

Jennifer L. Lovely  
Lecturer, First Year Engineering  
Department of Chemical and Materials Engineering  
University of Kentucky

#### PROFESSIONAL PREPARATION:

University of Kentucky	Lexington, KY	Spanish	BA	2004
University of Kentucky	Lexington, KY	Biosystems Engineering	BS	2010
University of Kentucky	Lexington, KY	Biosystems & Agricultural Engineering	MS	2012
Kansas State University	Manhattan, KS	Grain Science	PhD	2016

#### APPOINTMENTS:

*Lecturer*, First Year Engineering, Department of Chemical and Materials Engineering, University of Kentucky 2016-present  
*Graduate Research Assistant*, Department of Grain Science & Industry, Kansas State University, 2013-2016  
*Student Services Coordinator*, Department of Biosystems & Agricultural Engineering, University of Kentucky 2012-2013  
*Engineer Associate*, Department of Biosystems & Agricultural Engineering, University of Kentucky, 2010-2012  
*Applications Engineer*, Alltech, Nicholasville, KY 2010

#### PRODUCTS:

Lumpp, J.K., **J.L. Lovely**, J.G. Whitney, W. Blackburn-Lynch, L.M. Letellier, D.J. Klein. 2018. Design Review Process in a First-Year Engineering Team Project Course. ASEE Conference Abstract.

Lumpp, J.K., **J.L. Lovely**, W. Blackburn-Lynch, L.M. Letellier, J.G. Whitney, K.W. Anderson. 2018. Establishing Pathways to Include Community College and Transfer Students in a First-Year Engineering Curriculum. ASEE Conference Abstract.

Lumpp, J.K., **J.L. Lovely**, J.G. Whitney, W. Blackburn-Lynch, L.M. Letellier, N.F. Moore, D.J. Klein. Instructional Use of Computers in a Hands-on Programming Course for First-Year Engineering Students. 2018. ASEE Conference Abstract.

Lumpp, J. K., W. C. Blackburn-Lynch, D. J. Klein, L. M. Letellier, **J. L. Lovely**, N. F. Moore, J. G. Whitney. 2018. Instrumentation and Measurement in a First-Year Engineering Program. *IEEE Instrumentation & Measurement Magazine*, 21(3): 20-35

**Lovely, J. L.**, Bh. Subramanyam, R. Mahroof. 2017. A dynamic model for predicting survival of *Tribolium castaneum* adults to elevated temperatures during heat treatment of grain-processing facilities. ASABE Annual International Meeting, 2017, Spokane, WA.\*\*

**Frederick, J. L.,** Bh. Subramanyam. 2016. Influence of temperature and dosage on efficacy of a diatomaceous earth formulation against *Tribolium castaneum* adults. *Journal of Stored Products Research*. 69: 86-90.

**Frederick, J.L.,** S.P. Walker, C. Crofcheck, M. Newman, F. Payne. 2012. Evaluation of chemical additives for the separation and recovery of bacteria from food matrices. *Biological Engineering Transactions*. 6(2): 105-115.

**Frederick, J. L.,** Bh. Subramanyam, H. Dogan. 2014. Evaluation of a heat treatment based on trapping data, temperature profiles, and bioassays. *Proceedings of the 11th International Working Conference on Stored Product Protection, Chiang Mai, Thailand.*

Scheff, D. S., **Frederick, J. L.,** Dogan, H., Ambrose, K. R. P. The effect of temperature induced stress cracks on the processing quality of yellow dent corn. *AACC Annual Meeting, 2014, Providence, RI. Poster award from Corn Refiners Association \$200*

**Frederick, J.L.,** Bh. Subramanyam. Review of industrial heat treatments. *Kansas State University Research Forum, 2014, Manhattan, KS. 2nd place winner in Agricultural Sciences Session \$250*

#### **SYNERGISTIC ACTIVITIES:**

EGR 215 became an approved course in the Spring of 2018, which officially combined EGR 112 and EGR 103 for transfer students.

Spring and Fall '18, coordinated with undergraduate TAs to grade assignments for all sections of EGR 101, 102, 103, and 215, and ensured grades were posted and available to instructors in time for mid-term and final grading periods. I helped develop a schedule for graduate and undergraduate TAs for both Spring and Fall semesters for all sections of EGR 101, 102, 103, and 215.