Kathy Cabe Trundle

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Education

1999	Ph.D.	University of Tennessee, Education, Science
1995	M.S.	University of Tennessee, Education, Curriculum and Instruction
1983	B.S.	University of Tennessee, Biology and Education

Academic Appointments

2018-Present	**Utah State University** Professor Department Head	Logan, UT
2014-2018	**North Carolina State University** Professor and Department Head	Raleigh, NC
2002-2013	**The Ohio State University** Professor Associate Professor Assistant Professor	Columbus, OH
2001-2002	**Ohio Resource Center, Ohio State** Science Content Specialist	Columbus, OH
2000-2001	**University of Alabama** Assistant Professor	Tuscaloosa, AL
1999-2000	**Kentucky Department of Education** State Science Consultant	Frankfort, KY
1996-1999	**University of Kentucky** Instructor	Lexington, KY
1998	**Kentucky Department of Education** Intern	Frankfort, KY
1994-1996	**University of Tennessee** Program Assistant Adjunct Faculty Member	Knoxville, TN
1984-1994	**Knox County/City Schools** Teacher	Knoxville, TN

Courses Taught

EDUC 6770 Qualitative Research Methods

EDUC 7670 Education Literature Reviews

ELED 2480/4480 Early Childhood Education: K-Grade 3

TEAL 6020/7020 Foundation and Change in Early Childhood

TEAL 7711 Contemporary Perspectives: K-12 Science Education

EDU T&L 729 Teaching and Learning of Science in Grades Pre K-3, Part I

EDU T&L 743 Teaching and Learning of Science in Grades Pre K-3, Part II

EDU T&L 811 Science in Elementary Education

EDU T&L 852 Science and Early Childhood Education

EDU T&L 920 Advanced Concepts in Elementary School Science Education

EDU T&L 925A10 Capstone Seminar Elementary Education

EDU T&L 964.23 Current Trends and Issues in STEM Education

EDU T&L 973 Doctoral Proseminar: Integrated Teaching and Learning

EDU T&L 975 Multiple Perspectives on Teaching, Learning, and Growth

Earth Sciences 580 Standards-based Earth Science for Educators

CEE 515 Science in the Elementary School (University of Alabama)

CSE/CEE 690: Advanced Seminar in Science Education (University of Alabama)

Doctoral Advisees

Adadan, Emine, 2006, Promoting high school students' conceptual understandings of the particulate nature of matter through multiple representations

Hilson, Margilee P., 2008, K-12 Classroom action research as embedded professional development to improve student achievement in science

Hobson, Sally, 2008, Young elementary students' conceptual understandings of lunar phases before and after an inquiry-based and technology-enhanced instructional intervention

Inan, Hatice Zeynep, 2007, (Co-Advisor with Rebecca Kantor) An interpretivist approach to understanding how natural sciences are represented in a Reggio Emilia-inspired preschool classroom

Saçkes, Mesut, 2010, The role of cognitive, metacognitive, and motivational variables in conceptual change: Preservice early childhood teachers' conceptual understanding of the cause of lunar phases

Sanchez, Erin, 2005, Scientific discourse in early childhood: Reading aloud and responding to nonfiction in a kindergarten community of learners

Uçar, Sedat, 2007, Using inquiry-based instruction with web-based data archives to facilitate conceptual change among preservice teachers

Wild, Tiffany, 2008, Students' with visual impairments conceptions of causes of seasonal change

Yürük, Nejla, 2005, An analysis of the nature of students' metaconceptual processes and the effectiveness of metaconceptual teaching practices on students' conceptual understanding of force and motion

Grants

Total overall funding $26,537,300

Current ($23,773,812 total)

Co-Investigator, *Using Smart Foodscapes for the Enhancement of Sustainability in Western Rangelands*, USDA-Agricultural and Food Research Initiative (ARFI) ($6.8M, 2021-2026).

Principal Investigator, *Utah State University STARS! GEAR UP Partnership*, U.S. Department of Education ($16,871,200, 2018-2025).

Co-Investigator, *Cross-Cultural Study: Comparison of Pre-service Teachers' Beliefs Regarding Community Engagement and Orientation Toward Climate Change in Indonesia, United States, and Turkey*, Indonesian Ministry of Education, Culture, Research, and Technology ($12,237, 2021-2025).

Co-Investigator, *Comparison of Preservice Teachers' Attitudes about Climate Change*, Indonesian Ministry of Education, Culture, Research, and Technology ($10,489, 2021-2025).

Co-Investigator, *Using Smart Foodscapes to Transform Cowherd Nutrition on Western Rangelands*, Utah Agricultural Experiment Station Seed Grant Program ($79,886, 2021-2023).

Funded and Complete ($2,763,488 total)

Principal Investigator, *Reaching for the Moon: Technology for At-Risk Preschool Children*, Battelle Endowment for Technology and Human Affairs ($49,675).

Principal Investigator, *OSU Science Endorsement Institute for Improving Teacher Quality*, Ohio Board of Regents Improving Teacher Quality Professional Development Program ($103,995).

Principal Investigator, *Pre-K Mathematics and Science for At-Risk Children: Outcomes-Focused Curricula and Support for Teaching Quality*, Institute of Education Sciences Grant ($1.77 M).

Principal Investigator, *OSU Earth and Space Science Institute for Improving Instructional Practice*, Ohio Board of Regents Improving Teacher Quality Professional Development Program ($82,500).

Principal Investigator, *OSU Early Childhood Science and Mathematics Institute for Improving Instructional Practice*, Ohio Board of Regents Improving Teacher Quality Professional Development Program ($93,132).

Co-Investigator, *Effective Collaboration to Enrich STEM Programs in Rural Ohio,* Ohio Board of Regents ($182,463).

Co-Investigator**,** *Reading the Code: Genetic Literacy Across the Middle School Curriculum,* Battelle Endowment for Technology and Human Affairs ($59,292).

Co-Investigator, *The Ohio State University Science and Mathematics Summer Institutes for Instructional Change: Geology Institute*, Ohio Board of Regents Improving Teacher Quality Professional Development Program ($391,431).

Co-Investigator, *Earth Space Science-NOVA Online Project Grant*, NASA ($31,000).

Scholarship

Peer-reviewed Journal Articles

National/International (*Doctoral advisee/student)

Trundle, K. & Hagevik, R. (2022, in review). School garden-based science learning research (1990-2019): A Systematic review. *Research in Science Education.* (Impact Factor: 5.439, 4.021 5-year; Q1)

Saçkes, M. & **Trundle**, K. C. (2022, revised and resubmitted). Does Inclusion of Science in Preschool Curricula Matter? *Educational Researcher*. (Impact Factor: 4.854, 7.217 5-year; Q1)

Saçkes, M., **Trundle**, K. C., & Shaheen, M. (2022, revised and resubmitted). Parental motivational beliefs and science learning opportunities in the early years. *Early Childhood Research Quarterly*. (Impact Factor**:** 2.316; Q1)

*Wheeler, L., Hagevik, R., & **Trundle**, K.C. (in review). BEE ambassadors for pollen. *Science Scope*.

Trundle, K., Hagevik, R., *Wheeler, L., Vela, K. N., *Parslow, M., & Joy, D. (2022, in press). The 3-H social and emotional learning cycle and the three sisters garden. *Science Activities*. https://doi.org/10.1080/00368121.2022.2147892

*Wheeler, L., Hagevik, R., & **Trundle**, K.C. (2022, in press). The birds and the bees, the flowers and the trees. *Science Scope*.

Vela, K. N., *Parslow, M., Hagevik, R. & **Trundle**, K. (2022). Give plants an inch and they'll take a yard. *Mathematics Teacher: Learning and Teaching PK-12, 115* (10), 722-729.

Saçkes, M., **Trundle**, K. C., & Shaheen, M. (2020). The effect of balanced learning curriculum on young children's learning of science. *Early Childhood Education Journal, 16* (2), 357-369. (Impact factor 1.135; Q2)

Saçkes, M., **Trundle**, K. C., & Shaheen, M. (2019). Profiling parental orientation to early childhood curriculum. *European Early Childhood Education Research Journal, 27* (5), 662-674. (Impact Factor 1.075; Q2)

*Green, K., **Trundle**, K. C., & Shaheen, M. (2018). Integrating the arts into science teaching and learning: A literature review. *Journal for Learning through the Arts, 14* (1). http://dx.doi.org/10.21977/D914140829

Trundle, K. C. (March/April 2018). Not all play is created equal. *Exchange*, 60-62.

*Saçkes, M. & Trundle, K. C. (2017). Change or durability? The contribution of metaconceptual awareness in preservice early childhood teachers' learning of science concepts. *Research in Science Education*, 47, 655-671. (Impact factor 2.248; Q1)

*Saçkes, M., & **Trundle**, K. C. (2017). Preservice early childhood teachers' use of graphs as mental tools in internalizing scientific concepts. *Electronic Journal of Science and Mathematics Education, 11* (1), 364-380.

Trundle, K. C. & *Smith, M.M. (2017). A hearts-on, hands-on, minds-on model for preschool science learning. *Young Children, 72* (1), 80-86. (H Index 22)

*Saçkes, M., *Smith, M. M., & **Trundle**, K. C. (2016). U.S. and Turkish preschoolers' observational knowledge of astronomy. *International Journal of Science Education, 38* (1), 116-129. (Impact Factor 1.485; Q1)

*Miller, H. L., *Smith, M. M., & **Trundle**, K. C. (2014). What's the weather like today? Kindergarten students explore wind through strategies designed to reach students of all abilities. *Science and Children, 51* (5), 50-54.

*Saçkes, M., & **Trundle**, K. C. (2014). Preservice early childhood teachers' learning of science in a methods course: Examining the predictive ability of an intentional learning model. *Journal of Science Teacher Education, 25* (4), 413-444. (Q1)

*Smith, M.M & **Trundle**, K. C. (2014). Shrieks and shrills: Investigating sound in preschool. *Science and Children, 52* (4), 38-43.

*Saçkes, M., **Trundle**, K. C., & Bell, R. L. (2013). Science learning experiences in kindergarten and children's growth in science performance in elementary grades. *Education and Science*, *38* (167), 114-127.

Trundle, K. C., *Miller, H. L., & Krissek, L. A. (2013). Digging into rocks with young children. *Science and Children, 50* (8), 47-51.

Trundle, K. C., *Mollohan, K. N. & *Smith, M.M. (2013). Plants, alike and different: Laying the foundation to help preschoolers understand inheritance of traits. *Science and Children, 50* (6), 52-57.

*Saçkes, M., Akman, B., & **Trundle**, K. C. (2012). Okulöncesi öğretmenlerine yönelik fen eğitimi dersi: Lisans düzeyindeki öğretmen eğitimi için bir model önerisi (A science methods course for early childhood teachers: A model for undergraduate pre-service teacher education). *Necatibey Eğitim Fakültesi Elektronik Fen ve Matematik Eğitimi Dergisi, 6* (2), 1-26.

*Saçkes, M., Flevares, L., Gonya, J., & **Trundle**, K. C. (2012). Preservice early childhood teachers' sense of efficacy for integrating mathematics and science: Impact of a methods course. *Journal of Early Childhood Teacher Education, 33* (4), 349-364. (Q2)

*Saçkes, M., **Trundle**, K. C., Krissek, L., & Tuckman, B. (2012). Development of the efficacy beliefs for conceptual change learning questionnaire. *Journal of Experimental Education*, 80(4), 338-351. (Impact factor 2.107; Q1)

Trundle, K. C. & *Hilson, M. P. (2012). Shadow play: Linking shadows to learning about seasons. *Science and Children, 49* (5), 31-35.

*Saçkes, M., **Trundle**, K. C., & Bell, R. L. (2011). Young children's computer skills development from kindergarten to third grade. *Computers and Education, 57* (2), 1698-1704. (Impact factor 5.296; Q1)

*Saçkes, M., **Trundle**, K. C., Bell, R. L. & O'Connell, A. A. (2011). The influence of early science experience in kindergarten on children's immediate and later science achievement: Evidence from the Early Childhood Longitudinal Study. *Journal of Research in Science Teaching, 48* (2), 217-235. (Impact factor 3.87; Q1)

*Saçkes, M., **Trundle**, K. C., & Krissek, L. A. (2011). The impact of a summer institute on inservice early childhood teachers' knowledge of earth and space science concepts. *Science Educator, 20* (1), 23-33.

Trundle, K. C. & *Hobson, S. M. (2011). Reaching for the moon: Using technology to teach young children space science concepts. *Science and Children, 49* (4), 51-55.

Trundle, K. C. & *Smith, M. M. (2011). Let it roll! Exploring motion with young children. *Science and Children, 49* (2), 38-41.

*Uçar, S. & **Trundle**, K. C. (2011). Conducting guided inquiry in science classes using authentic, archived, web-based data. *Computers and Education, 57* (2), 1571-1582*.* (Impact factor 5.296; Q1)

*Uçar, S., **Trundle**, K. C., & Krissek, L. A. (2011). Inquiry-based instruction with archived, online data: An intervention study with preservice teachers. *Research in Science Education,41* (2), 261-282 *.* (Impact factor 2.248; Q1)

*Adadan, E., **Trundle**, K. C., & Irving, K. (2010). Exploring grade 11 students' conceptual pathways of the particulate nature of matter in the context of multirepresentational instruction. *Journal of Research in Science Teaching, 47*(8), 1004-1035. (Impact factor 3.87; Q1)

*Hobson, S. M., **Trundle**, K. C., & *Saçkes, M. (2010). Using a planetarium software program to promote conceptual change with young children. *Journal of Science Education and Technology, 19* (2), 165-176. (Impact factor 2.218; Q1)

*Inan, H. Z., **Trundle**, K. C., & Kantor, R. (2010). Understanding natural sciences education in a Reggio Emilia-inspired preschool in America. *Journal of Research in Science Teaching, 47* (10), 1186-1208. (Impact factor 3.87; Q1)

*Saçkes, M., Flevares, L., & **Trundle**, K. C. (2010). Four- to six-year old children's conceptions of the mechanism of rainfall. *Early Childhood Research Quarterly, 25* (4), 536-546. (Impact factor 2.316; Q1)

Trundle, K. C., Atwood, R. K., Christopher, J. E., & *Saçkes, M. (2010). The effect of guided inquiry-based instruction on middle school students' understanding of lunar concepts. *Research in Science Education, 40* (3), 451-478*.* (Impact factor 2.248; Q1)

Trundle, K.C. & Bell, R.L. (2010). The use of a computer simulation to promote conceptual change: A quasi-experimental study. *Computers and Education, 54*(4), 1078-1088. (Impact factor 5.296; Q1)

Trundle, K. C., & * Saçkes, M. (2010). Look! It is going to rain: Using books and observations to promote young children's understanding of clouds. *Science and Children, 47* (8)*,* 29-31.

*Wild, T. & **Trundle**, K. C. (2010a). Conceptual understandings of middle school students' with visual impairments concerning seasonal change. *Journal of Visual Impairment and Blindness, 104* (2), 107-118. (Impact factor 0.485; Q3)

*Wild, T. & **Trundle**, K. C. (2010b). Talking turkey: Teaching about America's greatest conservation story with children with visual impairments. *Journal of Visual Impairment and Blindness, 104* (4), 198-201*.* (Impact factor 0.485; Q3)

*Adadan, E., Irving, K. & **Trundle**, K. C. (2009). Impacts of multi-representational instruction on high school students' conceptual understandings of the particulate nature of matter. *International Journal of Science Education, 31* (13), 1743-1775. (Impact Factor 1.485; Q1)

*Saçkes, M., **Trundle**, K. C., & Flevares, L. (2009a). Using children's books to teach inquiry skills. *Young Children, 64* (6), 24-26. (H Index 22)

*Saçkes, M., **Trundle**, K. C., & Flevares, L. (2009b). Using children's literature to teach standard-based science concepts in early years. *Early Childhood Education Journal, 36* (5), 415-422. (Impact factor 1.135; Q2)

Bell, R. L. & **Trundle**, K. C. (2008). The use of a computer simulation to promote scientific conceptions of moon phases. *Journal of Research in Science Teaching, 45* (3), 346-372. (Impact factor 3.87; Q1)

Trundle, K. C. & *Saçkes, M. (2008). Sky observations by the book: Lessons for teaching young children astronomy concepts with picture books. *Science and Children, 46* (1), 36-39.

Trundle, K. C., Troland, T. H., & Pritchard, T. G. (2008). Representations of the moon in children's literature: An analysis of written and visual text. *Journal of Elementary Science Education, 20* (1), 17-28.

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2007a). A longitudinal study of conceptual change: Preservice elementary teachers' conceptions of moon phases. *Journal of Research in Science Teaching, 44* (2), 303-326. (Impact factor 3.87; Q1)

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2007b). Fourth grade elementary students' conceptions of standards-based lunar concepts. *International Journal of Science Education, 29* (5), 595-616. (Impact Factor 1.485; Q1)

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2006). Preservice elementary teachers' knowledge of observable moon phases and pattern of change in phases. *Journal of Science Teacher Education*, *17* (2), 87-101. (H Index 40, Q1)

Trundle, K. C., Willmore, S., & Smith, W. S. (2006). The MOON Project. *Science and Children*, *43* (6), 52-55.

Trundle, K. C. & Troland, T. H. (2005). The moon in children's literature. *Science and Children*, *43* (2) 40-43.

Smith, W.S., **Trundle**, K. C., & *Lee, L. (2004). Using internet technology to address national science and teacher standards. *Teacher Educator, 39* (2), 144-156. (Impact factor 0.67; Q2)

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2002). Preservice elementary teachers' conceptions of moon phases before and after instruction. *Journal of Research in Science Teaching, 39* (7), 633-658. (Impact factor 3.87; Q1)

Peer-reviewed Journal Article

State

Trundle, K. C. (2007). Look for the moon, reach for the stars with an inquiry-based, authentic writing project! *The Hoosier Science Teacher, 32* (4), 134-142.

Editor-reviewed Articles

Trundle, K. C. & Saçkes, M. (2021). Teaching and learning science during the early years. *Journal of Childhood, Education & Society, 2* (2), 217-219.

Trundle, K. C. (2017). *Teaching science during the early childhood years*, 2nd Edition. Evanston, IL: National Geographic School Publishing.

Trundle, K. C. (2009). *Teaching science during the early childhood years*. Evanston, IL: National Geographic School Publishing.

Trundle, K. C. (2006). Early childhood building blocks: Exploring earth and space science concepts. Columbus, OH: Ohio Resource Center. Retrieved July 19, 2006: http://ohiorc.org/ORC_Documents/ORC/rec/briefs/0607.pdf

Trundle, K.C. & Bell, R.L. (2003). Using planetarium software to teach standards-based lunar concepts. *School Science and Mathematics*, *103* (8), 397-401.

Trundle, K. C. (2003, August). Scientific inquiry. Columbus, OH: Ohio Resource Center. Retrieved September 30, 2003: http://www.ohiorc.org/features/spotlight/1,4196,0308_science,00.shtm

Trundle, K. C. (2003, June). Spotlight on Ohio's science standards. Columbus, OH: Ohio Resource Center. Retrieved August 09, 2003: http://www.ohiorc.org/features/spotlight/1,4196,0206_science,00.shtm

Trundle, K. C. (2003, June). Spotlight on Westerville City. Columbus, OH: Ohio Resource Center. Retrieved August 22, 2003: http://www.ohiorc.org/features/spotlight/1,4196,0206_westerville,00.shtm

Books

Trundle, K. C. & Saçkes, M. (Eds.) (2015). *Research in Early Childhood Science Education.* New York: Springer.

Chapters in Edited Books

Siry, C., **Trundle**, K. C., & Saçkes, M., (in press). Science education during the early childhood years: Research themes and future directions. In Lederman, N., Zeidler, D., & Lederman, J. (Eds.). *Volume III Handbook of Research on Science Education*. (pp. ***-***). New York: Routledge.

Saçkes, M., **Trundle**, K. C., & *Smith, M. M. (2015). Development of scientific concepts during childhood. In Wright, J. D. (Ed.). *International Encyclopedia of Social and Behavioral Sciences, 2nd Edition.* (pp. 275-280). Oxford: Elsevier.

Trundle, K. C. (2015). The inclusion of science in early childhood classrooms. In Trundle, K. C. & Saçkes, M. (Eds.). *Research in Early Childhood Science Education.* (pp. 1-6) New York: Springer.

Trundle, K. C. (2014). Journeys beyond the ivory tower: Building bridges between academia and K-12 classrooms. In Dias, M. & Eick, C. (Eds.). *Science Teacher Educators as K-12 Teachers: Practicing What We Teach.* (pp. 3-5) New York: Springer.

Trundle, K. C. (2014). Teaching young children science. In Yasar, M., Ozgun, O., & Galbraith, J. *Contemporary Perspectives and Research on Early Childhood Education*. (126-134). Newcastle upon Tyne: Cambridge Scholars Publishing.

Trundle, K. C. & *Saçkes, M. (2013). A comprehensive literature review on students' conceptual understandings enhanced through technology instruction. In Finson, K. & Peterson, J. (Eds.). *Visual Data and Their Use in Science Education.* Charlotte: Information Age Publishing.

Trundle, K. C. & *Saçkes, M. (2012). Science and early education. In Pianta, R. (Ed.). *Handbook of Early Childhood Education.* (pp. 240-258). New York: Guilford Publications.

Trundle, K. C. (2008). Inquiry based instruction for students with disabilities. In Luft, J., Bell, R. L., & Gess-Newsome, J. (Eds.). *Science as inquiry in the secondary setting*. (pp. 79-85). Washington, D.C.: National Science Teachers Association.

Trundle, K. C. (2007). Acquiring online data for scientific analysis. In Bell, R. L., Gess-Newsome, J., & Luft, J. (Eds.). *Technology in the secondary science classroom* (pp. 53-61). Washington, D.C.: National Science Teachers Association.

Trundle, K. & Krissek, L. (2005). Discovering tidal patterns. In Bell, R. L. & Garofalo, J. (Eds.). *Technology-integrated science units for grades 9-12.* (pp. 159-174). Eugene, OR: International Society for Technology in Education.

Electronic Textbooks

National Geographic Exploring Science Program
Authors listed alphabetically

Note: Each citation also has a Spanish Edition with its own ISBN that is not listed

Bell, R., Butler, M., **Cabe Trundle**, K., Cervetti, G., Duke, N., Lederman, J., & Molebash, P. (2020). *National Geographic Exploring Science (California) Kindergarten: MindTap*. Boston: National Geographic Learning/Cengage Learning.

Bell, R., Butler, M., **Cabe Trundle**, K., Cervetti, G., Duke, N., Lederman, J., & Molebash, P. (2020). *National Geographic Exploring Science (California) Grade 1: MindTap*. Boston: National Geographic Learning/Cengage Learning.

Bell, Randy., Butler, Malcolm., **Cabe Trundle**, K., Cervetti, Gina., Duke, Nell., Lederman, Judith., & Molebash, Philip. (2020). *National Geographic Exploring Science (California) Grade 2: MindTap*. Boston: National Geographic Learning/Cengage Learning.

Bell, R., Butler, M., **Cabe Trundle**, K., Cervetti, G., Duke, N., Lederman, J., & Molebash, P. (2020). *National Geographic Exploring Science (California) Grade 3: MindTap*. Boston: National Geographic Learning/Cengage Learning.

Bell, R., Butler, M., **Cabe Trundle**, K., Cervetti, G., Duke, N., Lederman, J., & Molebash, P. (2020). *National Geographic Exploring Science (California) Grade 4: MindTap*. Boston: National Geographic Learning/Cengage Learning.

Bell, R., Butler, M., **Cabe Trundle**, K., Cervetti, G., Duke, N., Lederman, J., & Molebash, P. (2020). *National Geographic Exploring Science (California) Grade 5*: *MindTap*. Boston: National Geographic Learning/Cengage Learning.

Bell, R., Butler, M., **Cabe Trundle**, K., Cervetti, G., Duke, N., Lederman, J., & Molebash, P. (2020). *National Geographic Exploring Science (California) Grade 6: MindTap*. Boston: National Geographic Learning/Cengage Learning.

Textbooks

National Geographic Exploring Science- State Specific Programs

Authors listed alphabetically

Note: Each citation also has a Spanish Edition with its own ISBN that is not listed

Bell, Randy.L., Butler, Malcolm., **Cabe Trundle**, K., & Lederman, Judith. (2021). *Exploring Science Kindergarten: Earth Science, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Kindergarten: Let's Do Science, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Kindergarten: Life Science, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Kindergarten: Physical Science, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Kindergarten, Teacher's Guide, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R., Butler, M., **Cabe Trundle**, K., Cervetti, G., Duke, N., Lederman, J., & Molebash, P. (2021). *National Geographic Exploring Science Kindergarten: MindTap, Oklahoma*. Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 1, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 1, MindTap, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

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Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 2, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 2, MindTap, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 2, Teacher's Guide, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 3, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 3, MindTap, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 3, Teacher's Guide, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 4, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 4, MindTap, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 4, Teacher's Guide, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 5, Student Edition, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., **Cabe Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 5, MindTap, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

Bell, R.L., Butler, M., Cabe **Trundle**, K., & Lederman, J. (2021). *Exploring Science Grade 5, Teacher's Guide, Oklahoma.* Boston: National Geographic Learning/Cengage Learning.

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Trundle, K. (Winter 1997). Laurie Henson: A noteworthy colleague, *Field Notes,* Lexington, KY: University of Kentucky.

Reviews and Abstracts: Peer-reviewed

Krissek, L. A. & **Trundle**, K.C. (2005). K-12 teachers' preferred forms of representation – the "old dog, new tricks" problem. *Abstracts with Programs: 117th Annual Meeting and Exposition, 37* (7), Abstract number 93759, Boulder, Colorado: The Geological Society of America.

Trundle, K.C. (2003). Conceptions about standards-based lunar concepts, *Eos Transactions,* American Geophysical Union, *84* (46), Abstract number ED22E-04, 1425h.

Trundle, K. C. (2002). Building on a cooperative learning foundation. In D. Tippins, T. Koballa, & B. Payne (Eds.). *Learning from cases: Unraveling the complexities of elementary science teaching.* Needham Heights, MA: Allyn & Bacon.

Trundle, K. C. (1999). Standard-based K-12 geoscience education in Kentucky, *Abstracts with Programs: 48th Annual Meeting, 31* (3), Abstract number 01688, Boulder, Colorado: The Geological Society of America.

Papers in Proceedings: Peer-reviewed (*Doctoral advisee/student)

Hagevik, R., **Trundle**, K. C., Campbell, K.U., Vela, K.N., *Wheeler, L., *Parslow, M., & Joy, D. (2023, January). Measuring secondary students' perceptions of bee conservation. *2023 ASTE Conference Proceedings*. Salt Lake City: Association for Science Teacher Education.

Hartono, H., Sofendi, S., Knowles, R., **Trundle**, K. C., Silvhiany, S., Hagevik, R., *Wheeler, L., & Inderawati, R. (2023, January). *Indonesian preservice teachers' awareness, uncertainty beliefs, values, and behaviors related to climate change. 2023 ASTE Conference Proceedings*. Salt Lake City: Association for Science Teacher Education.

Vela, K. N., *Parslow, M., **Trundle**, K. C., *Wheeler, L., Joy, D., & Hagevik, R. (2023, January). *How do students' science and mathematics identities and their connection to nature impact their desire to pursue STEAM careers? 2023 ASTE Conference Proceedings*. Salt Lake City: Association for Science Teacher Education.

*Wheeler, L., **Trundle**, K. C., Vela, K. N., Joy, D., *Parslow, M., & Hagevik, R. (2023, January). *Gardening connects me to nature: Middle school students STEM capital. 2023 ASTE Conference Proceedings*. Salt Lake City: Association for Science Teacher Education.

Trundle, K. C. & Hagevik, R. (2022). Digging into school gardens: A systematic review of the research*. 2022 ASTE Conference Proceedings*. Virtual Conference: Association for Science Teacher Education.

Hagevik, R., **Trundle**, K. C., & Falls, I. (2021). School gardening: Teaching sustainability through hearts-on, hands-on, minds-on learning*. 2021 ASTE Conference Proceedings*. Virtual Conference: Association for Science Teacher Education.

Hagevik, R. & **Trundle**, K. C. (2020). Garden-based education for engagement of underrepresented youth in STEM*. 2020 ASTE Conference Proceedings*. San Antonio: Association for Science Teacher Education.

Saçkes, M., **Trundle**, K. C., & Shaheen, M., (2018). The association between parental beliefs and preferences in early science education*. 2018 ASTE Conference Proceedings*. Baltimore: Association for Science Teacher Education.

Trundle, K. C., McCance, K., & Shaheen, M., (2018). Digging into gardening to grow science learning*. 2018 ASTE Conference Proceedings*. Baltimore: Association for Science Teacher Education.

*Green, K., **Trundle**, K. C., & Shaheen, M., (2017). *Integrating arts into science: Findings from a review of the literature. 2017 ASTE Conference Proceedings*. Des Moines, IA: Association for Science Teacher Education.

*Smith, M. M., Ding, L., & **Trundle**, K. C., (2017). Continued psychometric evaluation of the English version of The Nature of Solutions and Solubility a Diagnostic Instrument. *2017 ASTE Conference Proceedings*. Des Moines, IA: Association for Science Teacher Education.

*Smith, M. M., Ding, L., & **Trundle**, K. C. (2016). The English version of The Nature of Solutions and Solubility—Diagnostic Instrument (NSS–DI Eng): A psychometric evaluation using classical test theory. *2016 ASTE Conference Proceedings.* Reno, NV. Association for Science Teacher Education.

*Smith, M. M., Saçkes, M., & **Trundle**, K. C. (2015). A cross-cultural examination of U.S. and Turkish preschoolers' ideas about objects in the sky. *2015 ASTE Conference Proceedings.* Portland, OR. Association for Science Teacher Education.

Irving, K.E., Callam, C., Ding, L., Harper, K., Heckler, A., Krissek, L., Patton, B., Ridgway, J., **Trundle**, K., & Stroot, S. (2014). Methods in teaching secondary science II: An innovative collaboration between education, arts & sciences and engineering faculty. *2014 ASTE Conference Proceedings.* San Antonio, TX. Association for Science Teacher Education.

*Miller, H. L., * Smith, M. M., **Trundle**, K. C., * Hobson, S. M., * Mollohan, K. N., * Hilson, M. P., & Krissek, L. A.. (2014). I can dig it! What do elementary students know about the properties of rocks and soils? *2014 ASTE Conference Proceedings.* San Antonio, TX. Association for Science Teacher Education.

*Smith, M. M. & **Trundle**, K. C. (2014). Hearts-on, hands-on, minds-on: A model for preschool science learning. *2014 ASTE Conference Proceedings.* San Antonio, TX. Association for Science Teacher Education.

*Smith, M. M., **Trundle**, K. C., * Miller, H. L., * Saçkes, M., & *Mollohan, K. N. (2013). Using science inquiry to promote conceptual change with in-service preschool teachers. *2013 ASTE Conference Proceedings.* Charleston, SC: Association for Science Teacher Education.

Trundle, K. C., * Miller, H. L., * Smith, M. M., * Saçkes, M., & * Mollohan, K. N. (2013). Preschoolers' ideas about day and night and objects in the sky before and after

play-based science instruction. *2013 ASTE Conference Proceedings.* Charleston, SC: Association for Science Teacher Education.

Trundle, K. C., * Hobson, S. M., * Miller, H. L., * Smith, M. M., * Hilson, M. P., & Krissek, L. A. (2012). Digging into children's understandings of rocks and soils. *2012 ASTE Conference Proceedings.* Clearwater Beach, FL: Association for Science Teacher Education.

*Saçkes, M., * Hilson, M., **Trundle**, K. C. & Krissek, L. A. (2011).The relationship between the change in science content knowledge and science teaching efficacy beliefs of in-service elementary and middle school teachers*. 2011 ASTE Conference Proceedings.* Minneapolis, MN: Association for Science Teacher Education.

*Saçkes, M., **Trundle**, K. C. & Bell, R. L. (2011). The effect of computer-based instruction on young children's academic growth*. 2011 ASTE Conference Proceedings.* Minneapolis, MN: Association for Science Teacher Education.

*Wild, T. & **Trundle**, K. C. (2011). Teacher perceptions of teaching middle school students with visual impairments about seasonal change concepts*. 2011 ASTE Conference Proceedings.* Minneapolis, MN: Association for Science Teacher Education.

*Hobson, S., **Trundle**, K. C., & * Saçkes, M. (2010). Fostering science inquiry to promote conceptual change with young children. *2010 ASTE Conference Proceedings.* Sacramento, CA.: Association for Science Teacher Education.

*Saçkes, M., * Hilson, M., **Trundle**, K. C. & Krissek, L. A. (2010). The relationship between content knowledge of earth and space science concepts and science teaching efficacy beliefs of in-service elementary and middle school teachers. *2010 ASTE Conference Proceedings.* Sacramento, CA.: Association for Science Teacher Education.

*Saçkes, M., & **Trundle**, K. C. (2010). The influence of metaconceptual awareness on the change and the durability of conceptual understandings. *2010 ASTE Conference Proceedings.* Sacramento, CA.: Association for Science Teacher Education.

Bell, R. L. & **Trundle**, K. C. (2009). The use of a computer simulation to promote conceptual change: A quasi-experimental study. In *Proceedings of the 2009 Annual Meeting of the National Association of Research in Science Teaching.* Garden Grove, CA: National Association of Research in Science Teaching.

*Saçkes, M. & **Trundle**, K. C. (2009). The role of cognitive, metacognitive, and motivational variables in conceptual change in astronomy. In *Proceedings of the 2009 Annual Meeting of the National Association of Research in Science Teaching.* Garden Grove, CA: National Association of Research in Science Teaching.

*Hilson, M., **Trundle**, K. C., & Farland, D. (2009). Linking urban student achievement to teacher professional development. *2009 ASTE Conference Proceedings.* Hartford, CT: Association for Science Teacher Education.

*Hobson, S., **Trundle**, K. C., & * Saçkes, M. (2009). Young elementary students' conceptual understandings of lunar phases before and after an inquiry-based and technology-enhanced instructional intervention. *2009 ASTE Conference Proceedings.* Hartford, CT: Association for Science Teacher Education.

*Saçkes, M. & **Trundle**, K. C. (2009). Intentional conceptual change: The role of cognitive, metacognitive, and motivational variables in conceptual change. *2009 ASTE Conference Proceedings.* Hartford, CT: Association for Science Teacher Education.

*Wild, T. & **Trundle**, K. C. (2009). Students' with visual impairments conceptual understanding of seasonal change. *2009 ASTE Conference Proceedings.* Hartford, CT: Association for Science Teacher Education.

*Inan, H. Z., **Trundle**, K. C., & Kantor-Martin, R. (2008). *Quality environment and quality science education in a Reggio Emilia-inspired preschool. 2008 ASTE Conference Proceedings.* St. Louis: Association for Science Teacher Education.

Krissek, L. A., * Saçkes, M., & **Trundle**, K. C. (2008). *Early childhood teachers' understanding of the earth science concepts before and after instruction. 2008 ASTE Conference Proceedings.* St. Louis: Association for Science Teacher Education.

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*Schroeder**,** C. J. & **Trundle,** K. C. (2008). *Informal science education and how it can be effective for learning. 2008 ASTE Conference Proceedings.* St. Louis: Association for Science Teacher Education.

Trundle, K. C. & Bell, R. L. (2007). A comparison of three instructional interventions designed to promote conceptual change. In *Proceedings of the 2007 Annual Meeting of the National Association of Research in Science Teaching.* New Orleans, LA: National Association of Research in Science Teaching.

Bell, R. L. & **Trundle**, K. C. (2007).Using technology to promote conceptual change: Phase 3 of the research. *2007 ASTE Conference Proceedings.* Clearwater Beach, FL: Association for Science Teacher Education.

Bell, R. L.& **Trundle**, K. C. (2006). Shooting for the moon: Using a computer simulation to facilitate conceptual change about lunar concepts. In *Proceedings of the 2006 Annual Meeting of the National Association of Research in Science Teaching.* San Francisco, CA: National Association of Research in Science Teaching.

Trundle, K. C. & Krissek, L. A. (2006). Inservice teachers' use of multiple representations to teach standards-based earth science concepts. In *Proceedings of the 2006 Annual Meeting of the National Association of Research in Science Teaching.* San Francisco, CA: National Association of Research in Science Teaching.

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Dwyer, W., Sunal, D., Giesen, J., Sunal, C. & **Trundle**, K. (2001). Assessing Best Practices in Online Learning: A Review of the Literature. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2001* (pp. 175-182). Chesapeake, VA: AACE.

Potential Publications (Doctoral advisee)

Saçkes, M. & **Trundle**, K. C. (in process). The effect of computer-based instruction on children's academic growth during the early years. *Computer Assisted Instruction*.

*Smith, M. M., Ding, L., & **Trundle**, K. C. (in process). Psychometric evaluation of a new diagnostic instrument: Nature of solutions and solubility (NSS-DI Eng). *Science Education*.

Unpublished Scholarly Presentations

International/National: Invited

Trundle, K. C. (2022, October). *Ecojustice and Climate Change: Educating for a Sustainable Future.* [Keynote address]. Sriwijaya University Learning and Education International Conference (SULE-IC) 2022. Palembang, South Sumatra, Indonesia.

Trundle, K. C. (2022, October). *STEAM: Integrating the arts into STEM education.* [Keynote address]. Annual Conference on Education and Social Science. Mataram, West Nusa Tenggara, Indonesia.

Trundle, K. C. (2022, March). *First impressions matter: Preparing and maintaining a competitive CV and coverletter.* [Round table presentation] NARST.

Trundle, K. C. (2022, January). *First impressions matter: Preparing and maintaining a competitive CV and coverletter.* [Round table presentation]. Association for Science Teacher Education, Greeneville, SC.

Hagevik, R. & **Trundle**, K. C. (2021, December). *Accreditation: U.S. Teacher Education Programs.* [Keynote address]. Conference on International Accreditation of Teacher Education Programs. Sriwijaya University. Palembang, South Sumatra, Indonesia.

Trundle, K. C. (2021, December). *STEAM teaching and learning: Integration of the arts into STEM.* [Invited lecture]. Teaching and Learning in Interdisciplinary Contexts Symposium, Sultan Qaboos University, Al Khoud, Oman.

Trundle, K. C. (2021, November). *STEAM: Creatively integrating the arts into STEM education.* [Keynote address].Educational Science International Conference (ECIS), Samarinda, Indonesia.

Trundle, K. C. (2021, October). *Learners, vacationers, and prisoners: Conducting astronomy education research in PreK-12 settings.* [Invited talk and Panel discussion]. International Astronomical Union Shaw Workshop on Astronomy for Education, Heidelberg, Germany.

Trundle, K. C. (2021, March). *First impressions matter: Preparing and maintaining a competitive CV and coverletter.* [Round table presentation] NARST.

Trundle, K. C. (2021, January). *First impressions matter: Preparing and maintaining a competitive CV and coverletter.* [Round table presentation] Association for Science Teacher Education.

Trundle, K. C. (2020, March). *First impressions matter: Preparing and maintaining a competitive CV and coverletter.* [Round table presentation]. NARST, Portland, OR. (Conference canceled)

Trundle, K. C. (2020, January). *First impressions matter: Preparing and maintaining a competitive CV and coverletter.* [Round table presentation]. Association for Science Teacher Education, San Antonio, TX.

Trundle, K. C (2019, August). *Students' conceptual understandings enhanced through technology instruction and visualizations*. [Paper presentation]. European Science Education Research Association, Bologna, Italy.

Trundle, K. C. (2019, August). *Current trends in STEAM education.* [Keynote address]. International Conference on Mathematics, Science, and Computer Education (IC-MSCEdu) 2019. Banjarmasin, South Kalimantan, Indonesia.

Trundle, K. C. (2019, April). *Developing and maintaining your curriculum vitae.* [Round table presentation]. NARST, Baltimore, MD.

Trundle, K. C. (2019, January). *Developing and maintaining your curriculum vitae.* [Round table presentation]. Association for Science Teacher Education, Savannah, GA.

Trundle, K. C. (2018, October). *Integrating the arts into science teaching and learning.* [Keynote address]. Sriwijaya University Learning and Education International Conference (SULE-IC) 2018. Palembang, South Sumatra, Indonesia.

Trundle, K. C. (2018, July). *Reaching for the stars: Stellar insights from astronomy education research.* [Keynote address]. Robotic Telescopes, Student Research, & Education Conference and the International Astronomy Teaching Summit Conference. Hilo, Hawaii.

Trundle, K. C. (2018, May). *Publishing in peer reviewed journals.* [Keynote address]. Conference on Integrating the Arts, Creativity, and Design into STEM Education. Sriwijaya University. Palembang, South Sumatra, Indonesia.

Trundle, K. C. (2018, May). *STEM education.* [Keynote address]. Conference on Integrating the Arts, Creativity, and Design into STEM Education. Sriwijaya University. Palembang, South Sumatra, Indonesia.

Trundle, K. C., & * Green, K. (2018, May). *Integrating the arts into science teaching and learning.* [Keynote address]. Conference on Integrating the Arts, Creativity, and Design into STEM Education. Sriwijaya University. Palembang, South Sumatra, Indonesia.

Trundle, K. C. (2017, October). *Digging into gardening to germinate science learning.* [Keynote address]. 15th Annual Design Institute. Raleigh, North Carolina.

Trundle, K. C. (2017, May). *Innovative and integrated science, technology, engineering, arts and mathematics (STEAM) curriculum for preschool children: Research and practice.* [Keynote address]. World Forum on Early Care and Education. Auckland, New Zealand.

Trundle, K. C., * Green, K., & Shaheen, M. (2016, October). *Integrating the arts into science teaching and learning.* [Keynote address]. Sriwijaya University Learning and Education International Conference (SULE-IC) 2016. Palembang, South Sumatra, Indonesia.

Trundle, K. C. (2016, May). *STEM and STEAM during the early childhood years.* [Keynote address]. International Conference on Education in Mathematics, Science and Technology (ICEMST). Bodrum, Turkey.

Trundle, K. C. (2015, May). *STEAM education and the curriculum writing process*. [Workshop]. Primrose Schools National Headquarters. Atlanta.

Trundle, K. C. (2015, May). *Teaching science for young children: Inquiry-based play*. [Keynote address]. Primrose Schools Conference. Chicago.

Trundle, K. C. (2015, March). *Teaching science for young children: Inquiry-based play*. [Keynote address]. Middle East Technical University Collage Symposium. Ankara, Turkey.

Trundle, K. C. (2014, November). *Incorporating literacy into core subject areas: An example from science*. [Keynote address]. Shelby County Schools Elementary Mini Conference. Memphis.

Trundle, K. C. (2014, October). *Scientific literacy and effective instruction*. [Keynote address]. National Geographic Learning Professional Development Symposium. Memphis.

Trundle, K. C. (2014, October). *Scientific literacy and effective instruction*. [Keynote address]. National Geographic Learning Professional Development Symposium. Nashville.

Trundle, K. C. (2014, October). *Scientific literacy and effective instruction*. [Keynote address]. National Geographic Learning Professional Development Symposium. Knoxville.

Trundle, K. C. (2013, August). *The importance of science in early childhood learning*. [Keynote address]. Hubei Science and Technology Museum Research Society. Xianning, China.

Trundle, K. C. (2013, June). *Science in elementary schools*. [Invited talk]. Undiksha University, Singaraja, Indonesia.

Trundle, K. C. (2013, June). *Trends and issues in education research*. [Invited talk]. Undiksha University, Singaraja, Indonesia.

Trundle, K. C. (2013, June). *Trends and issues in science education*. [Invited talk]. Undiksha University, Singaraja, Indonesia.

Trundle, K. C. (2013, June). *Using mixed methods to describe and measure conceptual change*. [Invited paper presentation]. Universitas Negeri Semarang (UNNES), Semarang, Indonesia.

Trundle, K. C. (2013, January). *The effectiveness of Physics by Inquiry to teach the cause of moon phases.* [Invited paper presentation]. American Association of Physics Teachers, New Orleans.

Trundle, K. C. (2012, October). *Using mixed methods to describe and measure conceptual change*. [Invited paper presentation]. Bogazici University, Istanbul, Turkey.

Trundle, K. C. (2012, September). *Science and early childhood education*. [Keynote address]. International Congress on Early Childhood Education. Adana, Turkey.

Trundle, K. C. (2012, August). *Using mixed methods to describe and measure conceptual change*. [Invited paper presentation]. Universitas Negeri Semarang (UNNES), Semarang, Indonesia.

Trundle, K. C. (2012, March). *Elementary extravaganza: Let it roll!* [Invited paper presentation]. National Science Teachers Association, Indianapolis, IN.

Trundle, K. C. (2011, October). *Using qualitative methods to describe conceptual change.* [Invited paper presentation]. Bogazici University, Istanbul, Turkey.

Trundle, K. C. (2011, October). *Using qualitative methods to describe conceptual change.* [Invited paper presentation]. Gazi University, Ankara, Turkey.

Trundle, K. C. (2011, October). *Using qualitative methods to describe conceptual change.* [Invited paper presentation]. Çukurova University, Adana, Turkey.

Trundle, K. C. (2011, October). *Using qualitative methods to describe conceptual change.* [Invited paper presentation]. Balikesir University, Balikesir, Turkey.

Trundle, K. C. (2011, March). *The magnetic attraction of inquiry: Transforming science instruction.* [Invited paper presentation]. National Science Teachers Association, San Francisco, CA.

Trundle, K. C. (2011, March). *The magnetic attraction of inquiry: Transforming science instruction.* [Invited paper presentation]. ASCD, San Francisco, CA.

Trundle, K. C. (2003, December). *Conceptions about standards-based lunar concepts.* [Invited paper presentation]. American Geophysical Union, San Francisco, CA.

International/National: Peer-reviewed (*Doctoral advisee/student)

Hagevik, R., **Trundle**, K. C., Campbell, K.U., Vela, K.N., *Wheeler, L., *Parslow, M., & Joy, D. (2023, April). Examining secondary students' awareness of bee conservation in the U.S. Paper accepted to be presented at the annual meeting of the NARST, Chicago.

*Parslow, M., Vela, K. N., **Trundle** K. C., Hagevik, R., *Wheeler, L., & Joy, D. (2023, April). How do students' science, mathematics, and nature identities impact students' interest in STEAM careers? Paper accepted to be presented at the annual meeting of the NARST, Chicago.

Trundle, K. C., Hagevik, R., *Wheeler, L., Knowles, R., Silvhiany, S., Inderawati, R., Hartono, H., & Sofendi, S. (2023, April). *Indonesian preservice teachers and climate change: Awareness, beliefs, values, and behaviors*. Paper accepted to be presented at the annual meeting of NARST, Chicago.

Trundle, K. C., Hagevik, R., *Wheeler, L., Knowles, R., Silvhiany, S., Inderawati, R., Hartono, H., & Sofendi, S. (2023, April). *Indonesian preservice teachers and climate change*. Paper accepted to be presented at the annual meeting of the AERA, Chicago.

Vela, K. N., *Parslow, M., **Trundle**, K. C., Hagevik, R. Joy, D., & *Wheeler, L. (2023, April). S*cience and mathematics identities and connection to nature—impact on students' interest in STEAM careers.* Paper accepted to be presented at the annual meeting of the AERA, Chicago.

Hagevik, R., **Trundle**, K. C., & Vela, K.N. (2023, March). Garden-based STEAM learning and smart foodscapes: Protecting rangelands and pollinators. Proposal under review to be presented at the annual meeting of NSTA, Atlanta.

*Larsen, L., Rhodes, S., & **Trundle**, K. C. (2023, March). Cultivating social and emotional learning through school gardening. Proposal under review to be presented at the annual meeting of NSTA, Atlanta.

*Wheeler, L., **Trundle**, K. C., & Hagevik, R. (2023, March). The next generation of engineers. Proposal under review to be presented at the annual meeting of NSTA, Atlanta.

Hagevik, R., **Trundle**, K. C., Campbell, K.U., Vela, K.N., Wheeler, L., Parslow, M., & Joy, D. (2023, January). Measuring secondary students' perceptions of bee conservation. Paper accepted to be presented at the annual meeting of the ASTE, Salt Lake City, Utah.

Hartono, H., Sofendi, S., Knowles, R., **Trundle**, K. C., Silvhiany, S., Hagevik, R., *Wheeler, L., & Inderawati, R. (2023, January). *Indonesian preservice teachers' awareness, uncertainty beliefs, values, and behaviors related to climate change.* Paper accepted to be presented at the annual meeting of the Association for Science Teacher Education, Salt Lake City.

Vela, K. N., *Parslow, M., **Trundle**, K. C., *Wheeler, L., Joy, D., & Hagevik, R. (2023, January). *How do students' science and mathematics identities and their connection to nature impact their desire to pursue STEAM careers?* Paper accepted to be presented at the annual meeting of the Association for Science Teacher Education, Salt Lake City.

*Wheeler, L., **Trundle**, K. C., Vela, K. N., Joy, D., *Parslow, M., & Hagevik, R. (2023, January). *Gardening connects me to nature: Middle school students STEM capital.* Paper accepted to be presented at the annual meeting of the Association for Science Teacher Education, Salt Lake City.

Trundle, K. C. & Hagevik, R. (2022, April). *Using school gardens to teach science: A systematic review of the research.* Paper presented at the annual meeting of the AERA, San Diego.

Trundle, K. C. & Hagevik, R. (2022, March). *Empirical research on school garden-based learning: A systematic review of the literature.* Paper presented at the annual meeting of NARST, Vancouver.

Trundle, K. C. & Hagevik, R. (2022, January). *Digging into school gardens: A systematic review of the research.* Paper presented at the annual meeting of the Association for Science Teacher Education, Greenville, South Carolina.

Hagevik, R., **Trundle**, K. C., & Falls, I. (2021, January). *School gardening: Teaching sustainability through hearts-on, hands-on, minds-on learning.* Paper presented at the annual meeting of the Association for Science Teacher Education, Virtual Conference.

Lederman, N. G., Akerson, V. L., Crowther, D., Lederman, J., Sampson, V. D., & **Trundle**, K. C. (2020, March). *Translating your research into forms that are useful to K-12 science educators.* Symposium at the annual meeting of NARST, Portland, OR. (Conference canceled)

Hagevik, R. & **Trundle**, K. C. (2020, January). *Garden-based education for engagement of underrepresented youth in STEM.* Paper presented at the annual meeting of the Association for Science Teacher Education, San Antonio.

Hagevik, R. & **Trundle**, K. C. (2019, August). *The effects of gardening on STEM identity for underrepresented youth.* Paper presented at the biannual meeting of the European Science Education Research Association, Bologna, Italy.

Saçkes, M., **Trundle**, K. C., & Shaheen, M., (2018, January). *The association between parental beliefs and preferences in early science education.* Paper presented at the annual meeting of the Association for Science Teacher Education, Baltimore.

Trundle, K. C., *McCance, K., & Shaheen, M., (2018, January). *Digging into gardening to grow science learning.* Paper presented at the annual meeting of the Association for Science Teacher Education, Baltimore.

Trundle, K. C., *Green, K., & Shaheen, M., (2017, August). *Integrating arts and science.* Paper presented at the biannual meeting of the European Science Education Research Association, Dublin, Ireland.

*Green, K., **Trundle**, K. C., & Shaheen, M., (2017, April). *Transforming science teaching and learning through arts integration*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.

*Green, K., **Trundle**, K. C., & Shaheen, M., (2017, April). *Integrating the arts into science teaching and learning.* Paper presented at the annual meeting of the NARST, San Antonio, TX.

*Green, K., **Trundle**, K. C., & Shaheen, M., (2017, January). *Integrating arts into science: Findings from a review of the literature.* Paper presented at the annual meeting of the Association for Science Teacher Education, Des Moines, IA.

*Smith, M. M., Ding, L., & **Trundle**, K. C., (2017, January). *Continued psychometric evaluation of the English version of The Nature of Solutions and Solubility a Diagnostic Instrument.* Paper presented at the annual meeting of the Association for Science Teacher Education, Des Moines, IA.

*Smith, M. M., Ding, L., & **Trundle**, K. C. (2016, April). *Psychometric evaluation of the Nature of Solutions and Solubility—Diagnostic Instrument English version.* Paper presented at the annual meeting of NARST, Baltimore, MD.

*Smith, M. M., Ding, L., & **Trundle**, K. C. (2016, January). *The English version of The Nature of Solutions and Solubility—Diagnostic Instrument (NSS–DI Eng): A psychometric evaluation using classical test theory*. Paper presented at the annual meeting of the Association for Science Teacher Education, Reno, NV.

Trundle, K. C., *Saçkes, M., & *Smith, M. M. (2015, September). *U.S. and Turkish preschoolers' observational knowledge of astronomy concepts.* Paper presented at the biannual meeting of the European Science Education Research Association, Helsinki, Finland.

Trundle, K. C., *Saçkes, M., & *Smith, M. M. (2015, April). *Objects in the sky: a Cross-Cultural examination of preschoolers' ideas.* Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Trundle, K. C., Bell, R. L., & *St. Clair, T. (2015, March). *Teaching inquiry and the nature of science, K-8.* Paper presented at the annual meeting of the National Science Teachers Association, Chicago, IL.

*Smith, M. M., *Saçkes, M., & **Trundle**, K. C. (2015, January). A cross-cultural examination of U.S. and Turkish preschoolers' ideas about objects in the sky. Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.

Irving, K.E., Callam, C., Ding, L., Harper, K., Heckler, A., Krissek, L., Patton, B., Ridgway, J., **Trundle**, K., & Stroot, S. (2014, January). *Methods in teaching secondary science II: An innovative collaboration between education, arts & sciences and engineering faculty.* Paper presented at the annual meeting of the Association for Science Teacher Education, San Antonio, TX.

*Miller, H. L., *Smith, M. M., **Trundle**, K. C., *Hobson, S. M., *Mollohan, K. N., *Hilson, M. P., & Krissek, L. A.. (2014, January). *I can dig it! What do elementary students know about the properties of rocks and soils?* Paper presented at the annual meeting of the Association for Science Teacher Education, San Antonio, TX.

*Smith, M. M. & **Trundle**, K. C. (2014, January). *Hearts-on, hands-on, minds-on: A model for preschool science learning.* Paper presented at the annual meeting of the Association for Science Teacher Education, San Antonio, TX.

*Miller, H. L., *Smith, M. M., **Trundle**, K. C., *Saçkes, M., & *Mollohan, K. N. (2013, April). *Astronomy in preschool? Using play-based science instruction to teach space science concepts to preschool children*. Paper presented at the annual meeting of NARST, Rio Grande, Puerto Rico.

*Smith, M. M., *Miller, H. L., **Trundle**, K. C., & *Saçkes, M. (2013, April). *Promoting conceptual change using an inquiry-based professional development with in-service preschool teachers.* Paper presented at the annual meeting of NARST, Rio Grande, Puerto Rico.

Yurttas, G. D., *Yürük, N. & **Trundle**, K. C. (2013, February). *8th grade students' alternative conceptions of the moon phases.* Paper presented at the World Conference on Educational Sciences, Rome.

*Smith, M. M., **Trundle**, K. C., *Miller, H. L., *Saçkes, M., & *Mollohan, K. N. (2013, January). *Using science inquiry to promote conceptual change with in-service preschool teachers*. Paper presented at the annual meeting of the Association for Science Teacher Education, Charleston, SC.

Trundle, K. C., *Miller, H. L., *Smith, M. M., *Saçkes, M., & *Mollohan, K. N. (2013, January). *Preschoolers' ideas about day and night and objects in the sky before and after play-based science instruction*. Paper presented at the annual meeting of the Association for Science Teacher Education, Charleston, SC.

*Uçar, S., **Trundle**, K. C., & Krissek, L. A. (2012, October). *Early childhood preservice teachers and their undrstandings of earth science concepts*. Paper presented at the XV IOSTE International Symposium on Science & Technology Education for Development, Citizenship and Social Justice.

Trundle, K. C., *Saçkes, M., *Smith, M. M., & *Miller, H. L. (2012, September). *Preschoolers' ideas about day and night and objects in the sky*. Paper presented at the annual meeting of the International Congress on Early Childhood Education. Adana, Turkey.

Trundle, K. C. & Bell, R. L. (2012, March). *Observation, inference, and the nature of science.* Paper presented at the annual meeting of the National Science Teachers Association, Indianapolis, IN.

Trundle, K. C., *Hobson, S. M., *Miller, H. L., *Smith, M. M., *Hilson, M. P., & Krissek, L. A. (2012, January). *Digging into children's understandings of rocks and soils.* Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Saçkes, M., **Trundle**, K. C. & Bell, R. L. (2011, April). *The effect of computer-based instruction on young children's academic growth.* Paper presented at the annual meeting of American Educational Research Association, New Orleans, LA.

Voithofer, R., Erchick, D., **Trundle**, K. C. & Dixon, A. (2011, April). *Teaching genetic literacy in middle school using an evolutionary genetic simulation.* Paper presented at the annual meeting of American Educational Research Association, New Orleans, LA.

Bell, R. L. & **Trundle**, K. C. (2011, March). *Teaching about inquiry and the nature of science in grades K-8.* Paper presented at the annual meeting of the National Science Teachers Association, San Francisco, CA.

*Saçkes, M., *Hilson, M., **Trundle**, K. C. & Krissek, L. A. (2011, January).*The relationship between the change in science content knowledge and science teaching efficacy beliefs of in-service elementary and middle school teachers.* Paper presented at the annual meeting of Association for Science Teacher Education, Minneapolis, MN.

*Saçkes, M., **Trundle**, K. C. & Bell, R. L. (2011, January). *The effect of computer-based instruction on young children's academic growth.* Paper presented at the annual meeting of Association for Science Teacher Education, Minneapolis, MN.

*Wild, T. & **Trundle**, K. C. (2011, January). *Teacher perceptions of teaching middle school students with visual impairments about seasonal change concepts.* Paper presented at the annual meeting of Association for Science Teacher Education, Minneapolis, MN.

*Saçkes, M., & **Trundle**, K. C. (2010, March). *The role of metaconceptual awareness in the change and the durability of conceptual understandings.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, Philadelphia, PA

*Hobson, S., **Trundle**, K. C., & *Saçkes, M. (2010, January). *Fostering science inquiry to promote conceptual change with young children*. Paper presented at the annual meeting of Association for Science Teacher Education, Sacramento, CA.

*Saçkes, M., *Hilson, M., **Trundle**, K. C. & Krissek, L. A. (2010, January). *The relationship between content knowledge of earth and space science concepts and science teaching efficacy beliefs of in-service elementary and middle school teachers.* Paper presented at the annual meeting of Association for Science Teacher Education, Sacramento, CA.

*Saçkes, M., & **Trundle**, K. C. (2010, January). *The influence of metaconceptual awareness on the change and the durability of conceptual understandings.* Paper presented at the annual meeting of Association for Science Teacher Education, Sacramento, CA.

*Uçar, S. & **Trundle**, K. C. (2009, August). *Turkish pre-service teachers' conceptions of tides and the impact of inquiry-based and technology supported instruction on tides*. Paper presented at the annual meeting of the European Science Education Research Association, Istanbul, Turkey.

*Saçkes, M., Flevares, L., & **Trundle**, K. C. (2009, April). *Children's mental models of the mechanism of rainfall*. Paper presented at the annual meeting of the Society for Research in Child Development, Denver, CO.

Bell, R. L. & **Trundle**, K. C. (2009, April). *The use of a computer simulation to promote conceptual change: A quasi-experimental study*. Paper presented at the annual meeting of National Association of Research in Science Teaching, Garden Grove, CA.

*Hilson, M., **Trundle**, K. C., & Farland, D. (2009, April). *Classroom action research as professional development in science education*. Paper presented at the annual meeting of National Association of Research in Science Teaching, Garden Grove, CA.

*Hobson, S., **Trundle**, K. C., & *Saçkes, M. (2009, April). *Young children's conceptual understanding about the moon before and after an inquiry-based, technology-enhanced experience*. Paper presented at the annual meeting of National Association of Research in Science Teaching, Garden Grove, CA.

*Saçkes, M. & **Trundle**, K. C. (2009, April). *The role of cognitive, metacognitive, and motivational variables in conceptual change in astronomy*. Paper presented at the annual meeting of National Association of Research in Science Teaching, Garden Grove, CA.

*Wild, T. & **Trundle**, K. C. (2009, April). *The conceptual understandings of middle school students with visual impairments concerning seasonal change*. Paper presented at the annual meeting of National Association of Research in Science Teaching, Garden Grove, CA.

*Hilson, M., **Trundle**, K. C., & Farland, D. (2009, January). *Linking urban student achievement to teacher professional development*. Paper presented at the annual meeting of Association for Science Teacher Education, Hartford, CT.

*Hobson, S., **Trundle**, K. C., & *Saçkes, M. (2009, January). *Young elementary students' conceptual understandings of lunar phases before and after an inquiry-based and technology-enhanced instructional intervention*. Paper presented at the annual meeting of Association for Science Teacher Education, Hartford, CT.

*Saçkes, M. & **Trundle**, K. C. (2009, January). *Intentional conceptual change: The role of cognitive, metacognitive, and motivational variables in conceptual change*. Paper presented at the annual meeting of Association for Science Teacher Education, Hartford, CT.

*Wild, T. & **Trundle**, K. C. (2009, January). *Students' with visual impairments conceptual understanding of seasonal change*. Paper presented at the annual meeting of Association for Science Teacher Education, Hartford, CT.

*Adadan, E., **Trundle**, K.C., & Irving, K. (2008, April). *Progression in grade 11 students' conceptions about the aspects of the particle theory*. Paper presented at the annual meeting of National Association of Research in Science Teaching, Baltimore, MD.

*Inan, H. Z., **Trundle**, K. C., & Kantor-Martin, R. (2008, January). *Quality environment and quality science education in a Reggio Emilia-inspired preschool.* Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis.

Krissek, L. A., *Saçkes, M., & **Trundle**, K. C. (2008, January). *Early childhood teachers' understanding of earth science concepts before and after instruction.* Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis.

*Saçkes, M., **Trundle**, K. C., & Krissek, L. A. (2008, January). *Early childhood teachers' understanding of lunar concepts before and after instruction.* Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis.

*Schroeder, C. J. & **Trundle**, K. C. (2008, January). *Informal science education and how it can be effective for learning.* Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis.

Bell, R. L. & **Trundle**, K. C. (2007, November). *Using a computer-based planetarium program to promote conceptual change about moon phases*. Paper presented at the annual meeting of the School Science and Mathematics Association, Indianapolis, IN.

*Adadan, E., Irving, K., & **Trundle**, K.C. (2007, April). *High school students' learning pathways of the particulate nature of matter.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

*Hilson, M. & **Trundle**, K. C. (2007, April). *Teaching like a researcher: Evaluation of student science achievement gains within teacher classroom action research projects.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

*Hobson, S. & **Trundle**, K. C. (2007, April). *Discourse in an early childhood science classroom surrounding the use of planetarium software.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

*Inan, H. Z., **Trundle**, K. C., & Kantor-Martin, R. (2007, April). *An exemplary approach to natural sciences education in preschool: Reggio Emilia.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

Trundle, K. C. & Bell, R. L. (2007, April). *A comparison of three instructional interventions designed to promote conceptual change.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

*Uçar, S., **Trundle**, K. C. & Krissek, L. A. (2007, April). *The impact of inquiry-based and technology supported instruction on pre-service teachers' conceptions of tides.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

*Inan, H. Z., **Trundle**, K. C., & Kantor-Martin, R. (2007, April). *The intersection of effective teaching/learning strategies in natural sciences education and early childhood education approaches: Reggio Emilia and its reflections in an American laboratory preschool.* Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Bell, R. L. & **Trundle**, K. C. (2007, January).*Using technology to promote conceptual change: Phase 3 of the research*. Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Hilson, M. & **Trundle**, K. C. (2007, January). *Evaluation of student science achievement gains within teacher classroom action research projects.* Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Hobson, S. & **Trundle**, K. C. (2007, January). *Using a planetarium software program to stimulate discourse in an early childhood classroom.* Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Inan, H. Z., **Trundle**, K. C., & Kantor-Martin, R. (2007, January). *Exploring natural sciences education within in a Reggio Emilia-inspired preschool context.* Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Saçkes, M. & **Trundle**, K. C. (2007, January). *Myths and misconceptions: A review of lunar literature.* Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Uçar, S., **Trundle**, K. C. & Krissek, L. A. (2007, January). *Pre-service teachers' conceptions of tides before and after inquiry-based and technology supported instruction.* Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Wild, T. & **Trundle**, K. C. (2007, January). *Teaching conservation utilizing the National Wild Turkey Federation curriculum.* Paper presented at the annual meeting of the Association for Science Teacher Education, Clearwater Beach, FL.

*Wild, T. & **Trundle**, K. C. (2006, September). *Talking turkey: Utilizing the National Wild Turkey Federation's Conservation Curriculum in teaching students with visual impairments.* Paper presented at the annual meeting of the Research in the Rockies Fourth Research Summit on Low-Incidence Disabilities, Vail, CO.

Trundle, K.C. & Bell, R. L. (2006, April). *Using a computer simulation to promote conceptual change about moon phases.* Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

*Adadan, E., **Trundle**, K.C., & Irving, K. (2006, April). *Learning with multiple representations: High school students' understanding of particulate nature of matter.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, San Francisco, CA.

Bell, R. L. & **Trundle**, K.C. (2006, April). *Shooting for the moon: Using a computer simulation to facilitate conceptual change about lunar concepts.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, San Francisco, CA.

Trundle, K.C. & Krissek, L. A. (2006, April). *Inservice teachers' use of multiple representations to teach standards-based earth science concepts.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, San Francisco, CA.

*Adadan, E., **Trundle**, K.C., & Irving, K. (2006, January). *High school students' understanding of the nature of matter.* Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.

Krissek, L. A. & **Trundle**, K.C. (2006, January). *Inservice teachers' integration of multiple representations into earth science teaching*. Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.

Trundle, K.C. & Bell, R. L. (2006, January).*Using technology to promote conceptual change: Phase 2 of the research*. Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.

*Uçar, S., **Trundle**, K. C. & Krissek, L. A. (2006, January). *Preservice teachers' understanding of standards-based earth science content for grades K-4*. Paper

presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.

Krissek, L. A. & **Trundle**, K.C. (2005, October). *K-12 teachers' preferred forms of representation – the "old dog, new tricks" problem.* Paper presented at the annual meeting of the Geological Society of America, Salt Lake City, UT.

Trundle, K.C. & Bell, R. L. (2005, April). *The use of a computer simulation to promote scientific conceptions of moon phases*. Paper presented at the annual meeting of the National Association of Research in Science Teaching, Dallas, TX.

*Beilfuss, M., Krissek, L., Boone, W., **Trundle**, K., *White, O., & *Uçar, S. (2005, January). *Development and validation of the Geology Content Knowledge Assessment*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Colorado Springs, CO.

Bell, R. L. & **Trundle**, K. C. (2005, January). *The sky's the limit: The impact of planetarium software on preservice teachers' conceptions of moon phases.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Colorado Springs, CO.

Trundle, K. C., Krissek, L. A., & *Uçar, S. (2005, January). *Using multiple representations to train teachers to teach standards-based earth science concepts.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Colorado Springs, CO.

Trundle, K. C., Bell, R. L. & *Bayes, M. (2004, October). *Using planetarium software to teach astronomy concepts: An example with children who are deaf or hard of hearing.* Paper presented at the annual meeting of the School Science and Mathematics Association, Atlanta, GA.

*Uçar, S., *Saçkes, M., **Trundle**, K. C. & Krissek, L. A. (2004, October). *Don't treat your soil like dirt: Learning cycle lessons on soil for grades K-4.* Paper presented at the annual meeting of the School Science and Mathematics Association, Atlanta, GA.

Trundle, K. C., Atwood, R. K. & Christopher, J. E. (2004, January). *Eighth grade students' conceptions of standards-based lunar concepts.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Nashville, TN.

Trundle, K. C., Cohen, M. R., & Smith, W. S. (2004, January). *Continuously learning your subject matter: Three case studies of moon phases.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Nashville, TN.

*Lee, L. H., **Trundle**, K. C., & Smith, W. S. (2003, October). *Under one big sky: Linking students and preservice teachers from around the world through lunar observations.* Paper presented at the annual meeting of the School Science and Mathematics Association, Columbus, OH.

Trundle, K. C., Atwood, R. K. & Christopher, J. E. (2003, March). *A longitudinal study of preservice elementary teachers' conceptions of moon phases.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, Philadelphia, PA.

Martin, R. E. & **Trundle**, K. C. (2003, January). *The Ohio Resource Center (ORC): A new web-based resource for teacher educators and preservice teachers.* Paper

presented at the annual meeting of the Association for the Education of Teachers in Science, St. Louis, MO.

Ridgway, J. & **Trundle**, K. C. (2003, January). *The National STEM Digital Libraries Science Metadata Project: Unexpected professional development benefits.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, St. Louis, MO.

Smith, W. S., **Trundle**, K. C. & * Moreillon, T. (2003, January). *Preservice elementary teachers engage students from the Navajo Nation, Indianapolis, Ohio, Alaska, and Australia via the Internet to share and understand students' lunar observations.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, St. Louis, MO.

Trundle, K. C., Atwood, R. K. & Christopher, J. E. (2003, January). *Preservice elementary teachers' conceptions of standards-based lunar concepts for grades K-4.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, St. Louis, MO.

*Sundberg, C. W., **Trundle**, K. C., Giesen, J. L., *Accalogoun, L., & Sunal, D. W. (2002, April). *Using an online learning environment to develop learning cycle lesson planning skills.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

Smith, W. S., **Trundle**, K. C. & *Moreillon, T. (2002, March). *MOON Project: Linking students from around the world through lunar observations.* Paper presented at the annual meeting of the National Science Teachers Association.

Christopher, J. E., Atwood, R. K., & **Trundle**, K. C. (2002, January). *Middle school teachers' preparedness to teach standards-based light concepts.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Charlotte, NC.

*Sundberg, C. W., **Trundle**, K. C., *Accalogoun, L., *Bland, J., Sunal, D. W., Sunal, C. S., & Giesen, J. L. (2002, January). *Learning cycle lesson plan rubric.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Charlotte, NC.

Sunal, D. W., *Staples, K. A., Sunal, C. S., Shwery, C. S., **Trundle**, K. C., * Sundberg, C., & Odell, M. R. (2001, November). *Effective pedagogy for online learning environments.* Paper presented at the 7th Sloan-C International Conference on Online Learning, Orlando, FL.

Sunal, D. W., Sunal, C. S., **Trundle**, K. C., & Giesen, J. L. (2001, August). *Psychological and sociological factors involved in construction of meaning through online learning: A hypothesis generating study.* Paper presented at the annual meeting of the American Psychological Association Annual Conference in San Francisco, CA.

Atwood, R. K., Christopher, J. E., & **Trundle**, K. C. (2001, March). *Standards-based heat and temperature concepts for middle school science: Are teachers adequately prepared?* Paper presented at the annual meeting of the National Association of Research in Science Teaching, St. Louis, MO.

*Staples, K. A., Sunal, D. W., Mays, A. M., Giesen, J. L., Sunal, C. S., Dwyer, W. M., *Sundberg, C., Wilson, L., & **Trundle**, K. C. (2001, March). *Research design and evaluation for the online learning environment.* Paper presented at the

annual meeting of the National Association of Research in Science Teaching, St. Louis, MO.

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2001, March). *Elementary preservice teachers' conceptual understandings of moon phases: Updates and extensions of a preliminary study.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, St. Louis, MO.

Dwyer, W. M., Sunal, D. W., Giesen, J. L., Sunal, C. S., & **Trundle**, K. C. (2001, March). *Assessing best practices in online learning: A review of the literature.* Paper presented at the annual meeting of the Society for Information Technology & Teacher Education, Orlando, FL.

Trundle, K. C. (2001, January). *Trends in earth/space science education and Kentucky's response to key issues.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Costa Mesa, CA.

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2000, April). *Inquiry-based physics instruction and conceptions of moon phases.* Paper presented at the annual meeting of the National Association of Research in Science Teaching, New Orleans, LA.

Sundberg, C., Sunal, D., Mays, A., Sunal, C., Dwyer, W., Staples, K., Wilson, L., **Trundle**, K., Giesen, J., & Shwery, C. (2000, April). *Best practice in online instruction: Implications of the literature for higher education.* Paper presented at the annual meeting of the American Educational Research Association international conference, Seattle, WA.

Trundle, K. C. (2000, January). *Misrepresentation of the moon.* Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Akron, OH.

Trundle, K. C. (1999, January). *Standard-based K-12 geoscience education in Kentucky.* Invited paper presented at the annual meeting of the Geological Society of America, Athens, GA.

Trundle, K. C., & Robinson, S. (1998, April). *The use of current events with mathematics and science preservice teachers.* Paper presented at the annual meeting of the School Science and Mathematics Association, Louisville, KY.

Trundle, K. C., & Robinson, S. (1997, October). *Current events: An underutilized resource for mathematics and science teachers.* Paper presented at the annual meeting of the National Science Teachers Association, Nashville, TN.

Regional: Invited

Trundle, K. C. (2011, September). *The magnetic attraction of inquiry.* Ultimate Educator Expo for Tri-State Educators. Greater Cincinnati Environmental Educators and Cincinnati Zoo & Botanical Garden, Cincinnati, OH.

Regional: Peer-reviewed

*Green, K, **Trundle**, K. C., & Shaheen, M. (2016, September). *Integrating the arts into science teaching and learning: A review of the literature.* Paper presented at the annual of Mid-Atlantic Region meeting of the Association for Science Teacher Education, Gatlinburg, TN.

*Smith, M. M., Ding, L., & **Trundle**, K. C. (2015, October). *A psychometric evaluation of the English version of The Nature of Solutions and Solubility—Diagnostic*

Instrument (NSS–DI Eng), using classical test theory. Paper presented at the annual of Mid-Atlantic Region meeting of the Association for Science Teacher Education, Lore City, OH.

*Smith, M. M., Saçkes, M., & **Trundle**, K. C. (2014, September). *US and Turkish preschoolers' observational knowledge of day and night cycle.* Paper presented at the annual meeting of Mid-Atlantic Regional meeting of the Association of Science Teacher Education, Blowing Rock, NC.

*Mollohan, K., Ding, Ridgway, & **Trundle**, K. C. (2013, September). *College student epistemological views about biology and learning biology.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association of Science Teacher Education, Daniels, WV.

Trundle, K. C., *Hobson, S. M., *Miller, H. L., *Hilson, M. P., *Smith, M. M., Krissek, L. A. (2011, September). *Young children's understandings of rocks and soils.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association of Science Teacher Education, Olive Hill, KY.

Flevares, L., *Saçkes, M., Gonya, J., & **Trundle**, K. C. (2009, September). *Preservice early childhood teachers' sense of efficacy for integrating mathematics and science: Effectiveness of a methods course.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association of Science Teacher Education, Friendship, OH.

*Saçkes, M., * Hilson, M., **Trundle**, K. C. & Krissek, L. A. (2009, September).*The effect of a summer institute on in-service elementary and middle school teachers' science content knowledge and efficacy beliefs for teaching science.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association of Science Teacher Education, Friendship, OH.

*Wild, T. & **Trundle**, K. C. (2009, September). *Middle school students' with visual impairments conceptual understandings of seasonal change.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association of Science Teacher Education, Friendship, OH.

*Wild, T. & **Trundle**, K. C. (2007, September). *Turkey talk: Teaching conservation to children with visual impairments.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association of Science Teacher Education, Ansted, WV.

*Adadan, E., **Trundle**, K. C., & Irving, K. (2005, October). *High school students' conceptual understandings of the particulate nature of matter through multiple representations.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association of Science Teacher Educators, Breaks, VA.

Trundle, K. C., Atwood, R. K. & Christopher, J. E. (2002, October). *A longitudinal study of preservice elementary teachers' conceptions of moon phases.* Paper presented at the annual meeting of the Mid-Atlantic Regional meeting of the Association for the Education of Teachers in Science, Natural Bridge, VA.

Christopher, J. E., Atwood, R. K., & **Trundle**, K. C. (2001, October). *Standards-based light concepts for middle school science: Are teachers adequately prepared?* Paper presented at the annual Mid-Atlantic Regional meeting of the Association for the Education of Teachers in Science, Ansted, WV.

*Sundberg, C. W., **Trundle**, K. C., *Accalogoun, L., Bland, J., Sunal, D. W., Sunal, C. S., & Giesen, J. L. (2001, October). *Assessing lesson plans with the learning*

cycle lesson plan rubric. Paper presented at the annual Mid-Atlantic Regional meeting of the Association for the Education of Teachers in Science, Ansted, WV.

Trundle, K. C., *Sundberg, C. W., Giesen, J. L., *Accalogoun, L., Sunal, D. W., *Ruchti, W., & Odell, M. R. (2001, October). *Using an online learning environment to develop science inquiry skills.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association for the Education of Teachers in Science, Ansted, WV.

*Staples, K. A., Sunal, D. W., Mays, A. M., Giesen, J. L., Sunal, C. S., Dwyer, W. M., *Sundberg, C., Wilson, L., & **Trundle**, K. C. (2000, October). *Teaching and learning online: A review of the research and data-supported best practices.* Paper presented at the annual Southeastern Regional meeting of the Association for the Education of Teachers in Science, Auburn, AL.

Atwood, R. K., Christopher, J. E., & **Trundle**, K. C. (2000, September). *Standards-based heat and temperature concepts.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association for the Education of Teachers in Science, Corbin, KY.

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2000, September). *Elementary preservice teachers' conceptual understandings of moon phases: A second look.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association for the Education of Teachers in Science, Corbin, KY.

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (1999, September). *Elementary preservice teachers' conceptual understandings of moon phases.* Paper presented at the annual Mid-Atlantic Regional meeting of the Association for the Education of Teachers in Science, Kingsport, TN.

State/Local: Invited

Trundle, K. C. (2022, April). *First impressions matter: Preparing and maintaining a competitive CV and coverletter.* Invited talk presented at the University of Georgia, Athens, GA.

Trundle, K. C. (2021, April). *Gaurdians of wonder: Exploring science with young children.* [Keynote address]. National Geographic Learning Professional Development Symposium. Oklahoma.

Trundle, K. C. (2018, September). *Common science misconceptions: Insights from education research.* Invited talk presented at Weber State University, Ogden, UT.

Trundle, K. C. (2014, June). *The higher education perspective on STEM Education.* Invited talk presented at the Fourth Congressional District STEM APP Challenge, Raleigh, NC.

Trundle, K. C. (2011, October). *The magnetic attraction of inquiry.* Invited talk presented at the Association of Independent Maryland Schools, Baltimore.

Trundle, K. C. (2011, May). *Science education research: Types, topics, methods, issues, and dissemination.* Invited talk presented the School of Geological Sciences, The Ohio State University, Columbus, OH.

Trundle, K. C. (2011, April). *The magnetic attraction of inquiry.* Invited talk presented at the Lutheran Schools Association Conference, New York City.

Trundle, K. C. (2010, October). *K-5 teaching strategies for the five E's of science: Building on teachers' strengths in literacy instruction.* Invited talk presented at Dayton Public Schools Challenger Center, Dayton, OH.

Trundle, K. C. (2010, September). *Early science experiences: Inquiry, children's literature, and misconceptions.* Invited talk presented for New York City Teachers, New York.

Trundle, K. C. & *Saçkes, M. (2008, September). *Science by the book: Using children's literature to teach science.* Invited talk presented at the Head Start Education Services Institute, Columbus, OH.

Trundle, K. C. (2006, February). *Fourth grade elementary students' conceptions of standards-based lunar concepts.* Invited talk presented at the Physics Education Research Group, Physics Department, The Ohio State University, Columbus, OH.

Trundle, K. C. (2005, October). *Look for the moon, reach for the stars!* Invited talk presented at the Ohio Department of Education Early Learning and School Readiness Conference, Columbus, OH.

Trundle, K. C., & Krissek, L. A. (2005, September). *Using multiple representations to train teachers to teach Earth science concepts.* Invited paper presented at the Centers of Excellence Symposium on Mathematics and Science Teaching and Learning, Akron, OH.

Trundle, K. C. (2005, February). *Conceptions about standards-based lunar concepts.* Invited paper presented at the Carnegie Initiative for the Doctorate Seminar, The Ohio State University, Columbus, OH.

Trundle, K. C., Krissek, L. A., & *Uçar, S. (2005, January) *Training teachers to teach standards-based earth science concepts.* Invited paper presented at the Carnegie Initiative for the Doctorate Seminar, The Ohio State University, Columbus, OH.

Trundle, K. C. (2003, April). *Navigate your way through the science standards: The magnetic attraction of effective science teaching.* Featured presentation at the annual meeting of the Ohio Association of Administrators of State and Federal Education Programs, Columbus, OH.

Trundle, K. C. (2003, April). *Don't let your mouse get trapped: Finding electronic resources for effective science teaching through the Ohio Resource Center.* Featured presentation at the annual meeting of the Ohio Association of Administrators of State and Federal Education Programs, Columbus, OH.

State/Local: Peer-reviewed

Trundle, K. C. (2010, October). *Tiny bubbles: A big solution to inquiry troubles*. Paper presented at the Florida Association of Science Teachers, St Augustine, FL.

Martin, R. E., & **Trundle**, K. C. (2003, February). *The Ohio Resource Center.* Paper presented at the annual meeting of the Science Education Council of Ohio, Dayton, OH.

Christopher, J. E., Atwood, R. K., & **Trundle**, K. C. (2001, November). *Standard-based light concepts for middle school science: Have we adequately prepared teachers?* Paper presented at the joint meeting of the Kentucky Academy of Science and the Tennessee Academy of Science, Murpheesboro, TN.

Christopher, J. E., Atwood, R. K., & **Trundle**, K. C. (2001, Spring). *Have we adequately helped middle school teachers prepare to teach heat and temperature concepts?* Paper presented at the annual meeting of the Kentucky Association of Physics Teachers, Lexington, KY.

Trundle, K. C. (2001, October). *The Ohio Resource Center: Science resources for parents.* Presentation for the Ohio Parent Teacher Association Conference, Columbus, OH.

Trundle, K. C. (2001, October). *Using the Ohio Resource Center in teacher education programs.* Presentation for the Ohio Confederation of Teacher Education Organizations Conference, Columbus, OH.

Trundle, K. C. (2001, September). *The Ohio Resource Center: Science resources for supervisors and teachers.* Presentation for the Ohio SSA Conference, Columbus, OH.

Trundle, K. C. (2001, June). *Kentucky Virtual High School: A model of online course development.* Paper presented at the Alabama Educational Technology Conference, Birmingham, AL.

Atwood, R. K., Christopher, J. E., & **Trundle**, K. C. (2001, March). *Have we adequately helped middle school teachers become prepared to teach heat and temperature concepts?* Paper presented at the annual meeting of the Kentucky Association of Physics Teachers, Paducah, KY.

Trundle, K. C., Atwood, R. K., & Christopher, J. E. (2000, December). *Elementary preservice teachers' conceptual understandings of moon phases.* Paper presented at the annual meeting of the Kentucky Academy of Science, Lexington, KY.

Trundle, K. C. (2000, June). *Best practice: Inquiry-based science teaching.* Paper presented at the annual meeting of the Star Teacher Leadership Academy, Lexington, KY.

Troland, T. H., & **Trundle**, K. C. (2000, March). *Lives of the stars.* Paper presented at the annual meeting of the Kentucky Teaching and Learning Conference, Louisville, KY.

Trundle, K. C., & Kidwell, K. (2000, March). *Blooming flowers, blossoming minds: Using critical thinking skills to teach science.* Paper presented at the annual meeting of the Kentucky Teaching and Learning Conference, Louisville, KY.

Trundle, K. C. (1999, November). *Crosswalk: Changes in the Kentucky Core Content for Science Assessment.* Paper presented at the annual meeting of the Kentucky Association of Science Teachers, Lexington, KY.

Trundle, K. C. (1999, October). *Development and evaluation of a standards-based physics course for preservice elementary teachers.* Paper presented at the Community of Inquiry Colloquium, Lexington, KY.

Creative Works

Trundle, K. C. (2009). *Pizza Science Activity Guide for Science Kit, Science Section*. Elmers: Columbus, OH.

Trundle, K. C. (2009). *S'mores on a Stick Science Activity Guide for Science Kit, Science Section.* Elmers: Columbus, OH.

Trundle, K. C. (2009). *Bubble Science Kit*. Elmers: Columbus, OH.

Service

National/International

Guest Editor for Journal

Journal of Childhood, Education & Society, 2020-2021

Associate Editor for Journals

Electronic Journal for Research in Science & Mathematics Education, 2021-present

Journal of Science Teacher Education, 2015-2019

Editorial Review Board Member for Journals

Journal of Childhood, Education & Society, 2019-present

Journal of Research in Science Teaching, 2011-2014

Early Childhood Research and Practice, 2012-present

Contemporary Issues in Technology and Teacher Education, 2007-2011

Journal of Science Teacher Education, 2006-2011

Reviewer for Journals

Journal of Research in Science Teaching, Reviewer, 2003-2011, 2014-present

International Journal of Science Education, Reviewer, 2005-present

Science Education, Reviewer, 2006-present

Astronomy Education Review, Reviewer, 2009-present

Computers and Education, Reviewer, 2010-present

Journal of Elementary Science Education, Reviewer, 2006

Journal of Literacy Research, Guest Reviewer, 2010

Reading Research Quarterly, Guest Reviewer, 2009

Elementary School Journal, Reviewer, 2009

Journal of Science Teacher Education, Guest Reviewer, 2005-2006

Journal of Science Education for Students with Disabilities, Reviewer, 2004

Electronic Journal of Science Education, Reviewer, 2003

Leadership for the Association for Science Teacher Education

Chairperson, 2023 Annual International Meeting, Salt Lake City, 2018-2023 (Appointed)

Past President, 2014 (Elected)

President, 2013 (Elected)

President Elect, 2012 (Elected)

Member, Executive Committee, 2011-2014 (Elected)

Member, International Board of Directors, 2009-2014 (Elected)

Chairperson, Publications Committee, 2010-2012 (Appointed)

Chairperson, Editor Search Committee, 2011-2012 (Appointed)

Chairperson, Committee on Regional Units, 2011-2012 (Appointed)

Chairperson, Editor Search Committees (2) , 2009-2010 (Appointed)

Co-Chairperson, Publications Committee, 2009-2010 (Appointed)

Chairperson, Elections Committee, 2008-2009 (Elected)

Member, Elections Committee, 2007-2009 (Elected)

Chairperson, 2008 International Conference Program, 2006-2008

Co-Chairperson, 2008 International Conference, 2006-2008

Member, Long-Range Conference Committee, 2006-2009 (Appointed)

Member, Awards Committee, 2004-2007 (Appointed)

Member, International Board of Directors, 2000-2001 (Elected)

Program Chairperson 2002 Annual International Meeting, 2001-2002 (Appointed)

Leadership for the Council of Scientific Society Presidents

Member, Executive Board, 2013 (Elected)

Leadership for the National Association for Research in Science Teaching

Member, Early Career Research Award Committee, 2008-2011 (Appointed)

Chairperson, Outstanding Paper Award Committee, 2005-2006 (Appointed)

Co-Chairperson, Outstanding Paper Award Committee, 2004-2005 (Appointed)

Member, Awards Committee, 2004-2006 (Appointed)

Member, Outstanding Paper Award Committee, 2003-2006 (Appointed)

Strand Coordinator for Program Committee, 2001-2005 (Appointed)

Leadership for the School Science and Mathematics Association

Member, Program Committee, 2003 (Appointed)

Member, Membership Committee , 2003-2006 (Appointed)

Member, Proposal Review Committee, 2004

Regional

Leadership for the Association for Science Teacher Education

Regional Director, Mid-Atlantic Region, 2008-2012 (Elected)

Regional Director, Mid-Atlantic Region, 2000-2001 (Elected)

Program Chairperson Annual Mid-Atlantic Regional Meeting, 1999-2000

State

Member, Early Childhood Science Model Curriculum Review Committee, Ohio Department of Education, 2010-2011

Member, Science Content Standards Revision Committee, Ohio Department of Education, 2009

Primary Developer, Phase 2 Science Professional Development Modules for Preschool Teachers and Daycare Workers, Ohio Department of Education, 2009

Primary Developer, Science Professional Development Modules for Preschool Teachers and Daycare Workers, Ohio Department of Education, 2004-2007

University and College

Ombudsperson, Tenure Advisory Committee, Aryn Dotterer, Department of Human Development and Family Studies, 2022

Ombudsperson, Tenure Advisory Committee, Stephen Kwiatek, Department of Special Education & Rehabilitation Counseling, 2022

Member, Tenure Advisory Committee, Sophia D'Agostino, Special Education and Rehabilitation, 2021-present

Chairperson, Edith Bowen Laboratory School, Executive Board, 2018-2020

Member, USU Strategic Enrollment Management Planning (SEMP) Committee (2019-2020)

Member, USU Sophomore Success Committee (2019-2020)

Member, Department Head Search Committee, NC State University 2017

Member, Global Coordinator Search Committee, NC State University 2017

Member, Communications Director Search Committee, NC State University 2016

Co-Chair, Leadership in Public Science Cluster Hire Search Committee, NC State University 2015-16

Co-Chair, Summit on Poverty, NC State University 2015-16

Member, Business Advisory Board, Wake NC State STEM Early College High School

Faculty Lead, Collaboration with The Science & Technology Museum of Hubei Province, China, China Gateway, The Ohio State University, 2012-2013

Member, Board of Mentors, Eminence Fellows Program, Kuhn Honors & Scholars Center, The Ohio State University, 2012-2013

Member, Institutional Review Board (IRB), The Ohio State University, Office of Responsible Research Practices (ORRP), 2004-2013

Reviewer Expedited Proposals, Institutional Review Board (IRB), The Ohio State University, Office of Responsible Research Practices (ORRP), 2007-2013

Member, College Council, 2011-2012

Member, Woodrow Wilson Ohio Teaching Fellowship Program Advisory Committee, 2010-2013

Graduate Faculty Representative, The Ohio State University, Graduate School, 2004-2013

Member, Dean's Taskforce for College Restructuring, 2011

Member, Woodrow Wilson Teaching Fellowship Program Advisory Board, 2010-2011

Member, Curriculum Committee, College of Education, 2004-2006

Faculty Leader, Ohio Department of Education program alignment for Early and Middle Childhood Science Education, 2003-2005

School/Department

Member, Business Manager Search Committee, 2022

Chairperson, Tenure Advisory Committee, Rachel Turner, 2020-present

Member, Instructional Leadership Faculty Search Committee, 2021-2022

Faculty Lead, Master's of Arts Program, 2010-2011

Member, Graduate Studies Committee, 2004-2006 and 2010-2011

Faculty Coordinator, Petition Reviews for Early and Middle Childhood Education Science, 2004-2013

Faculty Lead, Early Childhood Education M.Ed. Program, 2008-2010

Member, Scholarship and Fellowship Committee, 2003-2004, 2010-2011

Member, Early Childhood Admissions Committee, 2003-2004, 2007-2011

Reviewer, PhD Admissions, 2007-2011

Faculty Advisor, 8 Milestone Projects for ECE MEd students, 2009-2011

Faculty Evaluator, ECE MEd Milestone Presentations, 2007-2011

Faculty Coordinator, OSU ECE MEd Pilot of the Teacher Performance Assessment (TPA) 2010-2011

Faculty Evaluator, ECE MEd Capstone Presentations, 2004-2008

Member, Search Committee Science Education, 2007-2008

Member, Search Committee Science Education, Marion Campus, 2005-2006

Member, Search Committee Mathematics Education, Marion Campus, 2005-2006

Member, Search Committee Literacy Education, Marion Campus, 2005-2006

Member, Search Committee American Sign Language, 2005-2006

Member, Search Committee Science Education Mansfield Campus, 2005-2006

Member, Search Committee Science Education Mansfield Campus, 2004-2005

Member, Search Committee Science Education, 2003-2004

Member, Middle Childhood Admissions Committee, 2003

Other Professional/Public Service

Member, Project PLANET Advisory Board, Astronomical Society of the Pacific, 2018-Present

Member, Primrose Early Learning Council, 2016-Present

Advisor, The Fred Rogers Company, 2015

External Examiner, Dissertation, University of the Witwatersrand, Johannesburg, South Africa, 2011

External Evaluator, Promotion and Tenure Committee, Indiana University, 2011, 2018

Provider, Teacher Professional Development, New York City Schools, 2011

Provider, Teacher Professional Development, New York City Schools, 2010

External Evaluator, Project Mastery, National Alternate Assessment Center, University of North Carolina, 2008

Provider, Teacher Professional Development, Head Start Education Services Institute, 2008

Provider, Teacher Professional Development, Knowles Science Teaching Foundation, 2008

Provider, Teacher Professional Development, Knowles Science Teaching Foundation, 2007

Ohio State University Representative, Bexley Education Foundation Educator of the Year Selection Committee, 2005

External Evaluator, Making Science Right, Institute for Applied and Professional Ethics, Ohio University, 2002

Ohio State University Science Representative, Battelle for Kids' - Journey Through Data

Guest Reader, Columbus Public Schools, 2002

State Representative for Ohio, State Collaborative on Assessment and Student Standards (SCASS), 2002

Provider, Teacher Professional Development, New Albany Schools, 2002

Provider, Teacher Professional Development, Shelby City Schools, 2001

Provider, Model Science Teaching, Englewood Elementary School, 2001

Coordinator, Oakdale Science Day, Oakdale Elementary School, 2001

Provider, Teacher Professional Development, Bibb County Schools, January and February 2001

Coordinator, Rockfest Science Festival, Rock Quarry Elementary School, 2000

Project Director, Kentucky Virtual High School: Course Development

University of Alabama Representative, Problem-Based Learning Conference, 2000

University of Alabama Representative, Southeast Student Teachers Are Revitalizing Teaching Through Technology

Advisory Board Member, Tennessee Earth Science Teachers

Vice President, Delta Kappa Gamma Society International

Recording Secretary, Delta Kappa Gamma Society International

Member, Steering and Evaluation Committees, Kentucky Science Academies

Member, Evaluation Committee, Challenger Learning Center of Kentucky

Member, Revision Committee, Science Core Content for Assessment

Member, Science Committee for Kentucky Department of Education. (1998). *Implementation manual for the program of studies: Elementary school.* Frankfort, KY: Author.

Member, Science Committee for Kentucky Department of Education. (1998). *Implementation manual for the program of studies: Middle school.* Frankfort, KY: Author.

Member, Science Committee for Kentucky Department of Education. (1998). *Implementation manual for the program of studies: High school.* Frankfort, KY: Author.

Honors

Outstanding Longtime Service to ASTE, 2023

Fulbright Specialist, 2013, Indonesia

Fulbright Specialist, 2012, Indonesia

Outstanding Science Teacher Educator of the Year, Association for Science Teacher Education (Early Career), 2008

Merit Review, Superior Merit and Dean's Merit: University of Alabama, 2000-2001

Outstanding Graduate Student, Curriculum and Instruction: University of Tennessee, 1999

Leadership Education Award: Greater Knoxville Chamber of Commerce, 1994-1995

Delta Kappa Gamma Society International Graduate Scholarship, 1994

Stokely Institute Fellow: University of Tennessee, 1990

H. G. Loy Teacher of the Year Award, 1989

Dean Stout Award for Excellence in Science Teaching, 1987

Activities

Visiting Scholar, Oregon State University, Corvallis, Oregon, 2013

Visiting Scholar, Boğaziçi University, Istanbul, Turkey. 2012

Visiting Scholar, Çukurova University, Adana, Turkey, 2012

Consultant, Primrose Schools, 2014-Present

Author, National Geographic Learning, 2009-Present