

Lisa O. Brown

Assistant Professor
Department of Curriculum and Instruction
College of Education
Sam Houston State University
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Degrees Earned

EdD Oklahoma State University, 2011, Stillwater, Oklahoma

MEd University of Houston, 2001, Houston, Texas

BS Texas A&M University, 1993, College Station, Texas

Professional Licensure and Certifications

Texas Certification for Teaching Secondary Science Composite, Grades 6 – 12

Publications: Tier, 1, 2, and 3 Articles

Collins, A.G., Brown, L.O., Maninger, R.M., Sullivan, S. (2106) Role of social media in the hiring process of public school professionals. *International Journal of Education and Human Developments*. (2)6. Retrieved from <http://ijehd.cgrd.org/images/vol2no6/9.pdf>

Wentworth, R. & Brown, L.O. (2015) Deepening our students' appreciation of others: using multicultural field experience in an online education course. *Literacy Information and Computer Education Journal*. Retrieved from <http://infonomics-society.ie/wp-content/uploads/licej/published-papers/volume-6-2015/Deepening-Our-Students-Appreciation-of-Others-Using-Multicultural-Field-Experience-in-an-Online-Education-Course.pdf>

Brown, L.O., Koptelov, A.V. (2014). Integrating technology for teacher preparation. *Koncept*, 6. Retrieved from <http://e-koncept.ru/2014/14578.htm?>

Moseley, C. & Brown, L.O. (2013). Impact of participation in NASA's Digital Learning Network on science attitudes of rural, mid-level students. *Electronic Journal of Science Education*. (17)3.

Book Chapters

Brown, L.O., Foster, A., Polnick, B. (2107) Breaking barriers: Inspiring stories about NASA women of color. In J. Ballenger (Ed.), *Women of color: Navigating the double bind in the workforce*.

Research Monographs and Technical Reports

Moseley, C., & Brown, L.O. (Eds). (2015). Texas certified environmental educator application guidelines. Texas Association for Environmental Education

Brown, L., Foster, A. & Gillespie, M. (2014). SHSU 8-12 Science Specialty Professional Association (SPA), report submitted to the National Council for the Accreditation of Teacher Education (NCATE) to fulfill accreditation requirements receiving RECOGNIZED status.

Newsletters

Brown, L.O., & Vural, L. (Eds). (2016, April). *Skyward – aerospace education newsletter. Civil Air Patrol – Texas Wing.*

Brown, L.O., & Vural, L. (Eds). (2016, February). *Skyward – aerospace education newsletter. Civil Air Patrol – Texas Wing.*

Brown, L.O., & Vural, L. (Eds). (2015, December). *Skyward – aerospace education newsletter. Civil Air Patrol – Texas Wing.*

Brown, L.O., & Vural, L. (Eds). (2015, July). *Skyward – aerospace education newsletter. Civil Air Patrol – Texas Wing.*

Brown, L.O., & Vural, L. (Eds). (2015, March). *Skyward – aerospace education newsletter. Civil Air Patrol – Texas Wing.*

Funded External Grants

Creggan, F., & Brown, L.O., *Primary Sources in the Forefront of Learning*. Library of Congress Teaching with Primary Sources. \$20,000.00

Brown, L.O. (2015, November). *Aerospace Education*. Air. George Bush Foundation Community Grant. \$2000.00

Brown, L.O. (2015, September). North American Association for Environmental Education, *EE Capacity Certification*, funded - \$3,000.

Brown, L.O. (2014, August). *Astronomy*. Air Force STEM Outreach Coordination Office STEM. \$500

Brown, L.O. (2014, March). *Radio control aircraft*. Air Force STEM Outreach Coordination Office STEM. \$500.00.

Brown, L.O. (2013, March). *Robotics*. Air Force STEM Outreach Coordination Office STEM. \$500.00.

Creative Accomplishments

Brown, L.O., (2015). Texas certified environmental educator application. Texas Association for Environmental Education.

National Aeronautics and Space Administration (NASA). (2007). *Barbara Morgan educator astronaut poster*. (NASA Publication No. NW-2007-03-176-HQ). Washington, DC: U.S. Government Printing Office.

Peer-Review Paper presentations

National/International

- Brown, L.O. (2016, October). *Breaking Barriers at NASA: Inspiring Stories about Women of Color*. Ireland International Conference on Education. Dublin, Ireland.
- Wentworth, R & Brown, L.O. (2015, April). *From Content coverage to guiding learning: The impact of academic community engagement on secondary teaching candidates*. Ireland International Conference on Education. Dublin, Ireland.
- Brown, L.O. (April, 2015.) *Networking in aerospace education*. National Space Symposium, Colorado Springs, CO. (invited)
- Brown, L.O. (2013, December). *Putting the "T" in STEM*. National Science Teacher Association National Conference. Denver, Colorado.
- Brown, L.O. (2013, December). *Can a shoebox fly?*. National Science Teacher Association National Conference. Denver, Colorado.
- Brown, L.O. & Moseley, C. (2013, November). *Can a shoebox fly? Engineering challenge*. School Science and Mathematics Association. San Antonio, TX.
- Brown, L.O. (2013, April). *Networking in aerospace education*. National Space Symposium, Colorado Springs, CO. (invited)
- Brown, L.O. (2011, March). *NASA in your classroom*. National Science Teachers Association National Conference. San Francisco, California.
- Brown, L.O. (2011, February). *The air we breathe*. Space Exploration Educator Conference. Houston, Texas.
- Brown, L.O. (2010, February). *Expedition earth and beyond*. Space Exploration Educator Conference. Houston, Texas.
- Brown, L.O. (2011, February). *An inquiry tour through the solar system*. Space Exploration Educator Conference. Houston, Texas.
- Varner, R., & Brown, L.O. (2010, October). *NASA's Aerospace Education Services Project in your school*. Association for Supervision and Curriculum Annual Conference. San Antonio, Texas.
- Brown, L.O. (2009, October). *Train like an astronaut*. National Association of Biology Teachers Conference. Denver, Colorado.
- Brown, L.O. (2009, October). *Train like an astronaut*. National Association of Biology Teachers Conference. Memphis, Tennessee.
- Brown, L.O. (2008, October). *Filtration design challenge*. National Association of Biology Teachers Conference. Memphis, Tennessee.
- Brown, L.O. (2008, February). *Water filtration design challenge*. Space Exploration Educators Conference. Houston, Texas.

Brown, L.O. (2007, February). *How do I get bottled water on Mars?*. Space Exploration Educators Conference. Houston, Texas.

Brown, L.O. (2007, February). *Engineering your way to the moon, Mars, and beyond*. Space Exploration Educators Conference. Houston, Texas.

Regional/State

Brown, L.O. & Creghan, F. (2015, November). *TESTA presents: Survivor: Earth*. Conference for the Advancement of Science Teaching. San Antonio, Texas.

Brown, L.O. & Creghan, F. (2015, November). *TESTA presents: Lunacy Fun*. Conference for the Advancement of Science Teaching. Dallas, Texas.

Lamdolt, R., Nielsen-Gammon, J., Brown, L., Wall, S. (2015, November). *Climate change: Interdisciplinary, immature, controversial, and crucial. Expert Panel*. Conference for the advancement of science teaching, Dallas, TX. (invited)

Eidson, K., Taube, S., & Brown, L.O. (2015, October). *Telling the study abroad story digitally: Using technology to enhance learning outcomes*. The Consortium of State Organizations for Texas Teacher Education. Dallas, Texas.

Brown, L.O. & Creghan, F. (2014, November). *TESTA presents: Lunacy Fun*. Conference for the Advancement of Science Teaching. Dallas, Texas.

Brown, L.O. & Creghan, F. (2014, November). *Technology and the 5E*. Conference for the Advancement of Science Teaching. Dallas, Texas.

Brown, L.O. (2014, April). *Mass vs. weight: A heavy-duty concept*. Civil Air Patrol Texas Wing Annual Conference. Houston, Texas.

Brown, L.O. & Foster, A.S. (2012, November). *To the moon, the staar, and beyond*. Conference for the Advancement of Science Teaching. Corpus Christi, Texas. (2 sessions)

Brown, L.O. & Nickson, L.M. (2012, November). *Mass vs. weight: A heavy-duty concept*. Conference for the Advancement of Science Teaching. Corpus Christi, Texas. (short course session)

Brown, L.O. & Nickson, L.M. (2012, November). *Putting the t in stem – 5E and technology*. Conference for the Advancement of Science Teaching. Corpus Christi, Texas.

Brown, L.O. (2012, August). *Expedition earth and beyond*. Civil Air Patrol Aerospace Education Workshop. Bryan, TX. (Invited)

Brown, L.O. (2012, August). *Shoebox challenge*. Civil Air Patrol Aerospace Education Workshop. Bryan, TX.

(Invited)

Brown, L.O. (2012, August). *Train like an astronaut*. Civil Air Patrol Aerospace Education Workshop. Bryan, TX. (Invited)

Brown, L.O. (2012, August). *Rocketry*. Civil Air Patrol Aerospace Education Workshop. Bryan, TX. (Invited)

Brown, L.O. (2012, July). *The wonderful world of water*. 9th Annual Summer Water Conference for Educators. San Antonio, TX. (Invited)

Brown, L.O. (2012, July). *NASA resources you can use*. Kaleidoscope Homeschool Conference. College Station, TX. (Invited)

Brown, L.O. (2011, December). *Expedition earth and beyond- A PBL*. Texas Association for the Gifted and Talented Annual Conference. Austin, TX.

Brown, L.O. (2011, November). *Mass vs. weight – A heavy-duty concept*. Conference for the Advancement of Science Teaching Annual Conference. Dallas, TX.

Brown, L.O. (2011, November). *DIY podcasting*. Conference for the Advancement of Science Teaching Annual Conference. Dallas, TX.

Brown, L.O. (2011, November). *Inquiry tour through the solar system*. National Science Teachers Association Regional Conference on Science Education. New Orleans, LA.

Brown, L.O. (2011, September). *Caching through the water cycle*. Texas Association for Environmental Education Annual Conference. Navasota, Texas.

Brown, L.O. (2011, September). *Why is the city so hot?*. Texas Association for Environmental Education Annual Conference. Navasota, Texas.

Brown, L.O. (2011, April). *Why is the city so hot?*, Colorado Conference on Environmental Education. Boulder, Colorado.

Brown, L.O. (2011, April). *Mass vs. weight*. North Dakota Council of Teachers of Mathematics. Jamestown, North Dakota.

Brown, L.O. (2011, February). *Expedition earth and beyond*. North Dakota Science Teachers Annual Conference. Bismarck, North Dakota.

Brown, L.O. (2011, January). *Expedition earth and beyond*. STEM 2011- Annual Conference. Austin, Texas.

Brown, L.O. (2010, November). *Space math @ NASA*. National Council of Teachers of Mathematics Regional Conference. Denver, Colorado.

Brown, L.O. (2010, October). *Shapes from space*. Regional Conference for the Advancement of Mathematics Teaching conference. San Antonio, TX.

Brown, L.O. (2010, October). *Soaring through the solar system*. Colorado Association of Science Teachers

Annual conference. Denver, Colorado.

- Brown, L.O. (2010, January). *NASA education: explore, discover, and understand*. Texas Regional Collaboratives Annual Meeting. Austin, Texas.
- Brown, L.O. (2010, March). *Space math*. North Dakota Council of Teachers of Mathematics. Minot, North Dakota.
- Brown, L.O. (2010, March). *Shapes from space*. North Dakota Council of Teachers of Mathematics. Minot, North Dakota.
- Brown, L.O. (2010, March). *Size and scale of the solar system*. North Dakota Council of Teachers of Mathematics. Minot, North Dakota.
- Brown, L.O. (2010, February). *Just how big is the solar system?*. North Dakota Science Teachers Annual Conference. Bismarck, North Dakota.
- Brown, L.O. (2010, February). *Field trip to the moon*. North Dakota Science Teachers Annual Conference. Bismarck, North Dakota.
- Brown, L.O. (2010, February). *Strange New Planet*. North Dakota Science Teachers Annual Conference. Bismarck, North Dakota.
- Brown, L.O. (2010, February). *Rock 'n' roll with NASA*. North Dakota Science Teachers Annual Conference. Bismarck, North Dakota.
- Brown, L.O. (2008, September). *NASA resources*. Association for Environmental Education Conference. Lake Travis, Texas.
- Brown, L.O. (2008, March). *Aeronautics activities*. North Dakota Science Teachers Annual Conference. Minot, North Dakota.
- Brown, L.O. (2007, November). *Physiological effects of microgravity*. National Science Teachers Association Regional Conference. Denver, Colorado.
- Brown, L.O. (2007, November). *Engineering your way to the moon*. National Science Teachers Association Regional Conference. Denver, Colorado.
- Brown, L.O. (2007, November). *Water filtration design challenge*. National Science Teachers Association Regional Conference. Denver, Colorado.
- Brown, L.O. (2007, November). *Learning to fly*. Colorado Council of Teachers of Mathematics Regional Conference, Denver, Colorado.
- Ogle, L.R. (2006, November). *Weightless watchers*. Conference for the Advancement of Science Teaching, Wichita Falls, Texas.
- Ogle, L.R. (2006, November). *Mission to Mars*. Conference for the Advancement of Science Teaching,

Wichita Falls, Texas.

Ogle, L.R. (2006, November). *Learning to fly*. Conference for the Advancement of Science Teaching, Wichita Falls, Texas.

Ogle, L.R. (2006, March). *Mission mathematics*. North Dakota Math Teachers Spring Conference. Bismarck, North Dakota.

Ogle, L.R. (2006, March). *Mission to the red planet*. North Dakota Math Teachers Spring Conference. Bismarck, North Dakota.

Ogle, L.R. (2006, March). *NASA resources in the classroom*. North Dakota Math Teachers Spring Conference. Bismarck, North Dakota.

Ogle, L.R. (2005, April). *Marsbound*. Utah Council of Math Teachers -Consortium for Mathematics Educational Enhancement. Salt Lake City, Utah.

Ogle, L.R. (2005, April). *Space Physiology*. Wyoming Math and Science Teachers Conference. Casper, WY.

Ogle, L.R. (2005, January). *Astrobiology*. Utah Science Teachers Association Mid-Winter Conference. Layton, Utah.

Ogle, L.R. (2003, April). *Up, up, and away*. Curriculum Integration Conference. Houston, Texas.

Ogle, L.R. (2003, November). *Energy & society*. Conference for the Advancement of Science Teaching. Houston, Texas.

Non-Peer-Review Works

Non-Peer-Review Invited Paper presentations

National/International

Brown, L.O. (2011, July). *Living and working in space*. NASA Pre-Service Teacher Institute. Johnson Space Center. Houston, Texas.

Brown, L.O. (2011, July). *Living and working in space*. NASA Pre-Service Teacher Institute, Johnson Space Center. Houston, Texas.

Brown, L.O. (2011, July). *Podcasting and vodcasting in the classroom*. Space Foundation Discovery Institute. Colorado Springs, Colorado.

Brown, L.O. (2011, July). *Geocaching in the classroom*. Space Foundation Discovery Institute. Colorado Springs, Colorado.

Brown, L.O. (2011, September). *Living and working in space*. Hispanic Engineering, Science and Technology Conference. University of Texas – Pan American, College of Engineering. Edinburg, Texas.

Brown, L.O. (2011, April). *Reading, writing, and rings*. Space Foundation National Space Symposium Teacher

Liaison Workshop. Colorado Springs, Colorado.

- Brown, L.O. (2010, April). *Expedition earth and beyond*. Space Foundation National Space Symposium Teacher Liaison Workshop. Colorado Springs, Colorado. (Keynote)
- Brown, L.O. (2010, June). *Living and working in space*. NASA Pre-Service Teacher Institute. Johnson Space Center. Houston, Texas.
- Brown, L.O. (2009, June). *Size and scale of the solar system*. NASA Explorer School Math Institute. Johnson Space Center, Houston, Texas.
- Brown, L.O. (2010, September). *Expedition earth and beyond*. Hispanic Engineering, Science and Technology Educator Day Workshop. University of Texas – Pan American, College of Engineering. Edinburg, Texas.
- Brown, L.O. (2009, June). *Rocketry*. NASA Pre-Service Teacher Institute. Johnson Space Center. Houston, Texas.
- Brown, L.O. (2009, June). *Living and working in space*. NASA Pre-Service Teacher Institute. Johnson Space Center. Houston, Texas.
- Brown, L.O. (2008, July). *Biological effects of space flight on the human body*. Space Foundation Discovery Institute. Colorado Springs, Colorado.
- Brown, L.O. (2008, July). *Plant growth chamber engineering design challenge*. Space Foundation Discovery Institute. Colorado Springs, Colorado.
- Brown, L.O. (2008, July). *Water filtration engineering design challenge*. Space Foundation Discovery Institute. Colorado Springs, Colorado.
- Brown, L.O. (2008, July). *Space suits*. Space Foundation Discovery Institute. Colorado Springs, Colorado.
- Brown, L.O. (2008, July). *Thermal protection systems engineering design challenge*. Space Foundation Discovery Institute. Colorado Springs, Colorado.
- Brown, L.O. (2008, July). *Pseudoscience activities*. Invited presentation at the Space Foundation Discovery Institute, Colorado Springs, Colorado.
- Brown, L.O. (2008, July). *Neurovestibular effects of space flight*. Space Foundation Discovery Institute. Colorado Springs, Colorado.
- Brown, L.O. (2008, July). *Space food and nutrition*. Space Foundation Discovery Institute. Colorado Springs, Colorado.
- Brown, L.O. (2007, April). *Engineering your way to the moon, Mars, and beyond*. Space Foundation National Space Symposium Teacher Liaison Workshop. Colorado Springs, Colorado. (Keynote)
- Brown, L.O. (2006, July). *Living and working in a microgravity environment*. Space Foundation Biological and Physiological Research Teacher Workshop. Colorado Springs, Colorado.

- Brown, L.O. (2006, July). *Human physiological adaptation to space flight*. Space Foundation Biological and Physiological Research Teacher Workshop. Colorado Springs, Colorado.
- Brown, L.O. (2006, July). *Thermal protection systems engineering design challenge*. Space Foundation Biological and Physiological Research Teacher Workshop. Colorado Springs, Colorado.
- Brown, L.O. (2006, July). *Search for extraterrestrial intelligence (SETI)*. Space Foundation Biological and Physiological Research Teacher Workshop. Colorado Springs, Colorado.
- Brown, L.O. (2006, June). *Explore the moon and Mars*. NASA Middle School Aerospace Scholars Project. Johnson Space Center. Houston, Texas.
- Brown, L.O. (2006, June). *3,2,1 liftoff*. Invited presentation at the NASA Pre-Service Teacher Institute. Johnson Space Center. Houston, Texas.
- Brown, L.O. (2006, June). *Moon, Mars, and beyond*. NASA Pre-Service Teacher Institute. Johnson Space Center. Houston, Texas.
- Brown, L.O. (2006, June). *Engineering design challenge*. NASA Community College Aerospace Scholars Project. Johnson Space Center, Houston, Texas.

State

- Brown, L.O. (2015, July). *Size and scale of Earth/Moon*. Lake Houston Science Collaborative Summer Institute. Kingwood, Texas.
- Brown, L.O. (2015, July). *All things lunar*. Lake Houston Science Collaborative Summer Institute. Kingwood, Texas.
- Brown, L.O. (2015, July). *Mapping the moon*. Lake Houston Science Collaborative Summer Institute. Kingwood, Texas.
- Brown, L.O. (2015, July). *Moon math*. Lake Houston Science Collaborative Summer Institute. Kingwood, Texas.
- Brown, L.O. (2015, July). *Lunar rock identification*. Lake Houston Science Collaborative Summer Institute. Kingwood, Texas.
- Brown, L.O. (2015, July). *Field trip to the moon*. Lake Houston Science Collaborative Summer Institute. Kingwood, Texas.
- Brown, L.O. (2015, July). *Expedition Earth and beyond*. Lake Houston Science Collaborative Summer Institute. Kingwood, Texas.
- Brown, L.O. (2011, October). *Reading, writing, and rings*. Dickinson State University College of Education. Dickinson, North Dakota.
- Brown, L.O. (2011, October). *Strange new planet*. Dickinson State University College of Education, Dickinson, North Dakota.

- Brown, L.O. (2011, September). *Strange new planet*. Texas A&M University College of Education. College Station, Texas.
- Brown, L.O. (2011, June). *Self-healing materials*. North Dakota State College STEM Teacher Workshop. Fargo, North Dakota.
- Brown, L.O. (2011, June). *Earth and space science*. Valley City Area Teacher Workshop. Valley City, North Dakota.
- Brown, L.O. (2011, June). *Expedition earth and beyond*. Texas A&M University Aggie-STEM Teacher Workshop. Houston, Texas.
- Brown, L.O. (2011, June). *Can a shoebox fly? Engineering design challenge*. Texas A&M University Aggie-STEM Teacher Workshop. Houston, Texas.
- Brown, L.O. (2011, March). *Expedition earth and beyond*. Charlotte Area School Districts 3rd Annual NASA STEM Workshop. Charlotte, North Carolina.
- Brown, L.O. (2011, March). *3,2,1 liftoff*. Charlotte Area School Districts 3rd Annual NASA STEM Workshop. Charlotte, North Carolina.
- Brown, L.O. (2011, March). *Science and math connections to literacy*. Charlotte Area School Districts 3rd Annual NASA STEM Workshop. Charlotte, North Carolina.
- Brown, L.O. (2011, March). *Expedition earth and beyond*. STEM In-service and Pre-service Teacher Workshop. University of Texas – San Antonio, College of Education. San Antonio, Texas.
- Brown, L.O. (2010, October). *Field trip to the moon*. Pre-Service Teacher Workshop. Texas A&M University – Commerce, College of Education. Commerce, Texas.
- Brown, L.O. (2010, October). *Living and working in space*. Pre-Service Teacher Workshop. Texas A&M University – Commerce, College of Education. Commerce, Texas.
- Brown, L.O. (2010, October). *International toys in space*. STEMsation Teacher Workshop. University of Texas – San Antonio, College of Education, San Antonio, Texas.
- Brown, L.O. (2010, October). *NASA in Your Classroom*. STEMsation Teacher Workshop. University of Texas – San Antonio, College of Education. San Antonio, Texas. (Keynote)
- Brown, L.O. (2010, September). *Solar system*. Pre-Service Teacher Workshop. University of Texas – Tyler, College of Education. Tyler, Texas.
- Brown, L.O. (2010, June). *Expedition earth and beyond*. New Mexico Space Grant Consortium STEM Teacher Workshop. Las Cruces, New Mexico.
- Brown, L.O. (2010, June). *Earth and space science*. Hays Independent School District Teacher Workshop. Buda, Texas.
- Brown, L.O. (2010, June). *Aeronautics and rocketry*. Texas Education Service Center Region 17. Lubbock, Texas.

- Brown, L.O. (2010, June). *Earth and space science*. Texas Education Service Center Region 17. Lubbock, Texas.
- Brown, L.O. (2010, March). *Expedition earth and beyond*. Pre-service Teacher Workshop. University of Texas – San Antonio, College of Education. San Antonio, Texas.
- Brown, L.O. (2010, March). *Mission geography*. Pre-service Teacher Workshop. University of Texas – San Antonio, College of Education, San Antonio, Texas.
- Brown, L.O. (2010, January). *Field trip to the moon*. Engineering Teacher Summit, Texas A&M University College of Engineering. College Station, Texas.
- Brown, L.O. (2009, October). *Field trip to the moon*. Denver Museum of Nature and Science Teacher Workshop. Denver, Colorado.
- Brown, L.O. (2009, June). *Earth and space science*. Hays Independent School District Teacher Workshop. Buda, Texas.
- Brown, L.O. (2009, February). *Water filtration engineering design challenge*. Gordon Cooper Technology Center Teacher Workshop. Shawnee, Oklahoma.
- Brown, L.O. (2009, February). *Planetary motion*. Gordon Cooper Technology Center Teacher Workshop. Shawnee, Oklahoma.
- Brown, L.O. (2009, February). *Aeronautics at NASA*. Stafford Air and Space Museum Teacher Workshop. Weatherford, Oklahoma.
- Brown, L.O. (2009, January). *Living and working in space*. Engineering Teacher Summit, Texas A&M University College of Engineering. College Station, Texas.
- Brown, L.O. (2008, October). *Lunar activities*. Stafford Air and Space Museum Teacher Workshop. Weatherford, Oklahoma.
- Brown, L.O. (2008, June). *Lunar and Meteorite Certification*. Rocky Mountain Space Grant Consortium Pathways to Mars Teacher Workshop. Challis, Idaho.
- Brown, L.O. (2008, June). *Solar System*. . Rocky Mountain Space Grant Consortium Pathways to Mars Teacher Workshop. Challis, Idaho.
- Brown, L.O. (2008, June). *Biological effects of space flight on the human body*. . Rocky Mountain Space Grant Consortium Pathways to Mars Teacher Workshop. Challis, Idaho.
- Brown, L.O. (2007, August). *Rocketry*. Gordon Cooper Technology Center Teacher Workshop. Shawnee, Oklahoma.
- Brown, L.O. (2007, August). *Mission mathematics*. Gordon Cooper Technology Center Teacher Workshop. Shawnee, Oklahoma.
- Brown, L.O. (2007, August). *International toys in space*. Gordon Cooper Technology Center Teacher

Workshop. Shawnee, Oklahoma.

- Brown, L.O. (2007, August). *Robotics*. Gordon Cooper Technology Center Teacher Workshop. Shawnee, Oklahoma.
- Brown, L.O. (2007, August). *Mission geography*. Gordon Cooper Technology Center Teacher Workshop. Shawnee, Oklahoma.
- Brown, L.O. (2007, July). *Lunar certification and solar system activities*. Fort Hays Teacher Workshop. Fort Hays University College of Education. Fort Hays, Kansas.
- Brown, L.O. (2007, July). *Hubble and dancing in the night sky*. Fort Hays Teacher Workshop. Fort Hays University College of Education. Fort Hays, Kansas.
- Brown, L.O. (2007, July). *Mission geography*. Fort Hays Teacher Workshop. Fort Hays University College of Education. Fort Hays, Kansas.
- Brown, L.O. (2007, July). *Astrobiology – What is life?*. Fort Hays Teacher Workshop, Fort Hays University College of Education. Fort Hays, Kansas.
- Brown, L.O. (2007, July). *Aeronautics – Mission mathematics*. Fort Hays Teacher Workshop. Fort Hays University College of Education. Fort Hays, Kansas.
- Brown, L.O. (2007, July). *Far Out Physiology*. Fort Hays Teacher Workshop. Fort Hays University College of Education. Fort Hays, Kansas.
- Brown, L.O. (2007, July). *NASA resources in your classroom*. Dr. Ronald McNair Educational Science Literacy Foundation (DREME) Teacher Workshop. Houston, Texas.
- Brown, L.O. (2007, July). *Mars exploration*. . Dr. Ronald McNair Educational Science Literacy Foundation (DREME) Teacher Workshop. Houston, Texas.
- Brown, L.O. (2007, July). *Rocketry*. Dr. Ronald McNair Educational Science Literacy Foundation (DREME) Teacher Workshop. Houston, Texas.
- Brown, L.O. (2007, June). *Lunar activities*. Texas Education Service Center Region 17. Lubbock, Texas.
- Brown, L.O. (2007, June). *Solar system activities*. Texas Education Service Center Region 17. Lubbock, Texas.
- Brown, L.O. (2007, June). *International toys in space*. Texas Education Service Center Region 17. Lubbock, Texas.
- Brown, L.O. (2007, June). *Mission geography*. Texas Education Service Center Region 17. Lubbock, Texas.
- Brown, L.O. (2006, July). *Rockets*. NASA Middle School Aerospace Academy. Johnson Space Center. Houston, Texas.
- Brown, L.O. (2006, July). *Robotics*. NASA Middle School Aerospace Academy, Johnson Space Center. Houston, Texas.

- Brown, L.O. (2006, July). *Living and working in a microgravity environment*. Dr. Ronald McNair Educational Science Literacy Foundation (DREME) Teacher Workshop. Houston, Texas.
- Brown, L.O. (2006, July). *Lunar and meteorite activities*. Dr. Ronald McNair Educational Science Literacy Foundation (DREME) Teacher Workshop. Houston, Texas.
- Ogle, L. R. (2005, October). *Solar system activities*. Pre-Service Science Teacher Workshop. Utah State University College of Education. Logan, Utah.
- Ogle, L. R. (2005, September). *Aeronautics*. Pre-Service Science Teacher Workshop. University of Wyoming College of Education. Laramie, Wyoming.
- Ogle, L. R. (2005, September). *Rocketry*. Pre-Service Science Teacher Workshop. University of Wyoming College of Education. Laramie, Wyoming.
- Ogle, L. R. (2005, September). *Mission to the red planet*. Pre-Service Science Teacher Workshop. University of Wyoming College of Education. Laramie, Wyoming.
- Ogle, L. R. (2005, September). *Reasons for the seasons*. Alpine School District Science Teacher Workshop. Orem, Utah.
- Ogle, L. R. (2005, August). *Hubble deep field*. Secondary Science Institute Partnership. Salt Lake City, Utah.
- Ogle, L. R. (2005, August). *Solar system activities*. Science Institute Partnership. Salt Lake City, Utah.
- Ogle, L. R. (2005, July). *Astrobiology*. NASA Explorer Schools Astrobiology Workshop. Ames Research Center, California.
- Ogle, L. R. (2005, June). *Solar system activities*. Utah Aerospace Education Foundation Teacher Workshop. Clearfield, Utah.
- Ogle, L. R. (2005, June). *Deep space network*. Utah Aerospace Education Foundation Teacher Workshop. Clearfield, Utah.
- Ogle, L. R. (2005, June). *Living and working in space*. . Utah Aerospace Education Foundation Teacher Workshop. Clearfield, Utah.
- Ogle, L. R. (2005, June). *Electromagnetic spectrum activities*. . Utah Aerospace Education Foundation Teacher Workshop. Clearfield, Utah.
- Ogle, L. R. (2005, April). *Aeronautics*. Hill Aerospace Museum Teacher Workshop. Hill Air Force Base, Utah.
- Ogle, L. R. (2005, April). *Mission to the red planet*. Hill Aerospace Museum Teacher Workshop. Hill Air Force Base, Utah.
- Ogle, L. R. (2004, June). *Aeronautics*. Rocky Mountain NASA Space Grant Consortium. Roy, Utah.
- Ogle, L. R. (2004, June). *Hubble deep field*. Rocky Mountain NASA Space Grant Consortium. Roy, Utah.
- Ogle, L. R. (2004, April). *Aeronautics*. Aerospace Museum Teacher Workshop. Roy, Utah.

Ogle, L. R. (2004, June). *Light, color, and sound*. Rocky Mountain NASA Space Grant Consortium, Roy, Utah.

Work or Professional Experiences

Sam Houston State University	Assistant Professor Curriculum & Instruction Tenure Track	1/16/12 to Present
Penn State University	Adjunct Faculty Aerospace Education Service Project (NASA)	8/2007 to 1/2012
Oklahoma State University	Adjunct Faculty Aerospace Education Service Project (NASA)	2/2004 to 8/2007
Cypress-Fairbanks ISD	Classroom Teacher High School	8/2003 to 1/2004
Alief ISD	Classroom Teacher High School	11/1995 to 8/2003

Teaching and Administration

SHSU Graduate Courses:

CIED 5384 Curricular Trends for Classroom Teachers
CIED 5394 Assessment for Learning

Department of Curriculum & Instruction Undergraduate Courses:

CIEE 3323 Curricular for Intermediate Grades
CIEE 4384 Assessment of Student Learning
CIEE 4375 Technology Instruction at the Mid-Level
CIEE 3374 Human Growth and Learning
CIEE 4335 Science Instruction in Elementary Grades
CISE 3384 The Teaching Profession
CISE 4364 Methods Teaching in Secondary Schools
CISE 4374 Human Growth and Learning
CISE 4377 Assessment of Student Learning in Secondary Schools
CISE 4378 Content Literacy
CISE 4394 Creating Environments for Learning in Secondary Schools

Other Competencies

Reviewer

- Application Reviewer for *Space Foundation's Teacher Liaison Program* 2015 to Present
- Proposal Reviewer for Science Teachers Association of Texas's Conference for the Advancement of Science Teaching 2016

- Reviewer, Texas Parks and Wildlife Department, Johnson, S. (2013). *Texas Aquatic Science Teacher Guide* [Curriculum for Aquatic Science]. https://tpwd.texas.gov/publications/learning/aquaticscience/teacher_guide.pdf

Masters Theses Capstone Reviewer – SHSU

- Crownson, T. (April 2016). Calculator use in 5th and 6th grade: Pro or con?
- Kennedy, A.G. (April 2016). The use of social media networks in the hiring process of public school professionals.
- Maguire, K.A. (April 2016). Matching learning styles to teaching strategies: An instructional road map.
- O'Donnell, J.G. (April 2016). Teacher attitudes and beliefs about social collaboration technology in the secondary classroom.
- Pattillo, K. (April 2016). The effects of state assessments and teacher turnover in elementary schools in the last five years.

Service

	Department	
Secondary Education Program Coordinator	SHSU – Curriculum & Instruction	2012 to Present
SHSU Common Reader Committee	SHSU – University wide	2015 to 2016
Graduate Program Committee	SHSU – Curriculum & Instruction	2012 to 2015
Professional Development Committee	SHSU – Curriculum & Instruction	2014 to 2015
Study Abroad Committee	SHSU – Curriculum & Instruction	2013 to 2015
Travel Policy Committee	SHSU – Curriculum & Instruction	2014
Graduate Appeals Committee	SHSU – College of Education	2015 to Present
Bring'em Back Kats Committee	SHSU – College of Education	2014 to Present
Assessment Committee	SHSU – College of Education	2013 to 2015
Community-Based Learning Committee	SHSU – College of Education	2014 to 2015
NSTA SPA NCATE Committee	SHSU – College of Education	2013 to 2015
Teacher Professional Development Committee	Aerospace Education Services Project Penn State – NASA AESP Contract	2008 to 2009

Community Service

Education Advisor – Space Foundation	2008 to Present
Education Advisor – Bryan Rotary Field of Valor Committee	2013 to Present
Education Advisor – George H.W. Bush Presidential Library & Museum	2006 to Present
Civil Air Patrol Aerospace Education Officer (Rank: Major)	2010 to Present
Texas Association for Environmental Educators – Board Member	2008 to 2016
Texas Association for Environmental Educators – Planning Committee; Texas Certified Environmental Educator Committee	2009 to Present
Texas Environmental Education Advisory Committee	2006 to 2014, 2016 to Present

Honors and Awards

American Institute of Aeronautics and Astronautics- Women in Aerospace (Nominated)		2016
Earth SySTEM Ambassadors	NASA – Goddard Space Flight Center	2015
Major General Jeanne M. Holm Civil Air Patrol Aerospace Officer of the Year Award (Nominated)	Civil Air Patrol	2015
Dr. Wendell G. Mohling Outstanding Aerospace Educator Award (Nominated)	National Science Teachers Association	2015
Frank G. Brewer, Jr. Civil Air Patrol Memorial Aerospace Award	Civil Air Patrol	2014
Solar System Ambassador	NASA - Jet Propulsion Lab	2013
ACE Researcher	Sam Houston State University	2013
Brigadier General Charles E. “Chuck” Yeager Aerospace Education Achievement	Civil Air Patrol	2011
Group Achievement Award for Summer of Innovation	NASA – Johnson Space Center	2011
Teacher Liaison	Space Foundation	2008
Campus Teacher of the Year	Alief ISD	2000

Professional Memberships

National Science Teacher Association
American Institute of Aeronautics and Astronautics
Texas Association of Environmental Educators
Phi Delta Kappa
Delta Kappa Gamma Society