Lesia Lennex, Ed.D.

Selected works 2012 - 2018

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# Current Position

 **2012- current** Professor of Education, Morehead State University, Morehead, Kentucky

**Work Experience**

## 2001-2012 Associate Professor of Education, Morehead State University, Morehead, Kentucky

## 1996-2001 Assistant Professor of Education, Morehead State University, Morehead, Kentucky

## 1993-1995 Graduate Teaching Assistant, University of Tennessee, Knoxville, Cultural Studies

## Fall 1995 Instructor of Education, Knoxville College, Knoxville, TN

## 1989-1993 Science Teacher all high school science courses, Oakdale School, Oakdale, TN

## 1988-1989 American History Teacher, Okeechobee Middle School, Okeechobee, FL

## 1987-1993 Adjunct Instructor American History, Roane State Community College

## Interests

Instructional technology, anthropology, educational anthropology, curriculum & instruction, science education, ethnobotany, social studies education

**Degrees**

1995           Ed.D., Curriculum & Instruction social studies, botany, University of Tennessee, Knoxville, Tennessee, United States. Dissertation: Instructional strategies for teaching about culture in grades 6-8

1988           M.S., Curriculum & Instruction social studies, anthropology, University of Tennessee, Knoxville, Tennessee, United States

1986           B.A., Anthropology, University of Tennessee, Knoxville, Tennessee, United States

1985           A.S., Biology, Roane State Community College, Harriman, Tennessee, United States

# Professional Licensures & Certifications

2016           Master Reviewer P-16, Quality Matters

2008           Kentucky Teaching License, EPSB

2003           Tennessee Teaching License, Tennessee Teaching Licensure

1998           Board of Examiners, EPSB

# Honors

2018        Senate Recognition for Undergraduate Research, State of Kentucky Senate

2018 Interim Director Center for Environmental Education, Morehead State University

2018 Chair Science SIG, Society for Information Technology and Teacher Education

2017        Co-Chair Science SIG, Society for Information Technology and Teacher Education

2017 Scholarship and Student Engagement featured Faculty, College of Education, 2016- 2017, College of Education, Morehead State University

2015         Texas Association for Gifted and Talented Legacy Book Awards, Texas Association for the Gifted & Talented (TAGT)

2012-13    Distinguished Researcher, Morehead State University

2008-14   Chair Information Technology Education SIG, Society for Information Technology and Teacher Education

2002-current Chair Secondary Education, College of Education, Morehead State University

# Memberships

## 2012 - Ongoing

Professional and Organizational Development

Kentucky Association for Gifted Education

## 2010 - Ongoing

National Science Teachers Association

Kentucky Science Teachers Association

## 2007 - Ongoing

Association for Educational Communications and Technology

International Society for Technology Education

## 1998 - Ongoing

Association for the Advancement of Computing Education

## 1997 - Ongoing

Mid-South Research Association

## Poster Presentation

### Completed/Published

Elswick, J., Lennex, L., & Reefer, A. H. (2018, February). *6th -12th Grades Engineering Project: Turbine Design*. *Posters at the Capitol*. Frankfort, KY: Murray State University. <http://digitalcommons.murraystate.edu/postersatthecapitol/>

Elswick, J., & Lennex, L. (2017, March). *Technology Use by Chemistry and Physics Teachers in Kentucky*. *Posters at the Capital*. Frankfort, KY: Council on Undergraduate Research. <http://digitalcommons.murraystate.edu/postersatthecapitol/2017>

Elswick, J., & Lennex, L. (2017, April). *3D Engineering for Secondary Education*. *Celebration of Student Scholarship*. Morehead, KY: Research and Sponsored Programs.

## Presentations

Lennex, L., Reefer, A. H., & Elswick, J. (2018, March). *Engineering Creativity Among Grades 6-12: Hydropower Design*. *Society for Information Technology and Teacher Education*. Washington, D.C.: AACE. (peer-reviewed)

Eguchi, A., Beaudin, L., Shah, M., Altan, T., Corbat, J., Lennex, L., Foster, A. & Petrovich, Jr., M. (2018). Emergent Pedagogies – What is an Emerging Technology? The SITE Community’s Perspective. (2018, March). *SITE 2018 Presentation Panels (a Series of Three Panels) What is an Emerging Technology?  The SITE Community's Perspective*. *Society for Information Technology and Teacher Education*. Washington, D.C.: AACE. (peer-reviewed)

Lennex, L., & Elswick, J. (2018, May). *New Technologies and How to Use Them: 3D and Makerspaces Demystified*. *Pedagogicon*. Richmond, KY: Council on Post-Secondary Education. \*\*This presentation was solicited to submit for peer-reviewed publication to PRISM, Eastern Kentucky University regional engagement publication. The manuscript is in progress Winter 2018. (editorially-reviewed)

Lennex, L., & Elswick, J. (2018, February). *The Awesome Art of Engineering*. *Kentucky Association of Gifted Educators*. Lexington, KY: KAGE.

Nettleton, K. F., & Lennex, L. (2016, April). *Hit the Ground Running: Teaching in the 21st Century*. *Professional Development School Conference*. Orlando, FL: Professional Development School Association.

Reefer, A. H., Lennex, L., & Elswick, J. (2017, September). *Turbine Engineer: E-STEM Lesson*. *Kentucky Association of Environmental Educators*. Gilbertsville, KY: KAEE. <https://www.kaee.org/conference.html>

Lennex, L., & Perrin, A. (2016, March). *Technology in Kentucky Social Studies Classrooms*. *Society for Information Technology and Teacher Education*. Savannah, GA: Association for Advancement in Computing Education.

Lennex, L., & Elswick, J. (2017, November). *3D! Part 2*. *College of Education presentation*. Morehead, KY: COE. <https://llennex.wixsite.com/kage2017/practice>

Lennex, L., & Elswick, J. (2017, November). *3D! Part 1*. *College of Education presentation*. Morehead, KY: COE. <https://llennex.wixsite.com/kage2017/resources>

Lennex, L. (2017, October). *Environmental Science Watershed Activity Day*. *Center For Environmental Education*. Morehead, KY: MSU. For the entire eighth grade class at RCMS, Dr. Lennex guided the collection and interpretation of creek chemistry as part of overall water health. Additionally, she identified the occasional macro-invertebrate.

Lennex, L., & Elswick, J. (2017, March). *Technology Use by Chemistry and Physics Teachers in Kentucky*. *Society for Information Technology and Teacher Education*. Austin, TX: AACE.

Lennex, L., & Elswick, J. (2017, February). *3D Engineering Design for Middle and High School*. *Kentucky Association of Gifted Educators*. Lexington, KY: KAGE.

Lennex, L., & Elswick, J. (2017, February). *3D Engineering Design for Middle and High School*. *Kentucky Association for Gifted Education*. Lexington, KY: KAGE. <https://llennex.wixsite.com/kage2017>

Elswick, J., & Lennex, L. (2017, March). *Grades 6-12 Engineering Project: Turbine Design*. *Society for Information Technology and Teacher Education*. Austin, TX: AACE.

## Proceedings/ Publications

Reefer, A. H., Lennex, L., & Elswick, J. (2017). Turbine Engineer: E-STEM Lesson. In *Kentucky Association of Environmental Educators*. https://scholarworks.moreheadstate.edu/dept\_middlegrades\_2nded/3/: Morehead State University, ScholarWorks. <https://scholarworks.moreheadstate.edu/dept_middlegrades_2nded/3/>

Lennex, L., and Elswick, J., (2018). "Art of Miniatures - KAGE 2018" *Department of Middle Grades and Secondary Education Research & Publication Archives*. 7.
<https://scholarworks.moreheadstate.edu/dept_middlegrades_2nded/7>

Lennex, L. & Elswick, J. (2018). Introduction to 3D Engineering Through Scale Models. In E. Langran & J. Borup (Eds.), Proceedings of Society for Information Technology & Teacher Education International Conference 2018 (pp. 1266-1268). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE). (peer-reviewed)

Reefer, A. H., Lennex, L., & Elswick, J. (2017). Turbine Engineer: E-STEM Lesson. In *Kentucky Association of Environmental Educators*. https://scholarworks.moreheadstate.edu/dept\_middlegrades\_2nded/3/: Morehead State University, ScholarWorks. <https://scholarworks.moreheadstate.edu/dept_middlegrades_2nded/3/>

Lennex, L., & Elswick, J. (2017). 3D Modeling as a Teaching Tool for Engineering and Design. In *Kentucky Association of Gifted Educators*. Morehead, KY: https://scholarworks.moreheadstate.edu/dept\_middlegrades\_2nded/6/. [Lennex, L., & Elswick, J. (2017). 3D Modeling as a Teaching Tool for Engineering and Design. In Kentucky Association of Gifted Educators. Morehead, KY: https://scholarworks.moreheadstate.edu/dept\_middlegrades\_2nded/6/.](file:///Users/msuuser/Downloads/Lennex%2C%20L.%2C%20%26%20Elswick%2C%20J.%20%282017%29.%203D%20Modeling%20as%20a%20Teaching%20Tool%20for%20Engineering%20and%20Design.%20In%20Kentucky%20Association%20of%20Gifted%20Educators.%20Morehead%2C%20KY%3A%20https%3A/scholarworks.moreheadstate.edu/dept_middlegrades_2nded/6)

Elswick, J., Lennex, L., Haight, A. D., & Chapman, H. (2017). Grades 6-12 Engineering Project: Turbine Design. In *Society for Information Technology and Teacher Education* (pp. 2092-2096). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Elswick, J., & Lennex, L. (2017). Technology Use by Chemistry and Physics Teachers in Kentucky. In *Society for Information Technology and Teacher Education* (pp. 1487-1489). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Elswick, J., Lennex, L., Haight, A. D., & Chapman, H. (2017). Grades 6-12 Engineering Project: Turbine Design. In *Society for Information Technology and Teacher Education* (pp. 2092-2096). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Nettleton, Kimberely Fletcher, and Lesia C. Lennex (2015). *Cases on Instructional Technology in Gifted and Talented Education*. Hershey PA: Information Science Reference.

Nettleton, Kimberely Fletcher, and Lesia C. Lennex. *Cases on 3D Technology Application and Integration in Education*. Hershey PA: Information Science Reference, 2013

Lennex, Lesia C., and Kimberely Fletcher Nettleton (2012). *Cases on Inquiry through Instructional Technology in Math and Science*. Hershey, PA: Information Science Reference.

**In Progress**

Lennex, L., & Elswick, J. (2018, Winter). *New Technologies and How to Use Them: 3D and Makerspaces Demystified*. *Pedagogicon*. Richmond, KY: Council on Post-Secondary Education.

**Professional Development**

## Spring 2018 – Fall 2018

 Quality Matters Master Reviewer re-certification, online QM

 Quality Matters Rubric Update and Certification, online QM

 EdTPA training and introduction, Morehead State University

## Spring 2017 - Fall 2017

Quality Matters CPE Accelerated Reviewer Course for QM HE Peer Reviewers, Second Edition, Morehead, Kentucky

Bluegrass Academic Leadership Academy Education Day with the General Assembly, Frankfort, Kentucky

Quality Matters K-12 Accelerated Reviewer Course for Higher Education, Morehead, Kentucky

Quality Matters Reviewer Course for Program Reviews (RCPR), Morehead, Kentucky

Chromebook Training, Morehead, Kentucky, 2 hours

Tips, Tricks, and Best Practices for Teachers Using Chromebooks and Other Devices, Morehead, Kentucky, 0.5 hours

Top 10 Free Google Chromebook Apps and Extensions for Classroom Use, Morehead, Kentucky, 0.5 hours

Creating Easy, Fun, and Personalized Learning, Morehead, Kentucky, 0.5 hours

Inspiring Creative Expressionism with Chromebooks and Other Mobile Tools, Morehead, Kentucky, 0.5 hours

Quality Matters Master Reviewer Recertification, Morehead, Kentucky

UTeach Annual Conference, Austin, Texas

# Institutional Committees

## University

### Fall 2018 – Spring 2018

 Faculty Senate - Governance Committee, (Morehead State University) [Responsibility: Chair]

###  Faculty Senate – Chair -Elect 2019

### Fall 2017 - Fall 2017

Strategic Plan Committee: Academic Excellence, (Morehead State University) [Responsibility: Member]

### Fall 2017 - Spring 2018

Faculty Senate - Governance Committee, (Morehead State University) [Responsibility: Chair]

### Spring 2017 - Spring 2017

Faculty Rights & Responsibilities Committee, (Morehead State University) [Responsibility: Member]

### Spring 2017 - Ongoing

Teacher Education Dispositions Committee- Mathematics, (Morehead State University) [Responsibility: Member]

### Fall 2015 - Spring 2017

Research & Creative Productions, (Morehead State University) [Responsibility: Other]

### Fall 2015 - Ongoing

Title IX: Sexual Harassment, (Morehead State University) [Responsibility: Member]

### Fall 2008 - Ongoing

Intellectual Property, (Morehead State University) [Responsibility: Member]

## College

### Spring 2016 - Ongoing

CAEP Tagging Team, (College of Education) [Responsibility: Member]

### Fall 2015 - Ongoing

College Tenure Committee, (College of Education) [Responsibility: Chair]

### Fall 2013 - Ongoing

Ed.D. Advisory Council, (College of Education) [Responsibility: Member]

## Department

### Spring 2017 - Spring 2017

Promotion Committee, (Earth and Space Sciences) [Responsibility: Member]

### Fall 2013 - Ongoing

Tenure/Retention Committee, (Middle Grades and Secondary Education) [Responsibility: Member]

# Other Institutional Service

## Fall 2017 – Spring 2018

3D Presentation of University Housing, (Morehead State University)

## Spring 2017 - Spring 2017

Interview Panel Craft Academy, (Morehead State University)

SOAR, (College of Education)

## Fall 2015 – Fall 2017

MSUTeach Steering Committee, (Morehead State University)

## Fall 2008 - Ongoing

Tenure and retention committee, (Middle Grades and Secondary Education)

# Professional Service

## Fall 2017 - Ongoing

National Technology Leadership Initiative Fellowship, Association for Science Teacher Education

## Spring 2017 - Spring 2017

Research Highlights in Technology and Teacher Education, Society for Information Technology and Teacher Education

## Fall 2015 - Ongoing

Peer Reviewer, National Association Professional Development Schools

## Spring 2014 - Ongoing

Program Reviewer Environmental Education, EPSB

## Spring 2009 - Ongoing

Peer reviewer conference, Conference on Ethnographic and Qualitative Research

## Fall 2008 - Ongoing

Peer reviewer Southern Social Studies journal, Kentucky Council for Social Studies

## Fall 2004 - Ongoing

Peer reviewer for international conference, Society for Information Technology and Teacher Education

# Community Service

## Spring 2017 - Ongoing

National Association of Miniature Enthusiasts Board of Directors, National Association of Miniature Enthusiasts

# Consulting

# Spring 2018-Spring 2018

Quality Matters, 20 hours

Quality Matters, 15 hours

Quality Matters, 15 hours

Quality Matters, 20 hours

Quality Matters, 15 hours

## Fall 2017 - Fall 2017

Quality Matters, 20 hours

Quality Matters, 15 hours

Quality Matters, 15 hours

## Spring 2017 - Spring 2017

Quality Matters, 15 hours

Quality Matters, 20 hours

Quality Matters, 15 hours

Quality Matters, 20 hours

## Spring 2017 - Fall 2017

Quality Matters, 20 hours

## Spring 2012 - Spring 2017

Quality Matters, 30 hours

# Teaching Philosophy

Vygotsky had it right. Children, and adults as well, learn through active association with artifacts. The artifacts in question for my courses are the P-12 curriculum and instructional technology. How is this best achieved? --through personal interaction and immersion with the artifacts. Students constructively learn the skills necessary to build curriculum and to manipulate instructional technology. As undergraduates they build on these skills through the scaffolding of projects, peer teaching, and field experiences. As graduates they look to their own courses in a reflective way to best determine the needs for their culture of learners. In this way all students will achieve to the best of their ability, and beyond that ability will begin to see the nuances of curriculum/ instructional technology as the basis for wonderful learning of their P-12 students.

# Grants

## Funded - In Progress

3D Printers for College of Education, Funded by Morehead State University (April 10, 2017 - April 22, 2019), awarded February 15, 2017 ($8,800.00), Funded - In Progress, Spring 2017, PI Lesia Lennex

Schack, Edna, Dobranski, Michael, Yess, Capp, Eisenhour, David, and Lennex, Lesia (Other:25%) Morehead State University Noyce Scholar Program: Secondary Teachers of Mathematics and Science in Rural Districts, *National Science Foundation* (August 1, 2017-August 1, 2022 USD 1.2 million)