Training Studies*, 4(11), 163-178. <http://dx.doi.org/10.11114/jets.v4i11.1832>
- Love, T. S., & Roy, K. (2016). 3D printing: What's the harm? *The Technology and Engineering Teacher*, 76(1), 36-37.
- Love, T. S., Love, Z. J., & Love, K. S. (2016). Better practices for recruiting T&E teachers. *The Technology and Engineering Teacher*, 76(1), 10-15.

- Love, T. S., & Salgado, C. A. (2016). Teaching construction: A design-based course model. *The Technology and Engineering Teacher*, 75(7), 22-28.
- Love, T. S. (2015). Examining the demographics and preparation experiences of foundations of technology teachers. *The Journal of Technology Studies*, 41(1), 58-71.
- Love, T. S., & Deck, A. (2015). The ocean platform engineering design challenge: Flooded with STEM content and practices. *Science Scope*, 39(3), 33-40.
- Love, T. S., Kreiser, N., Camargo, E., Grubbs, M., Kim, E. J., Burge, P. L., & Culver, S. M. (2015). STEM faculty experiences with students with disabilities at a land grant institution. *Journal of Education and Training Studies*, 3(1), 27-38.
<http://dx.doi.org/10.11114/jets.v3i1.573>
- Love, T. S. (2015). Preparing safer STEM literate citizens: A call for collaboration. *Tech Directions*, 74(9), 24-29. Retrieved from
<http://www.omagdigital.com/publication?i=252844>
- Love, T. S. (2015). Innovative strategies for more engaging safety instruction. *The Technology and Engineering Teacher*, 75(3), 26-32.
- Love, T. S., & Loveland, T. (2014). Exploring the proposition of a joint conference between state science, and technology and engineering education associations. *Journal of Technology Education*, 26(1), 2-21.**
- Love, T. S. (2014). Safety and liability in STEM education laboratories: Using case law to inform policy and practice [Electronic supplement]. *The Technology and Engineering Teacher*, 73(5), 1-13. Retrieved from
<http://www.iteea.org/File.aspx?id=86487&v=52ffd40f>
- Love, T. S. (2014). Unveiling ITEEA's newest resources for safer integrative STEM education. *The Technology and Engineering Teacher*, 74(1), 15-16.
- Love, T. S. (2013). Addressing safety and liability in STEM education: A review of important legal issues and case law. *The Journal of Technology Studies*, 39(2), 28-41.
- Love, T. S., & Strimel, G. (2013). An elementary approach to teaching wind power. *The Technology and Engineering Teacher*, 72(4), 8-14.
- Love, T. S. (2013). Using case law to address technology and engineering education safety and liability in the Commonwealth of Pennsylvania. *Technology and Engineering Education Association of Pennsylvania Journal*, 61(2), 6-8. ***
- Love, T. S., & Ryan, L. (2012). Featherweight challenge. *The Technology and Engineering Teacher*, 71(5), 33-35.
- Love, T. S., & Valenza, F. (2011). Utilizing vacuum forming to make interdisciplinary connections. *The Technology and Engineering Teacher*, 71(3), 30-34.
- * = ITEEA award winning article
** = CTETE award winning article
*** = TEEAP award winning article

Conference Proceedings:

- Love, T. S. (2018). *Perceptions of safety in makerspaces: Examining the influence of professional development*. Paper presented at the 105th Mississippi Valley Technology Teacher Education Conference, Nashville, TN. Retrieved from
<http://www.mississippivalley.org/wp-content/uploads/2018/11/Perceptions-of-Safety-in-Makerspaces-Love.pdf>

- Love, T. S. (2017, July). Tools and materials in primary education: Examining differences among male and female teachers' safety self-efficacy. In L. Litowitz & S. Warner (Eds.), *Technology and engineering education – Fostering the creativity of youth around the globe*. Proceedings of the 34th Pupil's Attitude Toward Technology Conference, Philadelphia, PA: Millersville University. Retrieved from <http://www.iteea.org/File.aspx?id=115739&v=21dfd7a>
- Love, T. S. (2015). *An examination of preparation experiences that influence technology and engineering educators' teaching of science concepts*. Paper presented at the 102nd Mississippi Valley Technology Teacher Education Conference, Nashville, TN. Retrieved from <http://www.mississippivalley.org/wp-content/uploads/2015/12/Love.pdf>
- Grubbs, M. E., **Love, T. S.**, Long, D. L., & Sterling, D. (2014). Examination of differences in science professional development delivery of the engineering design process. Published Proceedings of the American Educational Research Society International Annual Conference, Philadelphia, PA.
- Love, T. S. (2013). Theoretical underpinnings toward assessing science pedagogical content knowledge (PCK) of technology educators. In J. Williams & D. Gedera (Eds.), *Technology education for the future – A play on sustainability*. Proceedings of the 27th Pupil's Attitude Toward Technology Conference, Christchurch, New Zealand: University of Waikato (pp. 291-296). Retrieved from <http://www.iteea.org/File.aspx?id=39517&v=7cec2187>
- Wells, J. G., & **Love, T. S.** (2013). Mississippi valley technology teacher education conference: Content analysis for 100 years of discussion. In T. L. Erikson (Ed.), *Mississippi Valley Technology Teacher Education Conference: The Proceedings of the 100th Meeting*, Proceedings of the 100th Annual Mississippi Valley Technology Teacher Education Conference, Chicago, IL (pp. 1-24).

Accepted/Upcoming Conference Presentations:

- Love, T. S. (2019, October). *Critical safety considerations for designing and running a makerspace or STEM lab*. Workshop for the Lancaster-Lebanon Intermediate Unit 13. Lancaster, PA.
- Love, T. S., & Asempapa, R. (2019, October). *Teach math modeling concepts through 3D printing*. Presentation at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Lancaster, PA.
- Love, T. S. (2019, October). *Physical computing: Applying computer science to solve engineering design challenges*. Presentation at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Lancaster, PA.
- Love, T. S. (2020, February). *Critical safety considerations for designing and running a makerspace or STEM lab*. Workshop for the Lancaster-Lebanon Intermediate Unit 13. Lancaster, PA.
- Love, T. S. (2020, March). *Physical computing: Integrate programing and engineering design*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Baltimore, MD.
- Roy, K. R., & **Love, T. S.** (2020, April). *Safety in makerspaces and STEM labs: Fostering real-world student experiences!* Presentation at the annual meeting of the National Science Teachers Association, Boston, MA.
- Love, T. S., & Coon, D. (2020, April). *Coding, engineering, and science: Hands-on projects for elementary and middle school*. Presentation at the annual meeting of the National Science Teachers Association, Boston, MA.

Conference Presentations:

- Love, T. S. (2019, July). *Elementary STEM building blocks: EbD TEEMS PreK-6*. Presentation at the 2019 National Science Teachers Association STEM Forum and Expo, San Francisco, CA.
- Love, T. S. (2019, July). *The computer science and computational thinking of STEM*. Presentation at the 2019 National Science Teachers Association STEM Forum and Expo, San Francisco, CA.
- Love, T. S. (2019, June). *Standards based mathematical modeling instruction using 3D printing*. Presentation at the annual Pennsylvania State Department of Education's Computer Science for All Summit, Enola, PA.
- Love, T. S. (2019, June). *Physical computing: Coding, electronic sensors, and hands-on design*. Presentation at the annual Pennsylvania State Department of Education's Computer Science for All Summit, Enola, PA.
- Todd, R., Coon, D., Birks, J., & **Love, T. S.** (2019, March). *Construction, coding and control for all, wow!* Presentation at the annual meeting of the International Technology and Engineering Educators Association, Kansas City, MO.
- Love, T. S., & McCade, J. (2019, March). *Computer science panel: Teaching computer science through engineering design*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Kansas City, MO.
- Love, T. S. (2019, March). *Makerspaces and labs: Designs and safety considerations*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Kansas City, MO.
- Roy, K. R., & **Love, T. S.** (2019, April). *Creating or updating makerspaces and STEM labs with safety in mind!* Presentation at the annual meeting of the National Science Teachers Association, St. Louis, MO.
- Roy, K. R., & **Love, T. S.** (2019, April). *Safer STEM activities through collaboration and cross-curriculum connections*. Presentation during the National Science Education Leadership Association (NSELA) professional development session at the annual meeting of the National Science Teachers Association, St. Louis, MO.
- Love, T. S. (2019, January). *Integrating coding through hands-on engineering challenges*. Presentation at the annual meeting of the Georgia Engineering and Technology Education Association, Rincon, GA.
- Love, T. S. (2018, December). *Makerspace, STEM, and coding initiatives from across Pennsylvania*. Presentation at the annual Pennsylvania State Department of Education's Standards Aligned System (SAS) Institute, Hershey, PA.
- Love, T. S. (2018, October). *Integrating computer science through engineering design*. Presentation at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Lancaster, PA.
- Love, T. S. (2018, October). *Makerspaces and labs: Designs and safety considerations*. Presentation at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Lancaster, PA.
- Love, T. S. (2018, September). *Safety, responsibility and liability while "making": Makerspaces, theatre, after school activities and more!* Presentation at the annual back to school professional learning day for the Montgomery County Public Schools Library and Media Programs, Gaithersburg, MD.
- Love, T. S. (2018, July). *Makerspaces, fab labs, and STEM labs: Designs and safety concerns!* Presentation at the annual meeting of the Virginia Technology and Engineering Educators Association, Alexandria, VA.

- Todd, R., Love, T. S., & Seymour, J. (2018, July). *Practical hands-on coding, logic and control activities for all*. Workshop presented at the annual meeting of the Virginia Technology and Engineering Educators Association, Alexandria, VA.
- Love, T. S. (2018, July). *Safer makerspace and STEM labs: A collaborative approach*. Presentation at the 2018 National Science Teachers Association STEM Forum and Expo, Philadelphia, PA.
- Todd, R., Steeg, T., Love, T. S., Claymier, B., & Seymour, J. (2018, June). *Systems and control workshop*. Presented at the Sims Academy of Innovation and Technology, Winder, GA.
- Basham, L., Camick, P., Crenshaw, M., Livingston, D., & **Love, T. S.** (2018, April). *Council for supervision and leadership panel session: Non-traditional teachers and safety*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Atlanta, GA.
- Claymier, B., **Love, T. S.**, & Todd, R. (2018, April). *Introductory systems and control*. Pre-conference workshop at the annual meeting of the International Technology and Engineering Educators Association, Atlanta, GA.
- Love, T. S., & Roy, K. R. (2018, March). *Addressing makerspace, STEM lab, and fab lab safety hazards*. Presentation at the annual meeting of the National Science Teachers Association, Atlanta, GA.
- Roy, K. R., & **Love, T. S.** (2018, March). *Successful strategies for teaching science lab safety concepts*. Presentation at the annual meeting of the National Science Teachers Association, Atlanta, GA.
- Love, T. S. (2017, October). *Makerspaces and STEM labs: Designs and safety concerns*. Presentation at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Lancaster, PA.
- Love, T. S. (2017, October). *Inspiring the next generation of innovators by teaching STEM*. Workshop at the Delaware CTE Fall Leadership Conference, Dover, DE.
- Love, T. S. (2017, October). *Safety considerations for makerspace and STEM labs*. Presentation at the annual meeting of the Technology and Engineering Educators Association of Maryland, Baltimore, MD.
- Love, T. S., & Bhatti, A. (2017, October). *Introduction to OnShape*. Presentation at the annual meeting of the Technology and Engineering Educators Association of Maryland, Baltimore, MD.
- Love, T. S. (2017, October). *Safer makerspaces and STEM labs*. Presentation at the annual regional meeting of the National Science Teachers Association, Baltimore, MD.
- Allen, R. E., Jin, Y., & **Love, T. S.** (2017, August). *Academic panel: Articulations, MOUs, dual degrees, and partnerships on the horizon*. Presentation at the Opening Activities for UMES's Division of Academic Affairs, Princess Anne, MD.
- Love, T. S. (2017, July). *Makerspace and STEM lab safety*. Presentation at the 2017 National Science Teachers Association/International Technology and Engineering Educators Association STEM Forum and Expo, Orlando, FL.
- Roy, K. R., & **Love, T. S.** (2017, March). *Innovative and engaging strategies for teaching lab safety concepts*. Presentation at the annual meeting of the National Science Teachers Association, Los Angeles, CA.
- Deck, A., Grubbs, M., **Love, T. S.**, & Mentzer, N. (2017, March). *Panel session: I-STEM focal points – defining effective integrative STEM*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Dallas, TX.
- Loveland, T., **Love, T. S.**, Rigler, K., Stewart, K., Grubbs, M., & Strimel, G. (2017, March). *Panel session: Who are we?* Presentation at the annual meeting of the International Technology and Engineering Educators Association, Dallas, TX.

- Rouch, D., **Love, T. S.**, & McLaughlin, C. (2017, March). *CTETE panel session: Addressing the challenges of teacher recruitment*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Dallas, TX.
- Love, T. S. (2017, March). *Recruiting T&E teachers: A collaborative effort*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Dallas, TX.
- Love, T. S., & Moore, J. (2016, October). *Drone design challenge utilizing 3D printing*. Presentation at the annual meeting of the Maryland Association of Science Teachers/Technology and Engineering Educators Association of Maryland, Baltimore, MD.
- Love, T. S., Moore, J., & Brown, C. (2016, October). *UMES technology and engineering education mini-drone project*. Presentation at the Mid-Atlantic Higher Education Business and Research Conference, Princess Anne, MD.
- Deck, A., & **Love, T. S.** (2016, April). *STEMulate student learning by infusing engineering design using the 6Es*. Presentation at the annual meeting of the National Science Teachers Association, Nashville, TN.
- Roy, K. R., & **Love, T. S.** (2016, April). *Safer STEM activities through collaboration!* Presentation at the annual meeting of the National Science Teachers Association, Nashville, TN.
- Roy, K. R., & **Love, T. S.** (2016, April). *STEM teacher liability: Walking on the safer side!* Presentation at the annual meeting of the National Science Teachers Association, Nashville, TN.
- Love, T. S. (2016, February). *Strategies for promoting safer STEM education laboratories*. Presentation at the Frederick County Public Schools Spring T&E Education Professional Development Institute, Frederick, MD.
- Love, T. S., & Warner, S. A. (2015, December). Teaching technology, engineering, innovation and design. Workshop at the annual meeting of the Educators Rising Association of Delaware, Dover, DE.
- Love, T. S. (2015, November). STEM opportunities. Presentation at the meeting of the College of Southern Maryland Educators Rising Club, Prince Frederick, MD.
- Love, T. S., & Grubbs, M. E. (2015, May). Differences in delivery of the engineering design process among science professional development sites. Poster session presented at the Southwest Virginia STEM Summit, Blacksburg, VA.
- Love, T. S., Grubbs, M. E., & Magliaro, S. (2015, April). Differences in how engineering design was taught among science professional development sites. Poster session presented at the 2015 Learning Sciences Research Symposium, Blacksburg, VA.
- Love, T. S., & Deck, A. (2015, March). *Classroom materials and practices for safer Integrative STEM education*. Pre-conference workshop at the annual meeting of the International Technology and Engineering Educators Association, Milwaukee, WI.
- Loveland, T., & **Love, T. S.** (2015, March). *Impact of joint conferences on professional associations*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Milwaukee, WI.
- Roy, K. R., & **Love, T. S.** (2015, March). *Safer STEM activities through collaboration*. Presentation at the annual meeting of the National Science Teachers Association, Chicago, IL.
- Grubbs, M. E., **Love, T. S.**, & Long, D. (2014, November). *Differences in teaching engineering design: Findings and suggestions for response to the NGSS and integration of engineering into science education*. Presentation at the annual professional development institute of the Virginia Association of Science Teachers, Roanoke, VA.

- Love, T. S. (2014, November). *Previewing ITEEA's newest safety resources*. Presentation at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Camp Hill, PA.
- Love, T. S. (2014, October). *Classroom ready safety resources for delivering engineering*. Presentation at the annual meeting of the Maryland Association of Science Teachers/Technology and Engineering Educators Association of Maryland, Ellicott City, MD.
- Loveland, T., & Love, T. S. (2014, October). *Impact of joint conferences*. Presentation at the annual meeting of the Maryland Association of Science Teachers/Technology and Engineering Educators Association of Maryland, Ellicott City, MD.
- Love, T. S. (2014, August). *Mathematics instruction for grades 4-8*. Presentation at the Wythe County Public Schools Professional Development Institute, Wytheville, VA.
- Love, T. S. (2014, July). *Teaching science/math through engineering design*. Presentation at the Southwest Virginia Higher Education Center's annual Summer STEM Institute for K-12 Educators, Abingdon, VA.
- Love, T. S. (2014, March). *Case law, safety, and liability in STEM*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Orlando, FL. Retrieved from <http://www.iteea.org/mbrsonly/Library/SpecialInterest/ORL.htm>
- Grubbs, M. E., & Love, T. S. (2014, March). *Experiences with students with disabilities*. Presentation at the annual meeting of the International Technology and Engineering Educators Association, Orlando, FL.
- Love, T. S., Kreiser, N., Camargo, E., Grubbs, M. E., Kim, E. J., & Burge, P. L. (2014, February). Accommodating higher education students with disabilities: STEM faculty experiences. Poster session presented at the annual Conference on Higher Education Pedagogy, Blacksburg, VA. Retrieved from www.cideronline.org/confPresentations/files/resource-1320-1.pdf
- Love, T. S. (2013, November). *Safety and liability in STEM education: Examining Pennsylvania case law*. Presentation at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Camp Hill, PA.
- Love, T. S. (2013, November). *Methods to improve laboratory safety and avoid liability*. Poster session presented at the annual meeting of the Technology and Engineering Education Association of Pennsylvania, Camp Hill, PA.
- Love, T. S. (2013, October). *Addressing safety and liability in STEM education: Reviewing legal issues and case law*. Presentation at the annual meeting of the Maryland Association of Science Teachers/Technology and Engineering Educators Association of Maryland, Fulton, MD.
- Love, T. S. (2012, March). *Design a candy bar and featherweight challenge*. Poster session presented at the annual meeting of the International Technology and Engineering Educators Association, Long Beach, CA.
- Love, T. S. (2012, October). *Engineering challenges*. Poster session presented at the annual meeting of the Technology and Engineering Educators Association of Maryland, Westminster, MD.
- Love, T. S. (2004, November). *How to make a wooden baseball bat*. Poster session presented at the annual meeting of the Technology Education Association of Pennsylvania, Camp Hill, PA.

Keynote Addresses:

- Love, T. S. (2019, January). *Makerspaces and STEM labs: Designs, safety concerns, and free resources*. Address presented at the Georgia Engineering and Technology Education Association annual meeting, Rincon, GA.
- Love, T. S. (2018, May). *Accessibility and safety in makerspaces*. Address presented at the Maryland Makes Spring Briefing meeting, Salisbury, MD.
- Love, T. S. (2017, December). *Safer makerspaces and STEM labs*. Address presented at the Maryland State Department of Education and Maryland Science Supervisors Association quarterly meeting, Frederick, MD.
- Love, T. S. (2017, May). *Transitioning from athlete to professional*. Address presented at the University of Maryland Eastern Shore Athletic Department Academic Awards Breakfast, Princess Anne, MD.
- Love, T. S. (2015, April). *Applying your honors program experience*. Address presented at the University of Maryland Eastern Shore's 62nd Annual Honors Program Convocation, Princess Anne, MD.

Invited Talks:

- Love, T. S. (2019, February). *Better safety practices for teaching in makerspaces, fab labs, and STEM labs*. Invited talk to the North Carolina State University Technology, Engineering and Design Undergraduate Teacher Preparation Program. Raleigh, NC.
- Love, T. S. (2019, February). *Safer practices for managing your school's makerspaces, fab labs, and STEM labs*. Invited talk to the North Carolina State University MAEd in STEM Education Program. Raleigh, NC.
- Love, T. S. (2018, September). *Managing safer makerspaces, fab labs, and STEM labs*. Invited talk to the Purdue University T&E Teacher Preparation Program. West Lafayette, IN.
- Love, T. S. (2018, July). *Makerspace and STEM lab safety: Critical issues and instructional methods*. Invited talk to the Lancaster-Lebanon Intermediate Unit 13. Lancaster, PA.
- Love, T. S. (2017, November). *STEM labs: Collaborative safety practices for science and T&E educators*. Invited talk to the Worcester County Public Schools Faculty Professional Development Session. Snow Hill, MD.
- Love, T. S. (2017, October). *Maximizing STEM education opportunities through collaboration*. Invited talk to the 2017-2018 International Technology and Engineering Educators Association's 21st Century Leadership Academy cohort. Reston, VA.
- Love, T. S., & Roy, K. R. (2017, September). *Makerspaces, fab labs & stem labs: building in safety!* Invited talk to the International Technology and Engineering Educators Association Integrative STEM Education Professional Learning Community: Session 1. Reston, VA.
- Love, T. S. (2017, September). *Better practices for safer learning in makerspaces and STEM labs*. Invited talk to the Purdue University T&E Teacher Preparation Program. West Lafayette, IN.
- Love, T. S. (2017, May). *Student engagement: Innovative teaching strategies*. Invited talk to the University of Maryland Eastern Shore School of Pharmacy and Health Professions Inter-Professional Faculty Development Seminar. Princess Anne, MD.
- Love, T. S. (2017, April). *Opportunities at UMES and methods for teaching lab safety concepts*. Invited talk to Worcester Technical High School Faculty Professional Development Session. Newark, MD.
- Potter, B. S., & Love, T. S. (2017, March). *Maximizing your STEM lab: Best practices*. Invited talk to the International Technology and Engineering Educators Association Integrative STEM Education Professional Learning Community: Session 3. Reston, VA.

- Love, T. S. (2017, March). *Innovative teaching strategies to engage students*. Invited talk to the University of Maryland Eastern Shore Faculty Learning Community. Princess Anne, MD.
- Love, T. S. (2016, September). *Better practices for safer STEM learning environments*. Invited talk to the Purdue University T&E Teacher Preparation Program. West Lafayette, IN.
- Love, T. S. (2015, October). *Safety training for the technology education lab*. Invited talk to Baltimore County Public Schools New T&E Teacher Safety Training. Baltimore, MD.
- Love, T. S. (2015, August). *Lab safety and STEM education activities*. Invited talk to Queen Anne's County Public Schools Fall CTE Professional Development Session. Stevensville, MD.
- Love, T. S. (2015, June). *Lab safety in science and technology education classrooms*. Invited talk to the Lancaster-Lebanon Intermediate Unit 13. Lancaster, PA.
- Grubbs, M. E., & **Love, T. S.** (2013, November). *Status of integration between science and engineering education*. Invited talk to the College of Education and Human Development at George Mason University. Fairfax, VA.

Videos:

- Love, T. S. (Producer). (2005). *Turning baseball bats on your lathe: An instructional DVD*. Available from Penn State Industries.

Dissertation:

- Love, T. S. (2015). Examining the extent to which select teacher preparation experiences inform technology and engineering educators' teaching of science content and practices (Doctoral dissertation) Virginia Tech, Blacksburg, Virginia. Retrieved from <http://vtechworks.lib.vt.edu/handle/10919/64004>

AWARDS

ITEEA Leaders to Watch	2019
CareerSafe® Safety Educator of the Year Award (Presented at ACTE CareerVision)	2019
ITEEA's Dr. Gerald Day Excellence in Authorship Award: Top Peer-Reviewed Article by a University/Classroom Teacher Team	2018
TEEAM Leadership Award	2017
University of Maryland Eastern Shore (UMES) "Ductus Exemplo" Distinguished Alumnus Award	2015
ITEEA's CTETE Silvius-Wolansky Outstanding Publication Award	2015
Virginia Tech Graduate School Student of the Year: 1 of 4 Finalists	2015
Dr. Nevin Andre Award for Outstanding TEEAP Journal Article	2014
ITEEA Star of the Month	August 2014
Virginia Tech Graduate School Student of the Year – Finalist and Honorable Mention	2014

Virginia Tech College of Liberal Arts and Human Sciences Outstanding Doctoral Student Finalist	2014
Iota Lambda Sigma Nu (Maryland Chapter) Scholar of the Year	2014
21st Century Leadership Academy, coordinated by ITEEA	2013-2014
Virginia Tech's Outstanding Student in Integrative STEM Education	2011-2012
Underrepresented Minorities: A Rich Pool of STEM Talent Scholar	2012
TEEAM Donald Maley Graduate Scholarship	2011
UMES Male Student Athlete Sportsmanship Award	2009
ITEEA Tetterton/Foundation for Technology Education Scholarship	2009
NCAA Division 1 Baseball Senior CLASS Award: 1 of 30 National Finalists	2009
UMES Male Scholar Athlete of the Year	2007-2008