TTU Box 5042 Cookeville, TN 38505 * 931-372-3459 * swendt@tntech.edu

## Education

## Tennessee State University

- Doctor of Education (Ed.D.); Educational Administration \& Supervision
- Administrator's License


## Tennessee Technological University

- Education Specialist (Ed.S.): Instructional Leadership
- Master of Arts (M.A.): Curriculum \& Instruction;
- Licensure and Certification to teach grades 1-8
- Highly Qualified Status K-6
- Bachelor of Science (B.S.) in Sociology; Social Work
- Associate Degree in Criminal Justice


## Professional Experience

## Tennessee Technological University; Cookeville TN

- Professor, Teacher Education
- Associate Professor, Elementary Education
- Assistant Professor, Elementary Education
- Instructor, Department of Curriculum \& Instruction
- Adjunct Instructor, Department of Curriculum \& Instruction
- Office of Teacher Education

Courses: CUED 4700- Education Data and Assessment (online: iLearn)
CUED 4850 - Workshop in Education: In the Content Areas (online: iLearn)
CUED 6800 - Field Experience
CUED 7010 - Learning Theories (online: iLearn) *Course Developer
CUED 7530 - Design Integrated Tech Environments (online: iLearn)
CUED 7801- Lab/Field Experience in Education Technology (online: iLearn)
CUED 7802 - Lab/Field Exp. In Education/Grant Writing (online: iLearn)
ELED 3150-Teaching of Mathematics
ELED 3152 - Teaching of Mathematics
ELED 4140 - Science for Elementary Teachers
ELED 4142 - Science for Elementary Teachers
ELED 6400 - Adv. Studies in Elementary Science Education
ELED 6500 - Diagnosis and Remedial Techniques of Elementary Mathematics
FOED 1822 - Introductory Field Experience and Orientation
FOED 3800 - Field Experience in Education
New Courses Developed:
CUED 7010 - Learning Theories
CUED 7802- Lab/Field Exp. In Education/Grant Writing
ELED 6400- Adv. Studies in Elementary Science Education (Online Version)
ELED 4142- Science for Elementary Teachers (Online Version)

Advisement: $\quad$ Graduate Students (Average annual load 2012-2022: 18 advisees)

- $3^{\text {rd }}$ grade teacher
- Lead Mentor for Prescott South Elementary School


## Capshaw Elementary School: Cookeville TN

- $3^{\text {rd }}$ grade teacher
- $4^{\text {th }}$ grade teacher
- Inclusion Teacher $4^{\text {th }}$ grade

Bondecroft Elementary School: Sparta, TN
(2000-2001)

- $4^{\text {th }}$ grade teacher


## Publications, Manuscripts, \& Editorial Work

Greathouse, P., Hundley, M., \& Wendt, S. (Eds.). (2023). Exploring science through young adult literature. Rowman \& Littlefield.

Wendt, S. (2022-2023). Reviewer. Science and Children. National Science Teachers Association.
Wendt, S. (2022). Session Reviewer for the NSTA 2023 national conference in Atlanta, GA.
Wendt, S., Ogbomo, Q., \& Fidan, P. (July, 2022). Preservice Teachers' Perceptions Regarding Participation in a Community-Based STEM Night. The International Journal of Science, Mathematics and Technology Learning 29(2). doi:10.18848/2327-7971/CGP/v29i02/53-65.

Wendt, S. (2022). Senior Reviewer for the International Academic Forum's Journal of Education: Technology in Education.

Greathouse, P., Hundley, M., \& Wendt, S. (2022, Summer). Editor of chapter drafts for the book Exploring science through young adult literature. Spring 2023 publishing date. Rowman \& Littlefield.

Wendt, S. (June 2021-July 2022). Reviewer of HQIM Math Curriculum Models. Deans for Impact. Reviewed content modules as part of the ARC Consortium Team-Tennessee Tech University, Lipscomb University, University of TN Knoxville, Nashville Teacher Residency)

Greathouse, P., Hundley, M., \& Wendt, S. (2021). Publishing agreement accepted for the book Exploring science through young adult literature. Reviewing chapter proposals for Spring 2023 publishing date. Rowman \& Littlefield.

Ogbomo, Q. \& Wendt, S. (2021, January 5). Review of the book [A single garment: Creating intentionally diverse schools that benefit all children, by Genevieve Siegel-Hawley]. Teachers College Record. Columbia, University. https://journals.sagepub.com/pbassets/cmscontent/TCZ/TCZ\ Book\ Reviews\ 2021/January\ 2021/A\ Single\ Garmen t-1651078928.pdf

Wendt, S. (2021-2022). Reviewer. Science and Children. National Science Teachers Association.
Wendt, S. (2021). Senior Reviewer. Journal of Education-Studies in Education; International Academic Forum (IAFOR).

Ogbomo, Q. \& Wendt, S. (2021, Summer). Teaching k-5 during the pandemic: Recommendation for successful online implementation. The Teacher Advocate. Kappa Delta Pi: International Honor Society in Education.

Fidan, P., Wendt, S., Wendt, J., Fidan, I. (2020, June). Enhancing STEM Education: Learning about Biomedical Engineering with 3D Pens. Paper published in conference proceedings for the 2020 ASEE (Virtual) Annual Conference \& Exposition, Montreal, Quebec, Canada.

Wendt, S. (2020). Senior Reviewer. Journal of Education-Technology in Education; International Academic Forum (IAFOR).

Wendt, S. (2020). Senior Reviewer. Journal of Education-Studies in Education; International Academic Forum (IAFOR).

Wendt, S. (2020). Senior Reviewer. Southeast Asian Conference on Education. Singapore.
Meadows, J., Baker. J., \& Wendt, S. (2020). Fab Fridays: Fostering elementary teacher candidate preparation through informal STEM events. The Journal of STEM Teacher Education, 54(1).

Wendt, S., Beach, J., \& Wendt, J. (2020) 3D Printing: Practical Applications for K-16 Education. Khine, M., \& Ali, N (Eds.) Integrating 3D Printing into Teaching \& Learning: Practitioner's Perspectives. Brill/Sense.

Wendt, S., Stepp, J., Meadows, J. (2019). STEM in the school library: A makerspace frontier. The TAMS Journal, 22-36. (Tennessee Association of Middle Schools, peer-reviewed).

Wendt, S., Spears, A., \& Fidan, P. (2018). Using children's nonfiction trade books to address scientific misconceptions. The International Journal of Interdisciplinary Educational Studies, 12(53). DOI: https://doi.org/10.18848/2327-011X/CGP/v12i03/31-43

Wendt, S. (2017-2020). Reviewer for the National Science Teachers Association. Science and Children.
Wendt, S. (2017-2018). Associate Editor for the Social Sciences Collection.
Wendt, S. \& Spears, A. (2017). Hold your breath! Using Code Orange to teach biology through the history, nature, and treatment of infectious disease. In P. Greathouse, J. Kaywell \& B. Eisenbach (Eds.) Adolescent Literature as a Complement to the Content Areas: Science and Math (39-50). New York, NY: Rowman and Littlefield.

Wendt, S. (2016-2017). Associate Editor for the Social Sciences Collection.
Wendt, S. (2016). Associate Editor for the International Journal of Interdisciplinary Social Sciences.
Wendt, S. (2016-2017). Reviewer for the National Science Teachers Association. Science and Children.
Wendt, S., \& Wendt, J. (2016). Printing the Playground. In L. Froschauer (Ed.), Bringing STEM to the elementary classroom (pp. 133-140). Arlington, VA: NSTA press

Wendt, S. (2015). Associate Editor for the International Journal of Science in Society.

Wendt, S., Isbell, J.K., Fidan, P., \& Schons, C. (2015, September). Female elementary teacher candidates’ attitudes and self-efficacy for teaching engineering concepts. The International Journal of Science in Society, 7(3), 1-11. DOI: https://doi.org/10.18848/1836-6236/CGP/v07i03/51453

Wendt, S. \& Wendt, J. (2015, January). From student model design to physical reality: 3D printing the playground. Science and Children, 52(5), 43-47.

Kyte, K., Wendt, J., Wendt, S., \& Beach, J. (2014, June). Teachers' Experiences and Perspectives on the Integration of Technology. In Proceedings of the World Conference on Educational Multimedia, Hypermedia and Telecommunications 2014. Chesapeake, VA: AACE.

Wendt, J., \& Wendt, S. (2014, February). Tech-savvy Strategies for the Classroom Teacher. Visions and Revisions. Tennessee Council of Teachers of English.

Wendt, J. \& Wendt, S. (2012). Online Course Success: Adapting Course Design to Focus on Learning. In Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2012 (pp. 448-452). Chesapeake, VA: AACE.
Retrieved from http://www.editlib.org/p/41632.
Wendt, S. (2012). The effects of differentiated instruction support inclusion services on fifth grade reading/language arts achievement. (Doctoral Dissertation). Completed at Tennessee State University. Abstracted in UMI Proquest Digital Dissertations.

## Grant Involvement

Co-PI: (2022-2025). Research Experiences for Teachers (RET) in Engineering and Computer Science. Energizing Teachers. National Science Foundation. PI: Joe Biernacki. Co-PI: Indranil Bhattacharya. (Not funded; 599,996)

Co-PI: (2021-2024). I-USE: Improving Undergraduate Success through Effective Critical Thinking. National Science Foundation. PI: Joe Biernacki. Co-PI: Indranil Bhattacharya (Funded; \$298,284)

Co-PI: (2021). Ambassadors for Designing and Delivering Virtual Interactive Instruction for STEM Education $\left(\mathrm{AD}^{2} \mathrm{VI}^{2} \mathrm{SE}\right)$. TBR: Student Engagement, Retention and Success Grant. PI: Darek Potter. Co-PIs: Jennifer Meadows, Kelly Moore, Jane Baker, Holly Anthony, Carlos Galindo; Senior Personnel: Carey Wilson. (Funded; $\$ 50,000$ )

Co-PI: (2021). Rural STEM league: Building confidence and success through informal stem learning. Advancing Informal STEM Learning (AISL) Grant Program from the National Science Foundation (NSF 20-607). PI: Darek Potter. Co-PIs: Amy Callender, Jennifer Meadows, Kelly Moore. Senior Personnel: Jane Baker, Lisa Zagumny. (Not funded; $\$ 2,907,967$ )

PI: (2020, Feb.) QEP Faculty Development Grant to attend the National Conference on Science Education in Boston, MA. $\$ 1000$ (Funded)

PI: (2019, Aug.). EDGE Sustainability Grant: ELED 4142. Preparing Educational Leaders Through Creative Inquiry. \$300 (Funded)

PI: (2019-2020). EDGE Course and Curriculum QEP (Quality Enhancement Plan) grant: FOED 3800 Preparing preservice teachers through creative inquiry supported by virtual reality. \$5,700 (Funded)

PI: (2019, Jan.). EDGE Sustainability Grant: ELED 4142. Preparing Educational Leaders Through Creative Inquiry. \$1,000 (Funded)

PI: (2019). QEP Faculty Development Grant to attend the National Conference on Science Education in St. Louis, MO. \$1,000 (Funded)

PI: (2018). EDGE Sustainability Grant: ELED 4142. Preparing Educational Leaders Through Creative Inquiry. \$1,000 (Funded)

PI: (2018). QEP Faculty Development Grant to attend the NSTA national conference Science On My Mind, in Atlanta, GA. \$1,000 (Funded)

Co-PI. (2017). Teacher demand: Supporting add-on endorsements in high need subject areas. Tennessee Innovation in Preparation grant, facilitated by the Tennessee State Department of Education. PI: Julie Baker. CoPIs: Tessa Bishop, Jennifer Meadows, Darek Potter, Dorota Silber-Furman, Stephanie Wendt, and Lisa Zagumny. (not funded; \$48,240)

PI: (2017-2018). QEP (Quality Enhancement Plan) grant
Co-PI: Dr. Leann Taylor
Preparing Educational Leaders Through Creative Inquiry. \$7,000 (Funded)
PI: (2017-2018). QEP (Quality Enhancement Plan) EDGE First-Year Connections Instructional Development grant. Teaching in the Real World. $\$ 2,000$ (Funded).

Co-PI: (2017). Tennessee Higher Education Commission. Improving Teacher Quality grant
PI: Dr. Julie Stepp
Librarians and makerspaces: Enhancing learning and literacy across content areas. \$75,000 (Funded).
Professional Development Instructor (2015-2017). Digging deep into science literacy math science partnership grant: Campbell County Schools. (Funded)

Co-PI: (2016). Tennessee Higher Education Commission.
PI: Dr. Cynthia Rice
Co-PIs: Dr. Twanelle Majors
Learning to Speak STEM for the TN Workforce: Applying SciMath to Alternative Energy Through TeacherDriven Hypothesis Testing. \$75,000 (Not funded)

Co-PI: (2016). ALAN Foundation Grant. Research in the use of young adult literature. $\$ 1500$ (Not funded)
PI: Dr. Paula Greathouse
Co-PI: Dr. Amber Spears

PI: Faculty Research Grant. Teaching Children to Love Science. Submitted January, 2015. \$10,000 (Not funded).
Professional Development Instructor (2014-2015). Upper Cumberland 5-8 SciMath. Math \& Science Partnership Grant. PI: Putnam County Schools. \$946,565 (Funded)

Senior Personnel (2015-2016). RapidTech National Center for Rapid Technologies. PI: Fidan, I., \$239,705 (Not funded)

Senior Personnel (2014). STEM Team for Middle Tennessee teacher participants in the Putnam County Math \& Science Partnership Grant. Wendt, S., Allen, M., Beach, J., \& Pardue, S. STEM Center, Tennessee Tech University.

PI: Faculty Research Grant (2013). Picture Perfect Science. \$10,000 (not funded).
PI: Quality Enhancement Plan \{QEP $\}$ (2013). ELED 4140. Elementary Engineers' Academy. $\$ 2,916.95$ (funded)
Senior Personnel (2012). National Science Foundation (NSF) Innovative Technology Experiences for Students and Teachers (ITEST). \$1,200,00 (not funded).
PI: Dr. Jeremy Wendt
Co-PIs: Dr. Jason Beach, Dr. Hyuksoo Kwon, Dr. Sally Pardue
Co-PI (2012). Tennessee Higher Education Commission.
PI: Dr. James Roberson
Co-PIs: Dr. Girija Shinde \& Dr. Bethany Stevens
Learning Math Through Science: An Upper Cumberland Common Core Initiative. \$72,000(funded)
PI: (2008). Goody's Good Deeds for Schools Program. \$10,000
Co-PIs: Dr. Jeremy Wendt \& Emily Pierce
Interactive White Boards for the Classroom $\$ 10,000$ (not funded).
PI: (2004). Butterfly Garden Learning Project. Grant submitted to Lowe's Classroom Garden Grant Program. $\$ 1,000$ (not funded).

Teacher/Module Content Creator (2002-2003). Constructing Physics Understanding for Elementary Teachers. Grant funded by the National Science Foundation, Dr. Steve Robinson, TTU. Project website: http://cpucips.sdsu.edu/web/pet/index.html

PI: (April, 2001). Mini-grants for Technology. Grant submitted to State of Tennessee. \$2,000 (funded)
PI: (October, 2000). Mini-grants for Technology. Grant submitted to State of Tennessee. \$2,000 (funded)

## International \& National Conference Presentations \& Papers

Wendt, S., Beach, J., Simone, K., Wendt J., \& Elrod, D. (2023, Sept.) Preservice teacher perceptions of using $360^{\circ}$ cameras and virtual reality for education Preparation. Paper submission accepted for presentation at The Barcelona Conference on Education (BCE2023)

Wendt, S. (2022, June). Improving Undergraduate Success through Effective Critical Thinking (iUSE-CT). Poster Presentation presented at the 2022 IUSE Summit: Propelling Change: Moving from Strategy Toward Effective \& Equitable Undergraduate STEM Education. Poster Collaborators: T. Majors; J. Biernacki; I. Bhattacharya; L. Weathers. Washington D.C. AAAS/National Science Foundation.

Wendt, S. \& Fidan, P. (2022, April). Using NGSS Phenomena: Three-Dimensional Instruction in a Fascinating World. Session presented at the NSTA National Conference in Science Education. Houston, TX.

Wendt, S. \& Fidan, P. (2022, April). Insulating Tiny Homes: An Empathetic STEAM Investigation for 4th Graders. Invited session presented during the Elementary Extravaganza at the NSTA National Conference in Science Education. Houston, TX.

Fidan, P., Wendt, S., Wendt, J., \& Fidan, I. (2020, June). Curriculum Resource Exchange Paper Presentation. Enhancing STEM Education: Learning about Biomedical Engineering with 3D Pens. Paper presented for the 2020 ASEE (Virtual) Annual Conference \& Exposition, Montreal, Quebec, Canada.

Wendt, S., \& Wendt, J. (2020, April). Invited Authors, NSTA Elementary Extravaganza 2020 Showcase. Session to be presented at the NSTA National Conference in Science Education. Boston, MA. (Accepted; Cancelled due to COVID-19).

Wendt, S., Wendt, J., \& Braisted, L. (2020, April). Using NGSS Phenomena: Three-Dimensional Instruction in a Fascinating World. Session to be presented at the NSTA National Conference in Science Education. Boston, MA. (Accepted; Cancelled due to COVID-19).

Wendt, S., \& Ogbomo, Q. (2020, Feb.). Transforming instructional practice through a community STEM night: A partnership between preservice teachers and an elementary STEM school. Session presented at the Southeast Asian Conference on Education. Singapore.

Wendt, S., \& Wendt, J. (2019, April). Invited Authors, NSTA Elementary Extravaganza 2019 Showcase. Session presented at the NSTA National Conference in Science Education. St. Louis, MO.

Trent, K., Suters, L., Wendt, S., Ogbomo, Q., Moore, K. (2019, Jan.) Preliminary analysis of a two-year science and literacy MSP grant for $k$ - 12 teachers in four rural districts. Research paper presented at the $17^{\text {th }}$ Annual Hawaii International Conference on Education. Honolulu, HI. (accepted; unable to attend due to lack of funding)

Fidan, P., \& Wendt, S. (2018, Nov.) A guide for selecting multicultural books in content areas. Session presented at the 2018 National Association for Multicultural Education annual conference. Memphis, TN.

Wendt, S., Spears, A., \& Fidan, P. (2018, August). Using children's nonfiction trade books to address scientific misconceptions. Research paper to be presented at the Thirteenth International Conference on Interdisciplinary Social Sciences. University of Grenada, Grenada Spain. (accepted; unable to attend due to lack of funding)

Suters, L., Moore, K., \& Wendt, S. (2018, May). Beauty and the Beak - An Engineering Design Project using Informational Texts and 3D Printing. for the 2018 Tennessee STEM Innovation Summit.

Wendt, S., \& Wendt, J., Fidan, P. (2018, March). Invited Authors, Elementary Extravaganza STEM Showcase. Session to be presented at the NSTA National Conference in Science Education. Atlanta, GA.

Wendt, S., Moore, K., Meadows, J., Fidan, P. (2018, March). Using discrepant events to jump-start inquiry. Session to be presented at the NSTA National Conference in Science Education. Atlanta, GA.

Pennycuff-Trent, K. and Suters, L., Wendt, S., Lashley, T., \& Ogbomo, Q. (2018, March). Digging Deep Into Science Literacy: Exploring Close Reading and Technical Writing in Science for Grades K-8. Session presented at the NSTA National Conference in Science Education. Atlanta, GA.

Pennycuff-Trent, K. and Suters, L., Wendt, S., Lashley, T., \& Ogbomo, Q. (2018, January). Digging Deep Into Science Literacy: Exploring Close Reading and Technical Writing in Science for Grades K-8. Presented at the International Meeting of the Association for Science Teacher Education in Baltimore, MD.

Pennycuff-Trent, K. and Suters, L., Wendt, S., Lashley, T., \& Ogbomo, Q. (2018, January). Examination of Professional Development on Content Knowledge, Pedagogy, and Efficacy of Teaching Literacy and Science Concepts for Kindergarten through Eighth Grade Teachers in Four Rural Districts in Appalachia. Presented at the International Meeting of the Association for Science Teacher Education in Baltimore, MD.

Trent, K., Suters, L., Wendt, S., Ogbomo, Q., \& Lashley, T. (2017, November). Preliminary analysis of a twoyear science and literacy MSP grant for K-12 teachers in four rural districts. Presented at the at the 2017 Association for the Advancement of Educational Research Seventeenth Annual Conference. Sanibel Island, FL.

Spears, A., \& Wendt, S. (2017, July). Cultivating kindergarten students' use of scientific argumentation using outstanding science trade books: Increasing student comprehension and achievement. International Literacy Association Conference. Orlando, FL.

Wendt, S. (2017, April). Invited Author, Elementary Extravaganza STEM Showcase. 2017 NSTA National Conference: Sun, Surf, \& Science. Los Angeles, CA.

Wendt, S., Fidan, P., \& Spears, A., Rogers, A. (2017, April). Using Discrepant Events to Jump Start Inquiry. 2017 NSTA National Conference: Sun, Surf, \& Science. Los Angeles, CA.

Wendt, S., Spears, A., \& Fidan, P. (2016, August). The Interrelationship between children's scientific misconceptions and nonfiction children's trade books. Research paper presented at the Eleventh International Conference on Interdisciplinary Social Sciences, Imperial College London, UK.

Wendt, S., \& Wendt, J. (2016, July). Invited Authors, Elementary Extravaganza STEM Showcase. National Science Teachers Association (NSTA) STEM Forum, Denver, CO.

Spears, A. \& Wendt, S. (2016, May). Scientific argumentation in the kindergarten classroom: Supporting understanding of scientific knowledge using outstanding children's literature. Research presented at the Twelfth International Congress of Qualitative Inquiry, University of Illinois at Urbana-Champaign.

Wendt, S., \& Wendt, J. (2016, April). Invited Authors, Elementary Extravaganza. Conference session for the National Science Teachers Association (NSTA) National Conference, Nashville, TN.

Wendt, S., \& Rogers, A. (2016, April). Newton's Nightmare: A magnetic mystery! Conference session for the National Science Teachers Association (NSTA) National Conference, Nashville, TN.

Greathouse, P., \& Wendt, S. (2016, April). Using young adult literature to support content learning and reading comprehension in the science classroom. Conference session for the National Science Teachers Association (NSTA) National Conference, Nashville, TN.

Wendt, S., \& Rogers, A. (2015, October). Book a flight with us! Intersecting Newton's Laws with Literacy. Conference session for the National Science Teachers Association (NSTA) Area Conference, Reno, NV.

Greathouse, P., Wendt, S., \& Rogers, A. (2015, October). Young adult literature as a value-added dimension to the science classroom. Accepted for a conference session for the National Science Teachers Association (NSTA) Area Conference, Reno, NV.

Wendt, S., Isbell, J.K., Fidan, P., \& Schons, C. (2015, October). Female elementary teacher candidates' attitudes and self-efficacy for teaching engineering concepts. Paper accepted for presentation at the 7th International 2015 Science in Society Conference, Chicago, IL.

Wendt, S., Isbell, J.K., Fidan, P., \& Schons, C. (2015, May). Teacher candidates' attitudes and self-efficacy toward teamwork for teaching STEM in the elementary classroom. Paper presented at the Eleventh International Congress of Qualitative Inquiry, University of Illinois at Urbana-Champaign.

Wendt, S., McCormick, D., \& Isbell, J.K. (2015, January). Elementary Engineers Academy: Problem solving with teacher candidates in an elementary setting. Paper presented at the Hawaii International Conference on

Education, 2015. Oahu, HI.
Wendt, S., \& Scott, S. (2014, October). Roller Coaster Science. Conference session for the National Science Teachers Association (NSTA) Area Conference, Richmond, VA.

Scott, S., \& Wendt, S. (2014, October). Art in Science Class? Yes! Conference session for the National Science Teachers Association (NSTA) Area Conference, Richmond, VA.

Wendt, J. \& Wendt, S. (2014, June). Teachers' Experiences and Perspectives on the Integration of Technology. Session/Paper Presentation for the Association for the Advancement of Computing in Education (AACE) World Conference on Educational Multimedia, Hypermedia and Telecommunications, Tampere, Finland.

Wendt, S. (2014, June). Session Presider. Association for the Advancement of Computing in Education (AACE) World Conference on Educational Multimedia, Hypermedia and Telecommunications, Tampere, Finland.

Wendt, J. \& Wendt, S. (2012, October). Online course success: Adapting course design to focus on learning. Peer-reviewed paper presentation for the Association for the Advancement of Computing and Education (AACE) E-LEARN 2012-World Conference on E-Learning in Corporate, Government, Healthcare and Higher Education, Montreal, Canada.

## State \& Regional Conference Presentations

Wendt, S., Greathouse, P., \& Hundley, M. (2022, Nov.) Using Young Adult Literature to Support Content Learning and Reading Comprehension in the High School Science Classroom. Session to be presented at the Science Force: Always Above the Standards Tennessee Science Teachers Association (TSTA) State Conference. Murfreesboro, TN.

Wendt, S., Greathouse, P., \& Hundley, M. (2022, Nov.) .) Using Young Adult Literature to Support Content Learning and Reading Comprehension in the Middle School Science Classroom. Session to be presented at the Science Force: Always Above the Standards Tennessee Science Teachers Association (TSTA) State Conference. Murfreesboro, TN.

Wendt, S. \& Fidan, P. (2022, May). Ozobots and Cubelets Tutorial. Pre-recorded video session presented as part of Integrating Programming in the Primary Science Classroom - Yes, you can! for the 2022 TN STEM Innovation Summit (TSIN). Co-Presenters: Suters, L., J. Meadows, Richards, S., Hannah, A., \& Danford, C.

Wendt, S. \& Fidan, P. (2021, Oct.) Using Phenomena to get Students Excited About Science. Session presented at the annual state conference for the Tennessee Science Teachers Association (TSTA). Embassy Suites, Murfreesboro, TN.

Wendt, S., Fidan, P., \& Elrod, D. (2020, December). Using children's trade books to celebrate diversity in STEM. Session presented for the Literacy Association of Tennessee's Annual Virtual Conference.

Wendt, S., Fidan, P., \& Rogers, A. (2020, November). Using children's trade books to celebrate diversity in Science. Session presented for the Tennessee Science Teachers Association (Virtual) State Conference.

Wendt, S. \& Fidan, P. (2020, July.) Engaging Students with the NGSS Phenomena Page for Grades 3-8. Virtual Session presented for the Digital Science Teaching Training summer conference workshop: Tennessee Science Teachers Association (TSTA).

Wendt, S. \& Braisted, L. (2019, Nov.) Immersive virtual reality for teaching math \& science in the elementary classroom. Session presented at the 3D Learning: Full STEAM ahead conference: Tennessee Science Teachers Association (TSTA) Conference. Murfreesboro, TN.

Fidan, P. \& Wendt, S. (2019, Nov.). Butterfly adventure: Creating butterflies using 3D pens. Session presented at the 3D Learning: Full STEAM ahead conference: Tennessee Science Teachers Association (TSTA) Conference. Murfreesboro, TN.

Fidan, P. \& Wendt, S. (2019, Nov.). Engineering challenge: Building towers with shapes using 3D pens. Session presented at the 3D Learning: Full STEAM ahead conference: Tennessee Science Teachers Association (TSTA) Conference. Murfreesboro, TN.

Fidan, P., Eldaba, A., \& Wendt, S. (2019, July). Using Multicultural Picture Books in Content Areas. Session presentation, TN NAME conference. Cookeville, TN.

Wendt, S. \& Wendt, J. (2019, Jun.) Eureka! Grades 3-5 science activities and stories. Presentation given at the Upper Cumberland Literacy Association Summer Conference. Cookeville, TN.

Wendt, S. \& Fidan, P.(2018, Nov.) Using 3D pens to teach biomedical engineering in the Elementary STEM Classroom. Presentation given at the 2018 TSTA Conference and Professional Development Institute. Murfreesboro, TN.

Fidan, P., Wendt, S. (2018, Nov.) Crossroads to the future: Building Bridges with 3D pens. Presentation given at the 2018 TSTA Conference and Professional Development Institute. Murfreesboro, TN.

Suters, L., Wendt, S., Ogbomo, Q. (2018, Sept.) Digging Deep into Science Literacy: Examination of Professional Development. Oral Presentation presented at the Mid-Atlantic Association for Science Teacher Education Annual Conference. Harrisonburg, VA.

Suters, L., Trent, K., Wendt, S., Moore, K. (2018, May). Beauty and the beak-An engineering design project using informational texts and 3D printing. Hands-on presentation at the 2018 Tennessee STEM Innovation Summit.

Fidan, P., \& Wendt, S. (2017, November). 3D Printer Pens for the Elementary and Middle School Classrooms. Session to be presented at the annual TSTA Professional Development Conference. Murfreesboro, TN.

Stanley, G., Suters, L., Trent, K., \& Wendt, S. (2017, February). Digging Deep Into Science Literacy MSP Grant. Eleventh Annual TN STEM Education Research Conference. Murfreesboro, TN.

Wendt, S., Fidan, P., Rogers, A., Spears, A., Lowe, T., \& Barnes, Z. (2016, November). Magic of science: Building conceptual understanding through discrepant events. TSTA Professional Development Conference. Murfreesboro, TN.

Wendt, S. (2016, June). Picture Perfect Science: Pecha Kucha Sessions. Tennessee Tech University--International Reading Association, Cookeville, TN.

Spears, A., \& Wendt, S. (2016, June). The next time you see: Using nonfiction texts to explore the natural world. Tennessee Tech University--International Reading Association, Cookeville, TN.

Wendt, S. \& Scott, S. (2014, November). Float Your Boat: Picture Perfect Science. Tennessee Science Teachers Association Annual State Conference: Putting the Pieces Together, Murfreesboro, TN.

Ramey, K. \& Wendt, S. (2014, November). Molecular Visualization for Chemistry and Physical Science. Tennessee Science Teachers Association Annual State Conference: Putting the Pieces Together, Murfreesboro, TN.

Wendt, S. \& Wendt, J. (2014, April). Practical Strategies for Building Student Character Through Content \& Technology. Tennessee Education Association's 18th Annual Teaching and Learning Spring Symposium: Teaching, Achieving, Succeeding. Gatlinburg, TN.

Harris, B. \& Wendt, S. (2013, November). STEM Lesson Kits: Segment 2. Tennessee Science Teachers’ Association (TSTA) Annual State Conference: Engineering Effective Science with the Common Core, Murfreesboro, TN.

Harris, B. \& Wendt, S. (2013, November). STEM Lesson Kits: Segment 1. Tennessee Science Teachers' Association (TSTA) Annual State Conference: Engineering Effective Science with the Common Core, Murfreesboro, TN.

Wendt, S. \& Rogers, A. (2013, November). Picture Perfect Science in the Elementary Classroom: Earthlets. Tennessee Science Teachers' Association (TSTA) Annual State Conference: Engineering Effective Science with the Common Core, Murfreesboro, TN.

Rogers, A. \& Wendt, S. (2013, June). Picture Perfect Science in the Elementary Classroom: The Secrets of Flight. TTU-IRA 2013 Summer Literacy Conference, Cookeville High School.

Wendt, S. \& Ramey, K. (2012, November). Teaching common core math through hands-on science activities. P-16 Mini Workshops, Tennessee Technological University.

Wendt, S. \& Nash, K. (2012, November). Learning math through life science. Tennessee Science Teachers' Association (TSTA) Annual State Conference: Framing the Common Core, Murfreesboro, TN.

Wendt, S. \& Wendt, J. (2012, September). Ten fun hands-on math activities to teach common core standards: Segment 1. Session presentation at the Student Tennessee Education Association State Leadership Conference, Nashville, TN.

Wendt, S. \& Wendt, J. (2012, September). Ten fun hands-on math activities to teach common core standards: Segment 2. Session presentation at the Student Tennessee Education Association State Leadership Conference, Nashville, TN.

Wendt, S. \& Wendt, J. (2012, September). Ten fun hands-on math activities to teach common core standards: Segment 3. Session presentation at the Student Tennessee Education Association State Leadership Conference, Nashville, TN.

Wendt, S. \& Ramey, K. (2012, September). Hands-on math activities for teaching common core standards. Tennessee Mathematics Teachers Association (TMTA) Annual Meeting, Tennessee Technological University.

Wendt, S. \& Wendt, J. (2012, April). Ten hands-on math lessons for the common core classroom. Explore Common Core Conference session at Motlow State, Tullahoma, TN.

Smith, S., Wendt, J., Long, L., \& Wendt, S. (2010, June). It takes a village. Conference session for the Upper Cumberland Leadership Council, Fall Creek Falls State Park, TN.

## Professional Development Presentations

Education Faculty for the Research Experiences for Teachers (RET) in Engineering and Computer Science. Energizing Teachers. National Science Foundation. Workshop (Weekly meetings in June/July 2023).

Education Faculty for the I-USE: Improving Undergraduate Success through Effective Critical Thinking. National Science Foundation. Workshop. (June 13, 2023).

Wendt, S. \& Fidan, P. (2017-2022). Manufacturing Engineering Day Showcase \& Recruitment Event for the College of Engineering. 3D Pen Presentation for Junior Colleges and High School Seniors in Tennessee.

Potter, D., Galindo, C., \& Wendt, S. (2021, Nov.) ARISE Grant. Presentation given over accessibility for Virtual Lessons.

Fidan, P., Wendt, S., \& Eldaba, A. (2020, July). Empowering Students Through Multicultural Picture Books in Content Area. Professional Development Session presentation, TN NAME Virtual conference. Cookeville, TN.

Wendt, S. \& Fidan, P. (2020, July.) Engaging Students with the NGSS Phenomena Page for Grades 3-8. Virtual Session presented for the Digital Science Teaching Training summer conference workshop: Tennessee Science Teachers Association (TSTA).

Professional Development Instructor (2018, June). Digging deep into science literacy math science partnership.
Professional Development Instructor (2017, July). Digging deep into science literacy math science partnership.
Professional Development Instructor (2017, June). One-week workshop for the Improving Teacher Quality Grant Librarians and Makerspaces: Enhancing Learning and Literacy Across Content Areas.

Professional Development Instructor (2016, June). Digging deep into science literacy math science partnership.
Professional Development Instructor (2016, April). Digging deep into science literacy math science partnership.
Professional Development Instructor (2015, June). Two-week workshop for the Upper Cumberland 5-8 SciMath Math Science Partnership. PI: Putnam County Schools. \$946,565 (Funded)

Wendt, S. \& Allen, M. (2014, June). STEM Team: One-week Professional Development Workshop for grades K-5 Middle Tennessee teacher participants in the Putnam County Math \& Science Partnership Grant. STEM Center, Tennessee Tech University.

Wendt, S., Allen, M., \& Pardue, S. (2014, May). STEM Team: Professional Development Workshop for K-5 Middle Tennessee teacher participants in the Putnam County Math \& Science Partnership Grant. STEM Center, Tennessee Tech University.

Wendt, S. \& Rogers, A. (2014, Feb). Picture Perfect Science Workshop: Mystery Pellets. Workshop for Middle Tennessee teacher participants in the Stem Around Us grant. STEM Center, Tennessee Tech University.

Wendt, S. \& Ramey, K. (2012, June). Hands-on Activities for Implementing the Common Core into the 3-8 Science Classroom. Full day professional development in-service for Bledsoe County Schools, Pikeville Middle School, Pikeville, TN.

Roberson, J., Wendt, S., Shinde, G., Stevens, B., \& Nash, K. (2012, June). Learning Math Through Science: An Upper Cumberland Common Core Initiative. One week professional development workshop for K-6 teachers from the Upper Cumberland, Volunteer State Community College, Livingston, TN.

Wendt, S., Brooks, T., \& Smith, S. (2008, June). Implementing ActivBoards in the Elementary Classroom. Professional development in-service for Putnam County Schools, Capshaw Elementary School, Cookeville, TN.

Wendt, S., \& Hale, M. (2007, June). Creating Rubrics for the Classroom. Professional development in-service for Putnam County Schools, Cookeville High School, Cookeville, TN.

Wendt, S. (2006, December). Incorporating Keynote into Best Practices for the Classroom. Presenter for Capshaw Elementary School.

## University Service/Public Outreach

## University Committees

Faculty Member Representative: University Student Organization 606 funding committee. (2021-2025). Meets biweekly.

Counselor: Eta Nu Chapter of Kappa Delta Pi Honor Society. (2021-2024)
Faculty Advisor for the Future Elementary Teachers Math and Science Club. (2012-present)
Member of the Literacy Association of Tennessee Diversity Committee. Tennessee Technological University. (2019-present)

Member: University Admissions and Credits committee (2020-2023)
Member: Subcommittee of the University Admissions and Credits committee: Review Policy 1201 Readmission After Academic Suspension (2020-2021)

Member: Subcommittee of the University Admissions and Credits committee: Holistic Admissions Committee (2020-2021) Meets bi-weekly

Chair: University Faculty Research Committee. (2015-2016).
University Faculty Research Committee. (2014-2017).

## College of Education Committees

Member of the College of Education Assessment Team. (2015-2020)
Program Impact Committee for the CAEP Report Development Team (2016-2017)
Chairperson of the College of Education Assessment Team. (2012-2014)

## Public Outreach \& Service

Future Elementary Teachers Math \& Science Club: Participated in the Mix and Mingle Welcome Event. (2023, August).

Interviewee: Podcast Episode highlighting research interests conducted by Dr. Brenda Wilson \& Dr. Russ Witcher. (2023, July).

2+2 Interviewer: Office of Teacher Education. (2023, May).
TTU Representative for the Freedom School Table at the Festival of Movement (2023, April).

Future Elementary Teachers Math/Science Club Faculty Adviser. Took four students to the TSTA Conference in Murfreesboro, TN. (2022, Nov.)

Future Elementary Teachers Math/Science Club Faculty Adviser. Took four students to the NSTA Conference in Atlanta, GA. Students served on Student Panel for session. (2022, Nov.)

Event Coordinator for the 2023 Science Olympiad. Tennessee Tech University: Millard Oakley STEM Center. February 11, 2023.

Interview: Feedback on the impact of HQIM training on preservice teacher preparation. Deans for Impact. (Feb. 10, 2022).

NSTA Professional Learning Committee. Sense-making Team for the reviewers of Science and Children. (2022).
College of Education Director at Prescott South Elementary STEM School. Supervising TTU students in their creation and management of stations for CSI Night: Communication Theme. (2021, Nov.)

Judge for the Regional Science Fair. (March, 2021). Memorial Gym, Tennessee Tech University. (Canceled due to COVID-19).

Board of Directors for the Tennessee Science Teachers Association (2021-2024). District 5, Middle Tennessee.
College of Education Director at Prescott South Elementary STEM School. Supervising TTU students in their creation and management of stations for CSI Night: Flight Theme. (2019, Nov.)

Judge for the Regional Science Fair. (April, 2019). Memorial Gym, Tennessee Tech University.
Liaison to the College of Engineering to coordinate and secure volunteers from the College of Education for Engineering a Future. (2012-2019)

Interviewer for the Office of Teacher Education. (May, 2018)
Biomedical Engineering: Creating Prosthetics for Toys with 3-D Pens. Five-week unit with $4^{\text {th }}$ grade students in the STEM Classroom at Prescott South Elementary School with Kattie Nash. (May, 2018).

Science \& Literacy Enrichment Group: Nine-week project piloting the Fuddlebrook School Science Series with $2^{\text {nd }}$ graders at Prescott South Elementary School. (May, 2018).

STEM Fab Friday Worker and Assistant Supervisor -Star Wars Theme. (2018, April).
TTU ELED Representative for the THEC Tennessee Transfer Pathway Meeting (March 2018).
Reviewer for the Tennessee Transfer Pathways in Education. Tennessee Board of Regents Office, Nashville, TN. (2018, March).

STEM Fab Friday Worker and Assistant Supervisor-Star Wars Theme. (2018, February).
University Representative: Putnam County Schools School Improvement Plan for the 2017-2018 School Year
College of Education Director at Prescott South Elementary STEM School. Supervising TTU students in their creation and management of stations for CSI Night. (2017, Nov.)

College of Education Director at Prescott South Elementary STEM School. Supervising TTU student volunteers for the $1^{\text {st }}$ STEM Circus. (2017, April.)

College of Education Director at Prescott South Elementary STEM School. Supervising TTU student volunteers for CSI Night. (2016, Nov.)

College of Education Supervisor at Prescott South Elementary STEM School. Supervising TTU student volunteers for Lego Literacy Night. (2016, Sept.)

Assistant Director/Coordinator: Tennessee Technological University Upper Cumberland Middle School Math Contest. (April, 2016)

Liaison for the College of Education \& Prescott South Elementary STEM School's $4^{\text {th }}$ annual K.I.T.E. Festival. Supervised TTU student volunteers in the creation of forces \& motion superhero stations. (2016, April)

TSTA Booth Membership Drive (2016, March). National Science Teachers Association National Conference in Nashville, TN.

Board of Directors for the Tennessee Science Teachers Association (2012-2016). District 5, Middle Tennessee.
Scientific Review Committee for Cumberland Plateau Regional Science and Engineering Fair. (2015-2016).
College of Education Director at Prescott South Elementary STEM School. Supervised TTU student volunteers for CSI Night. (2015, Oct.)

Director/Coordinator: Squishy Circuits with Independence Program Students. Co-taught with volunteers from The Future Elementary Teachers Math \& Science Club. (April, 2015).

Director/Coordinator: Float Your Boat! An Engineering Design Challenge for grades 3-4 at Prescott South Elementary STEM Platform School. The Future Elementary Teachers Math \& Science Club. (October, 2014).

Stakeholder Reviewer for the State Board of Education Standards Steering Committee: K-12 Science Standards. (August, 2014).

Director/Coordinator: Tennessee Technological University Upper Cumberland Middle School Math Contest. (2011-2015)

Program Co-Chair for the Tennessee Science Teachers Association State Conference. (2013-2016).

Proctor for Comprehensive Exams. (2014, Spring).
TSTA Board of Directors. (2012-2016). Board member for District 5, Middle Tennessee.
Judge for the Regional Science Fair. (March, 2013-2016). STEM Center, Tennessee Tech University.
Director/Coordinator: Elementary Engineers Week at Prescott South Elementary STEM Platform School. Funded through a QEP grant. (February, 2014).

Stonecom Media Radio Interview. The Common Core. (2013, November).
College of Education Representative at Prescott South Elementary STEM School. Energy Station for CSI Night. (2013, Oct.)

Member of the Tennessee Science Teachers Association ad hoc committee: Building a Capacity for Tennessee Science Education. (2013-2014)

## Professional Development Attended

NIET Aspiring Teacher Rubric Evaluator Training. (April 19-21, 2023). Tennessee Tech University.
Sessions at the IUSE Summit: Propelling Change: Moving from Strategy Toward Effective \& Equitable Undergraduate STEM Education. Washington, D.C. (2022, June).

Sessions at the National Science Teaching Association (NSTA) National Conference: Houston, Texas (April, 2022).

Tennessee Science Teachers Association State Conference. (2021, November). Murfreesboro, TN.
Teacher Toolbox Series: Tools for Teaching STEM in Remote Learning. Kappa Delta Pi Webinar. (February 23, 2021).

Thoughtful Books with Julie Stepp. (February 15, 2021).
Dimensions of Success (DoS) Observer Training for national STEM observer certification. National Science Foundation and PEAR Institute. The training process involved a two-day live webinar training, completion of video calibration exercises, a one-hour live calibration session, and successful completion of two practice observations in the field. (December, 2020-February, 2021).

Literacy Association of Tennessee's Annual Virtual Conference. (2020, December).
Tennessee Science Teachers Association (Virtual) State Conference. (2020, November).
Digital Science Teaching Training summer conference workshop: Tennessee Science Teachers Association (TSTA). (2020, July.)

The Online Learning Community (OLC) Innovate: Education Reimagined 2020 Virtual Conference. A two-week online workshop (June, 2020).

Camp QEP: Two-day workshop. (May, 2019).

TNSELA annual meeting (Nov. 2019). Conference and Professional Development Institute. Murfreesboro, TN.
TSTA Conference and Professional Development Institute. Murfreesboro, TN. (Nov. 2019).
Sessions at the National Science Teachers Association (NSTA) National Conference: St. Louis, MO. (April, 2019).

Sessions at the International Meeting of the Association for Science Teacher Education in Baltimore, MD. (Jan., 2019).

Sessions at the Mid-Atlantic Association for Science Teacher Education Annual Conference in Harrisonburg, VA. (Sept. 2018).

Sessions at the TSTA Conference and Professional Development Institute. Murfreesboro, TN. (Nov. 2018).
Sessions at the Tennessee STEM Innovation Summit. (May, 2018).
Sessions at the National Science Teachers Association (NSTA) National Conference: Atlanta, GA. (March, 2018).
Tennessee Academic Standards for Science District Training. (2017, December). Tennessee Department of Education. Leslie Town Center in Cookeville, TN.

Tennessee Science Standards Implementation: Examining the 2018-2019 Adopted Tennessee Academic Standards for Science. (November, 2017). Tennessee Science Teachers Association state conference. Murfreesboro, TN.

Camp QEP: Three-day workshop. (May, 2017).
Picture Perfect Science Workshop at the National Science Teachers Association (NSTA) National Conference, Nashville, TN. (2016).

Sessions at the National Science Teachers Association (NSTA) Area Conference, Reno, NV. (2015).
Sessions at the 7th International 2015 Science in Society Conference, Chicago, IL.
Sessions at the International Congress of Qualitative Inquiry, University of Illinois at Urbana-Champaign. (2015, May)

Sessions at the Tennessee Science Teachers Association Annual State Conference. (2012-2014).
Science Teaching, Teachers and ICT in the Finnish Schools Workshop. (2014, June). University of Tampere, Finland.

World Conference on Education Media \& Technology: EdMedia. (2014, June). University of Tampere and Tampere University of Applied Sciences, Tampere Finland.

SciGirls Educator Training. (2014, Feb). The University of Tennessee Institute of Agriculture, Knoxville, TN. Strategies for Grant Writing. Office of Research Faculty Workshop. (2013, Oct).

Engineering is Elementary Teacher Educator Institute. (2013, Oct). Harpeth Hall School, Nashville, TN.

TN Common Core Training for Math. (2012, July). Upper Cumberland, Stone Memorial High School training.
Tennessee Science Teachers Association (TSTA). (2011, November). STEM TREK: Journey to the Next Generation Science Standards Conference.

Association for Supervision and Curriculum Development (ASCD). (2010, April). Getting serious about school reform: Dr. Robert Marzano. Tucson, Arizona.

Tennessee Education Technology Conference. (2008, December). Nashville, TN.

## Professional Affiliations

- Counselor: Eta Nu Chapter KDP. Tennessee Tech University. (2021-2024)
- Member LAT (Literacy Association of TN) Diversity Committee (2019-Present)
- Member Upper Cumberland Literacy Association of Tennessee (2019-Present)
- Member TN-NAME (National Association for Multicultural Education (2018-2020)
- Member of Association for Science Teacher Education (2017-2021)
- Member of National Science Teachers Association (2011-Present)
- Member of Tennessee Science Teachers Association (2011-Present)
- Member Tennessee Science Education Leadership Association (TNSELA) (2012-Present)
- Member TTU Chapter of the International Literacy Association (2019-Present)
- Member of the National Association for Multicultural Education (2018-2019)
- Member of Association for the Advancement of Educational Research (2017-2018)
- Member of International Literacy Association (2017-2019)
- Member TTU Chapter of the Tennessee Reading Association (2016-2017)
- Member Board of Directors for the Tennessee Science Teachers' Association (2012-2016)
- Program Co-Chair for the annual Tennessee Science Teachers' Association State Conference (2013-2016)
- Member of the National Council for Teachers of Mathematics (2011-2014)
- Member of Tennessee Mathematics Teachers' Association (2012-2013)
- Member of Phi Kappa Phi Graduate Student Honor Society (2011-2012)
- Member Phi Delta Kappa International (2012-2013)
- Pi Lambda Theta Graduate Student Honor Society (2000)


## Public School Leadership

- Mentoring Professional Learning Community; Prescott South Elementary School (2010-2011)
- School Improvement Plan; Prescott South Elementary (2010-2011)
- School Wide Positive Behavior Committee; Prescott South Elementary School (2010-2011)
- Technology Grade Level Chairperson; Capshaw Elementary School (2008-2009)
- School Improvement Plan; Capshaw Elementary (2008-2009)
- Multicultural Committee; Capshaw Elementary (2008-2009)
- Earth Day Project Leader; Capshaw Elementary (2008-2009)
- Grade Level Chairperson; Capshaw Elementary (2006-2007)
- School Improvement Plan; Capshaw Elementary (2006-2007)
- Habitat for Humanity Tool Drive; Capshaw Elementary (2006)
- Hospitality Committee; Capshaw Elementary (2005-2007)
- Harcourt Math Textbook Pilot; Capshaw Elementary (2005-2006)
- Accelerated Reader Committee; Capshaw Elementary (2004-2005)
- Curriculum Vertical Alignment Team; Capshaw Elementary (2004-2005)

