

Leslie A. Potter, M.S.

Professional Preparation

Iowa State University, Ames, Iowa	B.S. in Industrial Engineering	1991
The Pennsylvania State University	M.S. in Industrial Engineering	1996

Appointments

2020 – present	Teaching Professor, Department of Industrial and Manufacturing Systems Engineering Department (IMSE), Iowa State University (ISU), Ames, IA
2019 – 2020	Associate Teaching Professor, IMSE, ISU, Ames, IA
2008 – 2019	Senior Lecturer, IMSE, ISU, Ames, IA
2001 – 2008	Lecturer, IMSE, ISU, Ames, IA
1999 – 2000	Adjunct Instructor, Department of Technology, University of Northern Iowa, Cedar Falls, IA
1997 – 1998	Supply Management Engineer, John Deere Waterloo Works, Waterloo, IA
1996 – 1997	Transaxle Assembly Supervisor, John Deere Waterloo Works, Waterloo, IA
1993 – 1995	Quality Engineer and Quality Engineering Supervisor, John Deere Waterloo Works, Waterloo, IA
1992 – 1993	Manufacturing Engineer, John Deere Waterloo Works, Waterloo, IA
1991 – 1992	Project Engineer, John Deere Waterloo Works, Waterloo, IA

Textbooks

1. *Technical Writing for Engineers & Scientists 4th Edition*, by Finkelstein, Aune, and Potter, ©2023, ISBN13: 9780073534930

Recent Papers

1. Potter, L., Kremer, G., Scallon, J., Swegle, D., and Gould, T., "Establishing a Link between Electrodermal Activity and Classroom Engagement," Accepted for 2019 ***Institute of Industrial and Systems Engineers Annual Conference and Expo***, Orlando, Florida (2019).
2. Gregory, S., Bastias, A., Molenaar, K., Madson, K., Franz, B., Potter, L., and G. Kremer, "Assessing the Influence of Manufacturing Flexibility on Facility Construction Costs," ***Proceedings of the IISE Annual Conference***, Orlando, Florida (2019).
3. Potter L., Stone, R., and D. Popejoy-Sheriff, "Increasing Graduate School Enrollment of Female Industrial Engineers through CUREs," ***Proceedings of the ASEE Annual Conference***, Tampa, Florida (2019).
4. Potter, L., Raje, S., Oftedal, J., Okudan Kremer, G., Bastias, A., Molenaar, K., Madson, K., and B. Franz, "Developing a TRIZ-based Design for Flexibility Tool for Manufacturing Facilities," ***Proceedings of the IISE Annual Conference***, Orlando, Florida (2019).
5. Jacobson, B. P., Dorneich, M. C., and Potter, L.A. (2018). "Impact of Lecture Video Acceleration in a Flipped Introductory Engineering Course," ***International Journal of Engineering Education***, Vol. 34, No. 6, pp. 1863-1875. Available online (<https://www.ijee.ie/contents/c340618.html>).
6. Potter, L.A., Stone, R., Fyock, A., Popejoy-Sheriff, D.F., (2018). "Implementing a Course-based Undergraduate Research Experience (CURE) into an IE Curriculum," ***2018 ASEE Annual Conference and Exposition***, Salt Lake City, UT, June 2018.
7. Fyock, A., Potter, L., Stone, R., Popejoy-Sheriff, D. (2018). "Filling the Graduate Pipeline Via Course-Based Undergraduate Research Experiences (CUREs)," ***2018 Institute of Industrial and Systems Engineers Annual Conference and Expo***, Orlando, FL, May, 2018.
8. Potter, L. and Jacobson, B. (2015). "Lessons Learned from Flipping a First-Year Industrial Engineering Course," ***2015 Institute of Industrial and Systems Engineers Annual***

Conference and Expo, Nashville, TN. Available online

(<http://search.proquest.com/openview/8733f23afcd25dc199b54bcaa91b4023/1?pq-origsite=gscholar&cbl=51908>).

9. Potter, L.A., Jackman, J.K., Min, K.J., and Search, M., (2008). "Integrating Communication and Engineering Skills in an Industrial Engineering Curriculum Based on Outcome Assessment Results," **Proceedings of the Institute of Industrial Engineers IERC 2008**, Vancouver, British Columbia, May 2008.
10. Potter, L., Jackman, J., Min, K.J., and Search, M., (2008). "A New Engineering Communications Course Based on a Professional Communication Process", **Proceedings of the 2008 ASEE National Conference**, Pittsburgh, PA, June 2008. Available online (https://works.bepress.com/leslie_potter/).
11. Peters, F., Potter, L., and Min, K.J., (2008). "Developing Students' Understanding of Global Issues through Lean Manufacturing," **Proceedings of the 38th ASEE/IEEE Frontiers in Education Conference**, Saratoga Springs, New York, October, 2008. (DOI: [10.1109/FIE.2008.4720592](https://doi.org/10.1109/FIE.2008.4720592))
12. Potter, L.A., Min, K.J., and Peters, F.E., (2007). "Effecting Improvement in an Industrial Engineering Program by Applying Outcome Assessment Results", **Proceedings of the 2007 ASEE National Conference**, Honolulu, Hawaii, June, 2007. Available online (https://works.bepress.com/leslie_potter/).

Current Outreach

- ISU SWE advisor
- FTC/FLL volunteer
- Iowa Wild STEM events
- State of Iowa Science Fair

Development of Curricular Materials:

Courses Developed/Revised:

- a. Engineering Communications
- b. Introduction to Industrial Engineering
- c. Information Engineering
- d. Design and Analysis Methods for Systems Improvements

Pedagogy Applications:

- a. Team-based learning
- b. Hybrid flipped classrooms using video lectures
- c. Course-based undergraduate research

Scholarly Pursuits and Awards:

- a. **Don Grant Faculty Award for Excellence in Undergraduate Education**, Industrial and Manufacturing Systems Engineering, April 2022, April 2018, May 2010
- b. **Book of Golden Deeds** – Waverly Exchange Club, April 2022
- c. **Best Paper Award Winner – Engineering Education Division**, with Fyock, Stone, and Popejoy-Sheriff, 2018 Institute of Industrial and Systems Engineers Annual Conference, 2018.
- d. **Iowa Space Grant Consortium Curriculum Development Award**, with Dr. Rick Stone and Devna Popejoy-Sheriff, Iowa State University, 2018.
- e. **Miller Faculty Fellowship**, with Stone and Popejoy-Sheriff, Iowa State University, 2018.
- f. **Lean Teaching Award**, with Peters, 2017, Institute of Industrial and Systems Engineers Annual Conference, 2017.
- g. **Iowa Space Grant Consortium Curriculum Development Award**, with Dr. Michael Helwig, Iowa State University, 2017.
- h. **Technology Association of Iowa – Women of Innovation Finalist**, 2016.
- i. **Best Paper Nominee**, with S. Daniel, Popejoy-Sheriff, and Min, 2006 ASEE National Conference, 2006.
- j. **Best Paper Finalist**, with K.J. Min, 2005 ASEE North Midwest Regional Conference, 2005.